



Environmental Monitoring Report

PUBLIC

Semestral Report: October 2023 – March 2024
June 2024

India: Rajasthan Secondary Towns Development Sector Project

Part 1 of 3: Main Report (Pages 1-186) and Appendices 1 - 3

Prepared by Rajasthan Urban Drinking Water Sewerage and Infrastructure Corporation Limited, Government of Rajasthan for the Asian Development Bank (ADB).

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Asian Development Bank



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No. F3 (301)(87)/RUIDP/PMU/Env/ 2622

Date: 23.05.2024

Country Director,
India Resident Mission,
Asian Development Bank,
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Chanakyapuri, New Delhi- 110021

Sub: Submission of Semi-annual Environmental Monitoring Report for the period October 2023 to March 2024 for RUIDP Phase-IV Tranche-I (RSTDSP)

Dear Sir,

In the matter of above cited subject, we are submitting herewith Semi-annual Environmental Monitoring Report (SEMR) for the period of October 2023 to March 2024 for Rajasthan Secondary Towns Development Sector Project (RSTDSP) for your perusal and approval.

Kindly send approval and link of website where this SEMR will be disclosed.

Enclosure - As above

(Dr. Hemant Kumar Sharma)
Additional Project Director-II

No. F3 (301)(87)/RUIDP/PMU/Env/ 2623-24

Date: 23.05.2024

Copy to following for information and necessary action-

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2. Mr. Nilesh Kumar, Environmental Safeguard Specialist, ADB, INRW, New Delhi

(Kapil Gupta)
Deputy Project Director (T)

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Document certified by HEMANT KUMAR SHARMA <hksadb@gmail.com>.

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Semi-Annual Environmental Monitoring Report

PROJECT NO: 42267-031
Loan No.: 3972-IND

SFG Log: 6106

India: Rajasthan Secondary Towns Development Sector Project (RSTDSP)

Implementation of Environmental Management and Monitoring Plan

Reporting Period: October 2023 to March 2024

Rajasthan Urban Drinking Water, Sewerage and Infrastructure Corporation- External Aided Project (RUDSICO-EAP)

{Erstwhile Rajasthan Urban Infrastructure Development Program (RUIDP)}

Prepared by: Local Self Government Department, Govt. of Rajasthan

ABBREVIATIONS

ACM	–	Asbestos Containing Materials
ADB	–	Asian Development Bank
CMSC	–	Construction Management and Supervision Consultant
CPCB	–	Central Pollution Control Board
CTE	–	Consent to Establish
CTO	–	Consent to Operate
DI	–	Ductile Iron (Pipe)
DWC	–	Double Walled Corrugated (Pipe)
EA	–	Executing Agency
EHS	–	Environmental Health & Safety
EMP	–	Environmental Management Plan;
ESS	–	Environmental Safeguard Specialist
FSSM	–	Faecal Sludge and Septage Management
FSTP	–	Faecal Sludge Treatment Plant
GoR	–	Government of Rajasthan
HDPE	–	High Density Poly Ethylene
IA	–	Implementing Agency
IEC	–	Information, Education and Communication
IEE	–	Initial Environmental Examination;
KLD	–	Kilolitre/Day
LSGD	–	Local Self Government Department
MLD	–	Million Liters per Day
NOC	–	No Objection Certificate
NTP	–	Notice to Proceed
PCC	–	Plain Cement Concrete
PHED	–	Public Health Engineering Department
PIU	–	Project Implementation Unit;
PMCBC	–	Project Management and Capacity Building Consultant
PMU	–	Project Management Unit
PO	–	Project Officer
RoW	–	Right of Way
RPCB/RSPCB	–	Rajasthan State Pollution Control Board
RSTDSP	–	Rajasthan Secondary Towns Development Sector Project
RUIDP	–	Rajasthan Urban Infrastructure Development Project
(RUDSICO-EAP)	–	Rajasthan Urban Drinking Water, Sewerage And Infrastructure Corporation- External Aided Project
SEMP	–	Site Specific Environment Management Plans
SIP	–	Service Improvement Plan
SBR	–	Sequential Batch Reactor
SPM	–	Suspended Particulate Matters
SPS (ADB)	–	Safeguard Policy Statement, 2009
SPS	–	Sewage Pumping Station
SSO	–	Safeguard and Safety Officer
STP	–	Sewage Treatment Plant
ULB	–	Urban Local Body
WTP	–	Water Treatment Plant

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Executive Summary

1. Rajasthan Secondary Towns Development Sector Project (RSTDSP), the fourth phase of investment projects financed by Asian Development Bank (ADB) and implemented by the Rajasthan Urban Drinking Water Sewerage and Infrastructure Corporation Limited (RUDSICO), previously known as Rajasthan Urban Infrastructure Development Project (RUIDP). RSTDSP will support the ongoing efforts of the Government of Rajasthan towards improving the water and wastewater services in about 14 towns.¹ RSTDSP seeks to improve water supply and sewerage (WSS) services in secondary towns with populations between 20,000-115,000 through a sector loan modality. The project is aligned with the following impact(s): (i) access to potable, affordable, reliable, equitable, and environmentally sustainable drinking water supply in all urban areas of Rajasthan improved; and (ii) health status of urban population, especially the poor and underprivileged improved. The policy-based loan will provide financial support to the state government to implement reforms and the project loan will introduce innovations in water supply and wastewater management, such as continuous pressurised water supply, and long-term O&M (10 years) embedded construction contracts for nonrevenue water (NRW) reduction and sustainability of operations, latest standards of treatment of waste water and reuse of treated effluent etc.
2. The desired output of this sector project are: 1) Water supply infrastructure in project towns improved with climate-resilient and inclusive features. By 2027, 2) Sanitation systems in project towns improved with climate-resilient, cost-effective and inclusive features.² By 2027, 3) Institutional and human capacities strengthened for service improvements, gender equality and sustainability.
3. As per preliminary examination and scope of works impact assessment for all the subprojects has been done and no significant impacts are envisaged as per ADB SPS 2009 and therefore all the subprojects under RSTDSP are categorized in Environmental Category B and Initial Environmental Examinations (IEEs) are prepared for all the subprojects accordingly. Environmental management and monitoring plan has been prepared for all the sub projects and included in respective draft IEEs and attached with bid documents of the contracts. Draft IEEs have

¹ The project towns under consideration for the sector loan are: Abu Road, Banswara, Didwana, Fatehpur, Khetri, Kuchaman, Ladnu, Laxmangarh, Makrana, Mandawa, Pratapgarh, Ratangarh, Sardarshahar and Sirahi. Out of these towns, Khetri and Mandawa are heritage towns.

² Climate resilient and inclusive features included are: improvements in the distribution system to reduce losses; rainfall water harvesting; energy-efficient pumps; solar panels at project facilities; pressure control mechanisms in the water system to help avoid losses through pipe bursts; and wastewater reuse for productive uses.

been updated as per change in scope of works or change in locations; and submitted to ADB for approval.

4. This Semi-Annual Environmental Monitoring Report for the period October 2023 to March 2024; analyses the project performance in respect to environmental safeguards and documents/monitors compliance status with National/ State/ Local Statutory Environmental Requirements along with compliance to approved IEE and EMPs as per ADB SPS 2009.

5. Up to March 2024, contracts for all 14 project towns have been awarded (Ratangarh, Laxmangarh and Fatehpur under single contract as package, no. RSTDIP/RTG-FTP-LXG/01, Sardarshahar – package no. RSTDIP/SRD/01, Abu Road and Sirohi under single contract as package no. RSTDIP/SHR-ABR/01, Pratapgarh; package no. RSTDIP/PRT/01, Banswara; package no. RSTDIP/BNS/04, Khetri; package no. RSTDIP/KTR/03, Mandawa; package no. RSTDIP/MDW/03, Kuchaman; package no. RSTDIP/KMN/02, Didwana, Makrana and Ladnu under single contract as package no. RSTDIP/LDN-DID-MKN/01. Work has started in all 14 towns (Ratangarh, Laxmangarh, Fatehpur, Sardarshahar, Abu Road, Sirohi, Pratapgarh, Banswara, Khetri, Mandawa, Kuchaman, Ladnu, Makrana and Didwana).

6. **FSSM works:** Contract for Faecal Sludge and Septage Management (FSSM) subproject has been awarded for one package of four towns, namely, Bandikui, Shahpura, Neem ka Thana and Jobner to M/s Genius-LNA JV and another combined FSSM package of 9 towns, namely, Bari, Deeg, Pilibanga-Suratgarh, Shahpura- Bhilwara, Bhinder-Kanor, Gangapur, Bhawani Mandi, Dausa and Tijara to M/s MTS-EIEPL JV. Contractor is mobilized in the both packages of FSTP towns and a physical progress of about 60% (for one package of four towns) and 48% (for one package of nine towns) has been achieved up to the reporting period and major work undertaken during the reporting period being construction of boundary wall of FSTPs.

7. IEEs of all 14 project towns have been approved by ADB. IEEs were further updated due to amendments in project scope or location and submitted to ADB, approved by ADB and uploaded on ADB and RUDSICO_EAP portals. However, the Service Improvement Plan (SIP) for the all subproject towns is approved and IEE of all 14 subproject towns Ratangarh, Laxmangarh, Fatehpur, Sardarshahar, Abu Road, Sirohi, Pratapgarh, Banswara, Kuchaman, Ladnu, Didwana, Makrana, Mandawa & Khetri are updated as per approved SIP scope and updated IEEs are approved by ADB and uploaded on ADB and RUDSICO_EAP portals.

8. During this reporting period, orientations for environmental safeguard requirements were done in 4 towns, namely, Sirohi, Abu Road, Sardarshahar and Ratangarh by CMSC-1&2 Environmental Safeguard Professional and Safeguard Support staff. Participants in these orientation programs were PIU, contractors staff, Municipal officials CMSC engineers and supervisors. Onsite trainings were also conducted in Sirohi, Abu Road, Sardarshahar and Ratangarh Towns at different work sites to contractors' site supervisors, labours and operators.

9. Contractors have submitted the Site-Specific Environment Management Plans (SEMP) in pre-construction phase of each sub project towns, which are approved and being followed in construction works. These SEMP also include Solid Waste and Spoil Management Plan, Traffic

Management Plan, Health and Safety Plans, Workers camps plans, COVID-19 prevention and control plan, Asbestos Management Plan etc.

10. Sufficient staffs in PMU, PIUs, consultants (PMCBC/CMSC) and contractor are mobilized as suggested in EARF for the effective implementation and monitoring of compliance of EMP and ADB SPS.

11. Periodical monitoring is being conducted by environmental professional/safeguard support of CMSC1 & 2 through site visits which includes public consultations, consultations with labors and contractors' staff, verification of documents and environmental monitoring for ambient air, ambient noise, water quality and soil quality analysis through third party monitoring agencies.

12. In compliance to country's legal requirements for STPs, WTPs & FSTPs; Consent to Establish (CTE) is being obtained from Rajasthan State Pollution Control Board (RSPCB) in all project towns. There are total 19 STPs and 3 WTPs proposed for new construction in all 14 towns (Trenche-I Subprojects) and CTE for all of them is obtained till this reporting period and CTO will be obtained prior to commissioning of plants. Up to March 2024, total 22 applications for CTEs for STPs and WTPs were submitted out of which 22 CTEs have been issued by RSPCB. There are existing 3 STPs proposed for upgradation and 2 WTPs proposed for rehabilitation; which will require consent to establish and consent to operate. Consent to Establish has been obtained from Rajasthan State Pollution Control Board for 3 STPs proposed for upgradation and 2 WTPs proposed for rehabilitation also. CTO of Ratangarh, Fatehpur, Sirohi & Pratapgarh towns are obtained during this reporting period.

13. CTE for recently awarded FSTP packages includes construction of 13 FSTPs under 2 clusters (Trenche-I Saving subprojects). Of these two clusters, one cluster consists 4 towns namely Bandikui, Neem ka thaana, Shahpura(Bhilwaara) and Jobner and other cluster consist 9 towns namely Bari, Deeg, Pilibanga-Suratgarh, Shahpura- Bhilwara, Bhinder-Kanor, Gangapur, Bhawani Mandi, Dausa and Tijara. CTE for these FSTPs will be required to obtain prior to construction. CTEs for 13 new FSTP will be applied before start of construction works. CTE for Dausa, Neem Ka Thana, Bari, Jobner, Bandi Kui, Deeg, Bhawani Mandi, Bhinder-Kanode & Tijara FSTPs are obtained and for Shahpura (Bhilwara), Gangapur (Bhilwara) & Pilibanga-Suratgarh are applied to RSPCB during this reporting period.

14. Under the prevailing conditions of COVID-19 pandemic in Rajasthan, RUIDP issued guidelines for COVID-19 to all contractors, in line with guidelines issued by Union and State governments. All contractors also prepared Standard Operating Procedures (SOPs) for COVID-19 and are implementing all the mitigation measures as required and instructed by State Government, Union Ministry of Health and Family Welfare and RUIDP.

15. This semi-annual environmental monitoring report presents progress of works, status of compliance of environmental safeguards requirements including legal compliance, EHS management at project sites and current practices at sites. The project (RSTDSP) is compliant with all the environmental statutory provisions of the Governments (National and Rajasthan) as well as ADB SPS 2009.

Semi-Annual Environmental Monitoring Report (October 2023 to March 2024)

1. INTRODUCTION

1. **Project Description:** Rajasthan Secondary Towns Development Sector Project (RSTDSP), the fourth phase of investment projects financed by Asian Development Bank (ADB) and implemented by the Rajasthan Urban Drinking Water Sewerage and Infrastructure Corporation Limited- External Aided Projects (RUDSICO-EAP)), previously known as Rajasthan Urban Infrastructure Development Project (RUIDP). RSTDSP will support the ongoing efforts of the Government of Rajasthan towards improving the water and wastewater services in about 14 towns.³ RSTDSP seeks to improve water supply and sewerage (WSS) services in secondary towns with populations between 20,000-115,000 through a sector loan modality. The project is aligned with the following impact(s): (i) access to potable, affordable, reliable, equitable, and environmentally sustainable drinking water supply in all urban areas of Rajasthan improved; and (ii) health status of urban population, especially the poor and under-privileged improved. The project will have the following outcome: quality, reliability, equity and sustainability of WSS services in project towns of Rajasthan improved. The investments in WSS with 10-year O&M contracts, coupled with institutional strengthening of Rajasthan Urban Drinking Water, Sewerage and Infrastructure Corporation Limited (RUDSICO) and ULBs in district headquarters, heritage towns and other market centers are expected to ensure operational sustainability and improve quality of life in project towns, including for the poor and vulnerable. The project is also expected to build resilience of communities to manage health pandemics.

2. The loan will provide financial support to the state government to implement reforms and the project loan will introduce innovations in water supply and wastewater management, such as continuous pressurised water supply, and long-term O&M (10 years) embedded construction contracts for nonrevenue water (NRW) reduction and sustainability of operations, latest standards of treatment of waste water and reuse of treated effluent etc.

³ The project towns under consideration for the sector loan are: Abu Road, Banswara, Didwana, Fatehpur, Khetri, Kuchaman, Ladnu, Laxmangarh, Makrana, Mandawa, Pratapgarh, Ratangarh, Sardarshahar and Sirohi. Of these towns, Khetri and Mandawa are heritage towns.

3. **Project Outputs:** The project will have three outputs-

Output 1: Water supply system in at least eight project towns improved. By 2027, at least eight project towns with approximately 100,000 households will have 5 (3 new and 2 rehabilitated) water treatment plants (WTPs) and 1,350 km distribution networks to provide safer, more reliable and more equitable water supply services. The systems are designed for 24-hour supply and expected to provide 24-hour supply most of the time, except during prolonged dry spells; and GOR is continuously working to augment its water supply. Water safety plans will be implemented to ensure potable water at all times, including during intermittent supply. Distribution networks follow a district metered area approach allowing the network to be hydraulically isolated so water losses can be more easily identified and resolved and nonrevenue water (NRW) targets met; and so pressures can be managed for equitable distribution. All households will have a water meter allowing for volumetric billing. The water supply improvements are expected to benefit all, including the urban poor, by reducing water collection time from other sources, which may be costly or unhygienic; and by minimizing earning losses from missed work due to waterborne diseases.

Output 2: Sanitation system in at least 13 project towns developed or improved. By 2027, at least 13 towns with approximately 103,000 households will have 19 sewage and 1 fecal sludge treatment plants, 1,300 km sewer networks, and desludging trucks for city-wide inclusive sanitation (CWIS) through a combination of onsite and sewerage solutions ensuring that everybody, including the urban poor, benefits from the improved services, better health and a cleaner and more hygienic environment. The approach is cost-effective as it (i) limits sewers to core areas with outer areas served through organized desludging and safe transportation and treatment of sludge; and (ii) prioritizes the rehabilitation of STPs to meet current effluent standards over construction of new assets. Household sewer connections are included, including for poor households living in sewered zones. As a climate adaptation measure, project consultants will provide support to ULBs in at least 5 project areas to identify users and structure agreements for wastewater reuse.

Output 3: Institutional and human capacities strengthened for sustainable service delivery, gender equality and improved public health. By 2027, the project will have strengthened the capacity and ensured readiness of project ULBs to manage water supply and/or sanitation services and recover O&M costs. The project will strengthen the skills of at least 500 staff and 500 elected representatives of 14 project ULBs in contract management to monitor contractor's performance and service levels; construct or improve an office space for new WSS divisions, and

develop ULBs' standard operating procedures for O&M. A data platform with supervisory control and data acquisition (SCADA) and geographic information system (GIS) will be established in each of the 14 project ULBs to support decision-making and efficient service delivery. The project includes capacity strengthening of RUDSICO by making its financial management system certified by an accredited institution. To promote gender equity and community awareness, the project includes an internship program in RUDSICO so that at least 500 college-age women to gain professional experience in a technical field with broader objective.

4. **Environmental category of the sub-projects:** As per preliminary examination and scope of works; impact assessment for all the subprojects has been done and no major significant impacts are envisaged as per ADB SPS 2009 and therefore all the subprojects under RSTDSP are categorized in Environmental Category B and Initial Environmental Examinations (IEEs) are prepared for all the subprojects accordingly. As per national environmental categorization (EIA Notification 2006) none of the subproject activities comes under Category A or Category B, therefore Environmental Impact Assessment or Environmental Clearance is not required for any of the subprojects under RSTDSP.

5. **Details of site personnel and/or consultants responsible for environmental management:** Out of fourteen project towns (with 09 packages), contract for all 14 sub-projects are awarded and civil work are undergoing in all towns. Necessary Orientation of the PIU, Consultants and Contractor staff is done by Social and environmental experts of PMCBC (assisted by safeguard support staff) and regular monitoring is being conducted by PIU and CMSC team at site. However, to facilitate day to day monitoring, all PIUs have one nominated engineer as Safeguard and Safety Officer (SSO), who is responsible to coordinate for Safeguard activities in their respective towns. SSO, PIU ensures day to day monitoring of implementation and coordinates with PIU, CMSC/PMCBC Social/ Environmental Expert and Contractor for effective safeguard implementation. SSO is also responsible at town level to ensure that all the Grievances received are resolved as per Grievance Redress Mechanism (GRM) prescribed in IEE/RP & EARF/RF. Contractors of each town have also deputed one EHS officer to implement the mitigation measures as per EHS requirements in their respective towns.

6. Details of personnel responsible for safeguard implementation and monitoring at different levels are given in following **Table-1**.

Table -1: Details of personnel responsible for environmental monitoring**A. PMU, PMCBC, CMSC and PIUs level**

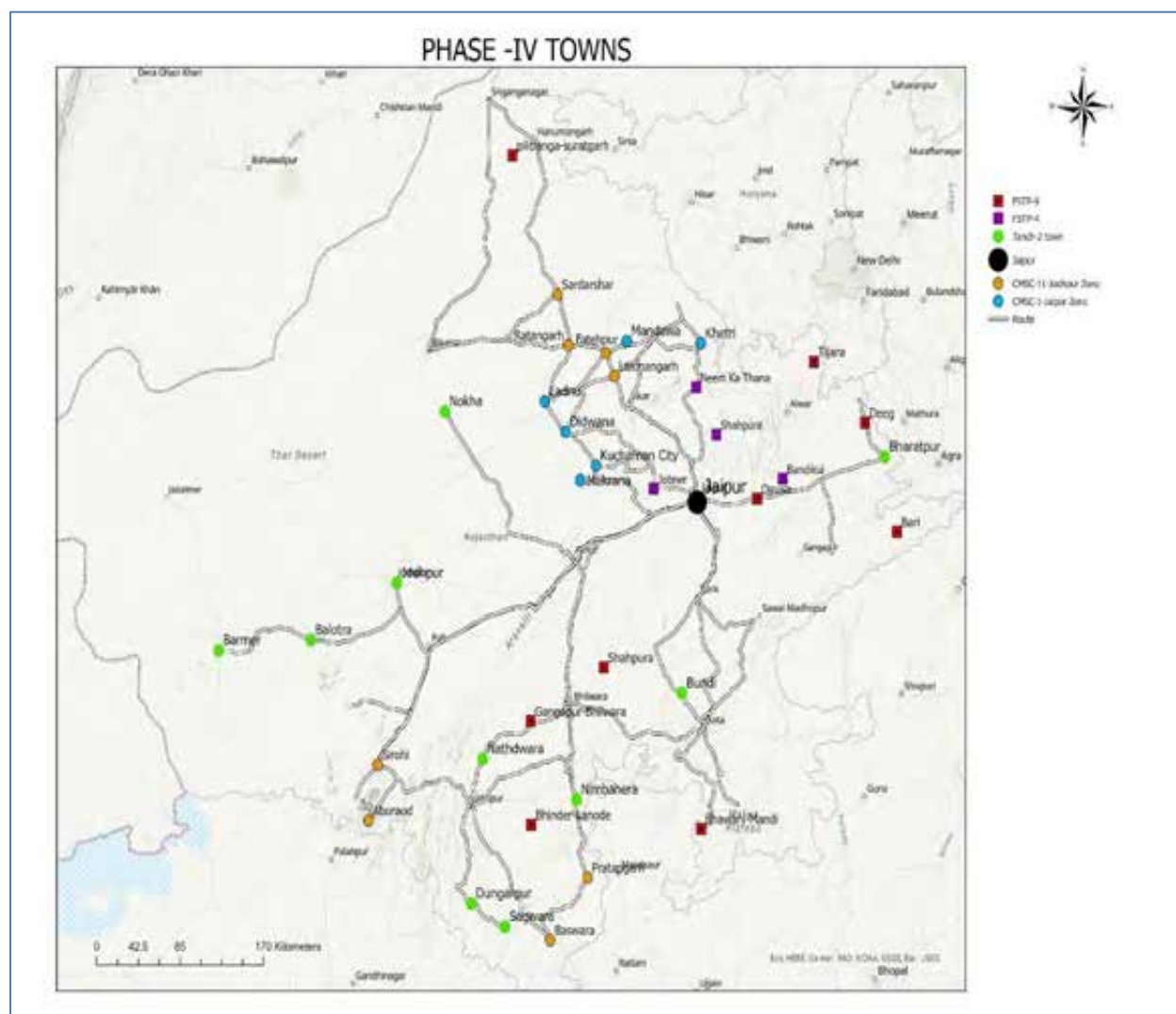
Name of Official	Location	Designation	Contact Details
PMU & PMCBC at Jaipur			
Ms. Poornima Mahlawat	PMU, Jaipur	Project Officer (Env)	7665112361
Mr. Ankit Kumar Chaudhary	PMU, Jaipur	Assist.Project Officer (Env)	9460036504
Dr. Surendra Nagdali	PMCBC, Jaipur	Environment Safeguard Specialist, PMCBC	Email: snagdali@yahoo.com Mob.-7678358158
Mr. Mohammada Saakira	PMCBC, Jaipur	Safeguard Support-Environment -1, PMCBC	Email: msaakira88@gmail.com Mobile: 8209120205
PIU Zonal Offices- Jodhpur and Jaipur			
Dr. Mahavir Prasad Saini	CMSC-2 Jodhpur	Environmental Safeguard Professional, CMSC-2	Email: enviro.cmssc2@gmail.com Mob. -9509557249
Mr. Vardan Srivastava	CMSC-1, Jaipur	Environmental Safeguard Professional, CMSC-1	Email: env.cmssc01@gmail.com Mob. - 9410085379
Mr. Mani Sharma	CMSC-1, Jaipur	Environmental Safeguard Support, CMSC-1	Mob- 8360043214 Email: mani.kumar@haskoningindia.co.in
Mr. Sandeep Tanwar left the project on dated 30.09.2023	CMSC-2 Jodhpur	Environmental Safeguard Support, CMSC-2	Email: sktanwar306@gmail.com Mob- 9897343579
Mr. Mayank Vyas Joined the project on dated 26.07.2023	CMSC-2 Jodhpur	Environmental Safeguard Support, CMSC-2	Email: Mob- 88905 64911
PIUs and CMSCs at towns			
Mr. Surendra Godra, J.E.	PIU, Laxmangarh	SSO, PIU, Laxmangarh	9667518549
Mr. Om Prakash Bairwa	PIU, Ratangarh	SSO, PIU, Ratangarh	8949818985
Manoj Mittal, E.E.	PIU, Sardarshahar	SSO, PIU, Sardarshahar	8112206994
Mr Devendra Saini	PIU, Fatehpur	SSO, PIU, Fatehpur	8005535181
Mr. Ashok Kadwasara	PIU, Sirohi	SSO, PIU, Sirohi	9929355255
Mr. Sunil Bishnoi	PIU, Abu Road	SSO, PIU, Abu Road	9783767531
Mr. Ashok Kumar	PIU, Banswara	SSO, PIU, Banswara	7976371932
Mr. Madan Lohar	PIU, Pratapgarh	SSO, PIU, Pratapgarh	8949383811
Ms. Pratibha	PIU, Kuchaman	SSO, PIU, Kuchaman	7568327377
Mr. Jitendra Choudhary	PIU, Ladnun	SSO, PIU, Ladnun	9783433002
Mr. Jitendra Choudhary	PIU, Didwana	SSO, PIU, Didwana	9783433002
Mr. Shrikant Yadav	PIU, Makrana	SSO, PIU, Makrana	8005828897
Ms. Sanju Pooniya	PIU, Mandawa	SSO, PIU, Mandawa	7726032018
Ms. Sanju Pooniya	PIU, Khetri	SSO, PIU, Khetri	7726032018
Mr. Ugrasen Kumar	Ratangarh/Laxmangarh /Sardarshahar/Fatehpur	Safeguard Support Environment CMSC-2	8687429952
Mr. Amit Kumar Chauhan	Abu Road/ Sirohi	Safeguard Support Environment CMSC-2	7683044085

Mr. Sandeep Tanwar left the project on dated 30.09.2023	Pratapgarh/ Banswara	Environmental Safeguard Support, CMSC-2	Email: sktanwar306@gmail.com Mob- 9897343579
Mr. Yogesh Atreya	Mandawa Town	Gender, Social & Environmental Safeguards Support Staff, CMSC-I	9460126777
Mr. Bhajan Lal Meena	Kuchaman Town	Gender, Social & Environmental Safeguards Support Staff, CMSC-I	8003939456
Mr. Ravi Kumar Verma	Ladnu Town	Environmental Safeguards Support Staff, CMSC-I	9983487296

B. Contractors' EHS personals

S No.	Town	Name of EHS Engineer	Contract Details	Contractors' Firm
CMSC-II Towns				
1.	Sardarshahar	Mr. Rakesh Sahu	9412313638	Larsen &Toubro Ltd.
2.	Ratangarh	Mr. M. Mustafa	9995979964	Larsen & Toubro Ltd.
3.	Fatehpur	Mr. M. Mustafa	9995979964	Larsen & Toubro Ltd.
4.	Laxmangarh	Mr. M. Mustafa	9995979964	Larsen & Toubro Ltd.
5.	Abu Road	Mr. Monuj Saikia	9894813736	Larsen & Toubro Ltd.
6.	Sirohi	Mr. Satish Vaniya	9983304779	Larsen & Toubro Ltd.
7.	Pratapgarh	Mr. Ashutosh Kumar	8861200971	Khiladi Infra Projects Ltd
8.	Banswara	Mr.Faizullah Mohd.	7903257109	BIPL-SC-HP Joint Venture
CMSC-I Towns				
9.	Kuchaman	Mr. Anurag Behrwal	9119104582	M/s Larsen &Toubro Ltd.
10.	Ladnun	Mr. Jeevan Kumar	9446224558	M/s Larsen & Toubro Ltd.
11.	Didwana	Mr. Jeevan Kumar	9446224558	M/s Larsen & Toubro Ltd.
12.	Makrana	Mr. Jeevan Kumar	9446224558	M/s Larsen & Toubro Ltd.
13.	Mandawa	Mr. Manoj Kumar Joya	9785868515	M/s L N Agarwal
14.	Khetri	Mr. Raj Kapoor Meena	9166949686	M/s Lahoty

7. **Description of sub-projects:** Under RUIDP Phase-IV, Trench-I, there are 14 subproject towns (Abu Road, Banswara, Didwana, Fatehpur, Khetri, Kuchaman, Ladnu, Laxmangarh, Makrana, Mandawa, Pratapgarh, Ratangarh, Sardarshahar and Sirohi) are selected under this loan. There are total 9 package in 14 project towns under Trench-I. There are 13 FSTP towns under Trench-I saving subprojects namely, Bandikui, Neem ka thana, Shahpura(Bhilwara),Jobner, Bari, Deeg, Pilibanga-Suratgarh, Shahpura- Bhilwara, Bhinder-Kanor, Gangapur, Bhawani Mandi, Dausa and Tijara. There are two FSTP works packages of 4 and 9 towns each in Trench –I, Saving subprojects. Location of all project towns in Rajasthan State map is shown in Figure 1.

Figure 1: Sub-project Locations in Rajasthan State Map

8. Sub-projects along with Contract Cost are described in the Table-2 below-

Table -2: Description of sub-projects under RSTDSP (Project no. 42267-031)

S No.	Town	Package No.	Name of Contractor	NTP Date	Contract Cost (INR)	Contract Cost (US\$) *	Description of works
1	Ratangarh	RSTDIP/RTG-FTP-LXG/01	M/s Larsen & Toubro Limited	15.6.2020	182,44,31,237.00	240,11,108.26	Construction of Sewer Network with House sewer connections; Construction of Sewage Treatment Plant & Sewage Pumping Station; Allied works and operation

S No.	Town	Package No.	Name of Contractor	NTP Date	Contract Cost (INR)	Contract Cost (US\$) *	Description of works
							services of the system for 10 Years
2	Laxmangarh		M/s Larsen & Toubro Limited	15.6.2020	49,45,94,511.00	650,92,95.66	Construction of Works of Water Supply Distribution Network Improvements with House service connections for non revenue water reduction; Continuous pressurized water supply and operation services of the entire system for 10 years
3	Fatehpur		M/s Larsen & Toubro Limited	15.6.2020	114,89,74,252.00	151,21,504.49	Construction of Sewer Network with House sewer connections; Construction of Sewage Treatment Plant & Sewage Pumping Station; Allied works and operation services of the system for 10 Years
4	Sardarshahar	RSTDIP/SRD/01	M/s Larsen & Toubro Limited	15.6.2020	196,70,00,000.00	258,87,437.68	Design and construction works of water supply and providing sewer network with house sewer connection along with construction of Sewage Treatment Plant & Sewerage Pumping Station; all allied works and operation services of the entire system for 10 years
5	Abu Road	RSTDIP/S HR-ABR/01	M/s Larsen & Toubro Limited	18.6.2020	263,77,98,830.00	345,87,823.18	Construction works of water Supply production; Distribution Network improvements with house services connections for non-revenue water reduction and continuous water supply and providing Sewer network with house sewer connections; Construction of Sewage Treatment Plant and all allied works and operation services of the entire system for 10 years
6	Sirohi		M/s Larsen & Toubro Limited	18.6.2020	213,92,01,170.00	280,50,020.71	Construction works of water Supply production; Distribution Network improvements with house services connections for non-revenue water reduction and continuous water supply and

S No.	Town	Package No.	Name of Contractor	NTP Date	Contract Cost (INR)	Contract Cost (US\$) *	Description of works
							providing Sewer network with house sewer connections; Construction of Sewage Treatment Plant and all allied works and operation services of the entire system for 10 years
7	Pratapgarh	RSTDIP/RT/01	M/s. Khilari Infrastructure Pvt. Ltd.	28.10.2020	190,60,00,255.00	257,45,696.51	Construction of Sewerage System including sewerage network, Sewage Treatment Plant, sewage pumping station and house sewer connection along with all allied works and operation services of the entire system for 10 years
8	Banswara	RSTDIP/BN/04	M/s. BIPL-SC-HP Joint Venture	11.02.2021	320,74,60,597.00	435,81,759.39	Construction Works of Water Supply production and Distribution Network improvements with house services connections for non-revenue water reduction and continuous water supply and providing Sewer network with house sewer connections along with construction of Sewage Treatment Plant & Sewerage Pumping Station and all allied works and operation services of entire system for 10 years
9	Khetri	RSTDIP/KTR/03	M/s. Lahoty-LNA (JV)	20.03.2021	79,63,81,137.50	109,93,392.45	Construction works of Water Supply Production and Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply and Providing Sewer Network with House connections, and construction of Sewage Treatment Plant and all allied Works and operation services of the entire system for 10 years
10	Mandawa	RSTDIP/MDW/03	M/s. LNA-R & B (JV), Jaipur	08.03.2021	106,12,15,221.40	14,502,032.35	Construction Works of Water Supply production and distribution network Improvements with house service connections for

S No.	Town	Package No.	Name of Contractor	NTP Date	Contract Cost (INR)	Contract Cost (US\$) *	Description of works
							nonrevenue water reduction and continuous water supply and Providing Sewer Network with House connections, and construction of Sewage Treatment Plant, Sewage Pumping Station and all allied Works and operation services of the entire system for 10 years at Mandawa (Jhunjhunu)
11	Kuchaman	RSTDIP/K MN/02	M/s Larsen & Toubro Limited,	05.05.2021	313,93,75,000.00	42,458,412.22	Construction Works of Water Supply Production and Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply and Providing Sewer Network with House sewer connections, and construction of Sewage Treatment Plant & Sewage Pumping Station and all allied Works and operation services of the entire system for 10 years at Kuchaman (Nagaur)
12	Didwana	RSTDIP/L DN-DID-MKN/01	M/s Larsen & Toubro Limited,	05.05.2021	87,39,66,167.00	11,819,457.78	Construction Works of Sewer Network with House sewer connections, and construction of Sewage Treatment Plant & Sewage Pumping Station and allied Works and operation services of the entire system for 10 years at Didwana (Nagaur)
13	Makrana		M/s Larsen & Toubro Limited,	05.05.2021	142,98,18,867.00	19,336,771.12	Construction Works of Sewer Network with House sewer connections, and construction of Sewage Treatment Plant & Sewage Pumping Station and allied Works and operation services of the entire system for 10 years at Makrana (Nagaur)

S No.	Town	Package No.	Name of Contractor	NTP Date	Contract Cost (INR)	Contract Cost (US\$) *	Description of works
14	Ladnu		M/s Larsen & Toubro Limited,	05.05.2021	174,40,93,122.00	23,586,994.33	Construction Works of Sewer Network with House sewer connections, and construction of Sewage Treatment Plant and all allied Works and operation services of the entire system for 10 years at Ladnun (Nagaur)
Trenche-I Saving Subprojects under RSTDSP							
1	Combined package of four towns- Bandikui, Neem ka Thana, Shahpura and Jobner	RSTDSP/ NKT-SHR-BAN-JOB/01	M/s Genius-LNA JV	21.06.2022	15,72,57,783.00	20,12,809.44	Design, Supply, Construction, Testing, Trial run and commissioning of FSTP with 5 years operation and maintenance at Neem Ka Thana, Shahpura (Jaipur), Bandikui, Jobner Rajasthan including supply, testing of vehicle mounted suction machine for fecal sludge desludging.
2	Combined package of 9 towns, Bari, Tijara, Dausa, Deeg, Shahpura (Bhilwara), Bhinder-Kanode, Gangapur (Bhilwara), Bhawani Mandi, Pilibanga-Suratgarh	RSTDSP/ FSTP-9 Towns/03	M/s MTS-EIEPL JV	11.11.2022	463457750	57,46,702.32	Design, Supply, Construction, Testing, Trial run and commissioning of FSTP with 5 years operation and maintenance at Bari, Tijara, Dausa, Deeg, Shahpura (Bhilwara), Bhinder-Kanode, Gangapur (Bhilwara), Bhawani Mandi, Pilibanga-Suratgarh

* Calculated on the basis of US\$ rate on the date of Notice to Proceed of concerned contracts

9. **Overall status of sub-projects and cumulative progress of works:** Contracts are awarded for 14 project towns in (Ratangarh, Laxmangarh and Fatehpur under single contract as package, no. RSTDIP/RTG-FTP-LXG/01, Sardarshahar– package no. RSTDIP/SRD/01, Abu Road and Sirohi under single contract as package no. RSTDIP/SHR-ABR/01, Pratapgarh; package no. RSTDIP/PRT/01, Banswara; package no. RSTDIP/BNS/04, Khetri; package no. RSTDIP/KTR/03, Mandawa; package no. RSTDIP/MDW/03, Kuchaman; package no. RSTDIP/KMN/02, Didwana, Makrana and Ladnu under single contract as package no. RSTDIP/LDN-DID-MKN/01. Work has started in all 14 towns (Ratangarh, Laxmangarh, Fatehpur, Sardarshahar, Abu Road, Sirohi, Pratapgarh, Banswara, Khetri, Mandawa, Kuchaman, Ladnu, Makrana and Didwana). Overall status of the project and work progress is given in following **Table 3 & 4**

Table 3: Overall status of sub-projects (up to 31.03.2024)

S. N o.	Sub-Project Towns and Package Number	Status of Sub-Project				Type of Works*	Progress of Works**
		Design	Pre-Construction	Construction	Operation Phase		
1	Laxmangarh-RSTDIP/RTG-FTP-LXG/01				✓	Water Supply	100%
2	Ratangarh-RSTDIP/RTG-FTP-LXG/01			✓		Sewerage System	82%
3	Fatehpur-RSTDIP/RTG-FTP-LXG/01			✓		Sewerage System	100%
4	Sardarshahar-RSTDIP/SRD/01			✓		Sewerage System, Water Supply & Rehabilitation	71%
5	Sirohi- RSTDIP/SHR-ABR/01			✓		Sewerage System, Water Supply & Rehabilitation	89%
6	Abu Road-RSTDIP/SHR-ABR/01			✓		Sewerage System, Water Supply & Rehabilitation	84%
7	Pratapgarh-RSTDIP/PRT/01			✓		Sewerage System	100%
8	Banswara-RSTDIP/BNS/04			✓		Sewerage System, Water Supply & Rehabilitation	91%
9	Khetri- RSTDIP/KTR/03			✓		Sewerage System, Water Supply & Rehabilitation	65%
10	Mandawa-RSTDIP/MDW/03			✓		Sewerage System, Water Supply & Rehabilitation	76%
11	Kuchaman-RSTDIP/KMN/02			✓		Sewerage System, Water Supply & Rehabilitation	69%
12	Ladnu- RSTDIP/LDN-DID-MKN/01			✓		Sewerage System	67%
13	Didwana-RSTDIP/LDN-DID-MKN/01			✓		Sewerage System	81%
14	Makrana RSTDIP/LDN-DID-MKN/01			✓		Sewerage System	85%
Trenche-I Saving Subprojects under RSTDSP							
1	Combina package of four towns -Bandikui,		✓			Faecal Sludge and Septage	60%

S. N o.	Sub-Project Towns and Package Number	Status of Sub-Project				Type of Works*	Progress of Works**
		Design	Pre-Construction	Construction	Operation Phase		
	Neem ka Thana, Shahpura and Jobner					Management (FSSM)	
2	Combined package of 9 towns, Bari, Tijara, Dausa, Deeg, Shahpura (Bhilwara), Bhinder-Kanode, Gangapur (Bhilwara), Bhawani Mandi, Pilibanga-Suratgarh		✓			Faecal Sludge and Septage Management (FSSM)	48%

* For details of proposed works refer Table 4, **As per P1 format received from respective town PIU

Table 4: Cumulative Progress of Works up to 31.03.2024

Town: Ratangarh

Contract description	Cumulative Progress of works up to 31.03.2024		
Package no - RSTDIP/RTG-FTP-LXG/01 Works under package- Construction Works of Providing Sewer Network with House sewer connections along with construction of Sewage Treatment Plant & Sewage pumping Station and all allied Work and operation services of the entire system for 10 years at Ratangarh (Churu). Name of Contractor- M/s-Larsen & Toubro Limited Contract type- Design, Build and Operate Date of Start- 22.06.2020 Cumulative Physical Progress- 82 %	Sewerage Work:		
	Item	Scope	Progress
	STP (2 No.)	STP-1 6.1 MLD at Gaushala (71%) physical progress)	• SBR: Civil work and hydro testing completed. Decanter installed, diffuser installation work is under progress. • PTU: Civil work completed. EMI Status: All EMI are procured and installed. • Admin Building: Finishing work under progress. EMI status: Volute press installed. Chlorination tank procured. • TEER: Top dome concrete completed. Stair work & hydro testing work under progress. EMI status: DI pipes for pipeline to be procured. • MPS: Civil work completed. EMI status: DI pipe procured and pumps to be procured. Installation of panel and ISMB completed. • EMI work: Diffuser, blower, pump for SBR & TEER, Sluice gates, LT Panel, Grit separator, Fine screen are procured and installed. Gate & blower pipeline work completed. Electrical cable work under progress.
		STP -2 3.8 MLD Near NH-11	• 3.80 MLD STP – STP in use. • E&M work: EMI completed. PLC SCADA under trail run.
	SPS (2 No.)	SPS -1 3.8 MLD BSNL Office	• 3.80 MLD SPS- SPS in use. • EM work: EMI completed. PLC SCADA under trail run.
		SPS -2	• SUMP: Wet well completed and Mechanical work is under progress. • Metering Room: Finishing work is in progress.

Contract description		Cumulative Progress of works up to 31.03.2024		
Stipulated Date of completion of Design Build- 21.06.2023 Likely Date of completion- 30.06.2024		4.6 MLD near Main Ginani (72.20 % Physical progress)	- Guard Room: Finishing Work is in progress. - DG, Transfer & RMU foundation work completed. EMI Work: DG Set and, Transformer are procured. Great Separator, Gates, Screen, Pump are installed and pipe line work completed. MCC panel to be procured.	
	Lateral sewer (up to dia 300)	129.0 KM	- Supply: 129.0 Km - Laid: - 128.54Km - Testing: 116.50 Km - Deflection Test: 116.50 Km - Commissioning:35.42 Km	
	Outfall RCC Pipe	1.82 KM	- Supply: -Nil - Laid: -Nil	
	PVC-U pipe(110 & 160 mm dia)	91.50 KM	- Supply: -70.59km - Laid:- 53.60km - Testing: 53.60 Km - Commissioning:20.26 Km	
	Manholes	6054 Nos.	- Shallow Manhole installation: 4002 Nos. - Testing: 3702 Nos. - Commissioning: 1454 Nos. - Supply for precast Manhole: 1601 Nos. - Installation: 1428 Nos. - Testing: 995 Nos. - Commissioning: 721 Nos.	
	Inspection Chamber (A types)	11355 Nos	- Supply: - 10337 Nos. - Installation: - 9838 Nos. - Testing: 9513 Nos. - Commissioning: 3858 Nos.	
	HDPE pipe (PE 100 PN 6) Trenchless	14.63 KM	- Supply: -14.264 km - Laid: - 14.07 km - Testing: 11.00 Km - Commissioning: 6.50 Km	
	D.I K-9 Pipes (Pumping Main)	3.50 KM	- Supply: - 3.327 km - Laid: - 3.02 km - Hydro Testing: 2.06 Km - Commissioning: 2.06 Km	
	D.I K7 Pipes	3.50 KM	- Supply: Nil - Laid: Nil	
	House Sewer Connection	13100 Nos.	- Installation: 4299 Nos. - Testing: 4370 Nos. - Commissioning: 3825 Nos	
For Road Cutting & Restoration-				
Road cutting		Road restoration		Balance Road restoration
- Kuccha: - 13.208 Km - CC- 37.829 Km - BT- 63.177 Km - Interlock -15.478 Km		- Kuccha: - 13.208 Km - CC- 37.789 Km - BT- 62.987 Km - Interlock –15.478 Km		- Kuccha: - Km - CC- 0.240 Km - BT- 0.680 Km - Interlock – 0.060 Km

Contract description	Cumulative Progress of works up to 31.03.2024		
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	CRMC Building	2 Nos. (Near Nagar Palika & Ginani)	CRMC-1 (Nagar Palika): - Work Completed and office furniture and other accessories to be procured. CRMC-2: Finishing work is in progress. Partition wall is pending and office furniture and other accessories to be procured.
	DCI Status:	177 Nos	All drawing are approved.

Town: Laxmangarh

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no - RSTDIP/RTG-FTP-LXG/01 Works under package- Construction Works of Water Supply Distribution Network Improvements with House service connections for non-revenue water reduction; Continuous pressurized water supply and operation services of the entire system for 10 years at Laxmangarh (Sikar) Name of Contractor- M/s- Larsen & Toubro Limited Contract type- Design, Build and Operate Date of Start- 22.06.2020 Cumulative Physical Progress- 100 % Stipulated Date of completion of Design Build- 21.06.2023	Water Supply:			
	Item	Scope of work	SIP Scope	Progress
	CWR	100 KL at AEn Campus	100 KL at AEn Campus	100 % work completed.
		250 KL at Bad ke Balaji	250 KL at Bad ke Balaji	100 % work completed.
	Distribution Network	150.303 km	160.64 km	100 % Completed
	House Service Connection upto meter	9007 Nos	9007 nos	100 % Completed
	Chlorination Rooms	02 nos	02 nos	1). <u>Bad Ke Balaji H/W</u> : 100 % work completed. 2). <u>Aen Campus H/W</u> : 100 % work completed.
	Metering	EMFM -16		a) Supply: 0 Nos. b) Installation: 0 Nos c) Testing: NIL d) Commissioning : NIL
		BFM -31		a) Supply: 0 Nos. b) Installation: 0 Nos c) Testing: NIL d) Commissioning : NIL
	Pressure Transmitters	55 Nos.		a) Supply: 0 Nos. b) Installation: 0 Nos c) Testing: NIL d) Commissioning : NIL
	No. of DMAs	14 Nos.	14	-
	For Road Cutting & Restoration-			
	Road cutting		Road restoration Base Layer	Road restoration Top Layer
	- Kuccha: -93.11Km - CC- 72.93 Km		- Kuccha: - 93.11 Km - PCC- 72.93 Km	- Kuccha: - 93.11 Km - CC- 72.93 Km

Contract description	Cumulative Progress of works up to 31.03.2024		
	• BT- 1.80 Km Total -167.84 km	• BT-1.80 Km Total – 167.84 km	• BT- 1.80 Km • Total - 167.84 km
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	CRMC Building opp to EE office	1 nos.	100 % work completed.
	CRMC Building at AEn office	1 nos.	100 % work completed.
	MCC	1 Nos	100 % work completed.
	Refurbishment Work:		
	Pump House	02 no's	100 % work completed.
	Tube well	34 no's	100 % work completed.
	OHSR	08 no's	100 % work completed.

Town: Fatehpur

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no - RSTDIP/RTG-FTP-LXG/01 Works under package- Construction works of Sewer Network with House sewer connections; Construction of Sewage Treatment Plant & Sewage Pumping Station; Allied works and operation services of the system for 10 Years at Fatehpur (Sikar) Name of Contractor- M/s- Larsen & Toubro Limited Contract type- Design, Build and Operate Date of Start- 22.06.2020 Cumulative Physical Progress- 100% Stipulated Date of completion of Design Build- 21.06.2023	Sewerage Work:			
	Item	Scope of work	SIP Scope	Progress
	STP (1 No.)	4.3 MLD at Nari Bari Road in existing STP Campus	Same as Scope of work	100 % completed
	MPS	MPS for 4.3 MLD STP (Nari Bari Village Road in Existing STP Campus)	Same as Scope of work	MPS: - Civil work completed. Mechanical work is in under progress. DG/Transformer:- Civil work completed.
	SPS (3 No.)	3.5 MLD near dholi Sati Temple	Same as Scope of work	100% completed
		0.60 MLD, (Near Aksha Masjid:- Zone-2) Khasra no. 982, National Highway no. 52, Jahanghir ki kui	Same as Scope of work	100% completed
		1.1 MLD Near Railway underpass Nawalgarh road- Zone-1 (Khasra no. 1806)	Same as Scope of work	100% completed
	Lateral sewer (upto dia 250 mm)	93.494 Km	85.482 Km	a) Supply: 88.50 Km b) Laid: - 88.50 Km c) Testing: 88.50 Km d) Commissioning: 88.50 Km

Contract description	Cumulative Progress of works up to 31.03.2024			
	Outfall (above dia 315)	1.533 KM	1.500 Km	a) Supply: NIL b) Laid: -NIL c) Testing: NIL d) Commissioning: Nil
	PVC-U pipe (110 & 160 mm dia)	66 KM	47.19 Km	a) Supply: 47.19 Km b) Laid: - 47.19 Km c) Testing: 47.19 Km d) Commissioning: 47.19 Km
	Manholes (All types)	7478 Nos	4751 Nos.	a) Supply (RCC MH):3871No. b) Installation (All Types) – 4751 Nos. c) Testing: 4751 Nos. d) Commissioning: 4751 Nos
	Inspection Chamber (A types)	6600 Nos	2809 Nos.	a) Supply (RCC MH):2809No. b) Installation (All Types) – 2809 Nos. c) Testing: 2809 Nos. d) Commissioning: 2809 Nos
	Population Benefitted due to commissioned	60000	60000	-
	House Sewer Connection	5600 Nos.	5850 Nos.	As per SIP there are 6484 Nos. but as per site condition only feasible connection are 5850 Nos. they are completed now there is no balance connection.
	FSM			• Total ward: 40 • 30.78 % under network • Out of 40 wards 13 ward have low density. Total 10.59 % coverage under FSSM. Co-treatment in sewerage treatment plant.
	For Road Cutting & Restoration-			
	Road cutting	Road restoration Base Layer	Road restoration Top Layer	
	• Kuccha: 49.3 Km • CC –35.70 Km • BT – 3.50 Km • Interlock– 0.00 Km Total: - 88.50 Km	• Kuccha: 49.3 Km • CC –35.70 Km • BT –3.50 Km • Interlock– 0.00 Km Total: - 88.50 Km	• Kuccha: 49.3 Km • CC –35.70 Km • BT – 3.50 Km • Interlock– 0.00 Km Total: - 88.50 Km	
Building and Miscellaneous work				
Item Description	Scope of Work	SIP Scope	Progress made so far	
CRMC Building	1 Nos. (Nagar Palika)	Same as Scope of work	100 % work completed.	
Trenchless Work				

Contract description	Cumulative Progress of works up to 31.03.2024			
	Item Description	Scope of Work	SIP Scope	Progress made so far
	HDPE Pipe	10.24 Km	15.09 m	a) Supply: 15.09 Km b) Laid: - 15.09 Km c) Testing: 15.09 Km d) Commissioning: 15.09 Km
	DI Pipe	5.95 m	3.67 Km	a) Supply: 3.67 Km b) Laid: - 3.67 Km c) Testing: 3.67 Km d) Commissioning: 3.67 Km

Town: Sardarshahar

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no - RSTDIP/SRD/01 Works under package- Construction Works of Water Supply Production and Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply and providing sewer network with house sewer connections along with construction of Sewage Treatment Plant & Sewerage Pumping Station; all allied works and operation services of the entire system for 10 years at Sardarshahar (Churu). Name of Contractor- M/s- Larsen & Toubro Limited Contract type- Design, Build and Operate Date of Start- 22.06.2020 Cumulative Physical Progress- 71 % Stipulated Date of completion of Design Build- 21.06.2023	Water Supply:			
	Item	Scope	SIP Scope	Progress
	Total Distribution Network	200.39	273.51	
	HDPE Pipe (75mm to 315mm) (180mm)	190.01 Km	261.53 Km	a) Supply: -252.90 Km b) Laid: - 247.48 Km c) Testing: - 219.22 Km d) Commissioning: - NIL
	DI Pipe K7 (100mm to 400mm)	10.379 km	11.981 Km	e) Supply: - 11.08 km f) Laid: - 5.42 km g) Hydro Testing: - 3.28 km h) Commissioning: -NIL
	DI Pipe K9	2.100 Km	6.100 km	a) Supply: - 6.10 km b) Laid: - 2.80 km c) Hydro Testing: - 0.70 Km d) Commissioning: - NIL
	House Service Connection	22000 Nos	22907 Nos.	a) Laying/installation: - b) Laid: 15464 Nos.
	Domestic Water Meter (15mm,20mm & 25mm)	22000 Nos	22907 Nos.	a) Laying/installation: - b) Laid: 9581Nos.
	Metering	EMFM-17 Nos	Equal to BOQ	a) Supply: 13 Nos. b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
		BFM- 51 Nos.	Equal to BOQ, Subject to change as per redesigning of Network	a) Supply: 51 Nos. b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
	Pressure Transmitters	85 Nos.	Equal to BOQ	a) Supply: 52 Nos. b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL

Contract description	Cumulative Progress of works up to 31.03.2024			
Likely Date of Completion: - 30.06.2024	No. of DMAs	26 Nos.	26 Nos.	2 DMA Supply Started and balance in progress.
	RWR	-	-	-
	WTP	-	-	-
	Pump House	1 Nos. at PHED Campus	1 Nos. at PHED Campus	Step down arrangement for electric connection is pending at Jodhpur discom level.
	CWR	1 No. (2400 KL PHED Campus)	1 No. (2400 KL PHED Campus)	100 % Completed
	OHSR	-	-	-
	Rehab Work (WTP,PH,CWR, OHSR etc)	Existing PH, CWR, in PHED Campus Surya mandir, Bharodhan, Holidora, Ramnagar	Existing PH, CWR, in PHED Campus Surya mandir, Bharodhan, Holidora, Ramnagar	Work started in Surya Mandir OHSR and Bharodhan, OHSR.
	Population benefitted due to commissioned	1.09 lacs	1.09 Lacs	
	Wastewater			
	STP (03 Nos.)	3.4 MLD at North Campus	3.4 MLD at North Campus	All structure civil work completed and finishing work under progress.
		2.3 MLD at South Campus	2.3 MLD at South Campus	All structure civil work completed and finishing work under progress.
		1.6 MLD at Gandhi Vidhya Mandir Campus	1.6 MLD at Gandhi Vidhya Mandir Campus	Admin Block column work up to first slab level completed. Meter room up to slab level completed. SBR reinforcement work is in progress.
	MWPS	1	1	All civil work completed.
		0.60 MWPS		All civil work completed.
	MWPS 0.65 MLD (Bikaner Road Near Sabji Mandi)	1 No. (0.65 MWPS)	1 No. (0.65 MWPS)	All civil work completed.
	SPS	2.3 MLD at Gaushala Land near BSNL Office	2.3 MLD at Gaushala Land near BSNL Office	Wet wall: -Civil work completed. Mechanical work is in progress. Metering Room: - Civil work completed. Finishing work is in progress.
	Lateral Sewer (up to dia 315) (200mm,250m m,300mm)	53.70 Km	50.50 Km	a) Supply: 50.50 km b) Laid: - 50.00 km c) Testing: - km d) Commissioning-NIL

Contract description		Cumulative Progress of works up to 31.03.2024			
	Outfall (350mm to 600mm)	4.222 Km	0.918	a) Supply: 0.500 km b) Laid: 0.298 km c) Testing: NIL d) Commissioning-NIL	
	PVC-U Pipe (110 & 160 mm dia)	76 Km	51.02	a) Supply: - 48.29 km b) Laid: - 23.38 km c) Testing: NIL d) Commissioning: -NIL	
	Manholes (All types)	4319 Nos.	2964 nos.	a) Supply: 2930 Nos b) Installation: - 2692 Nos c) Commissioning: - Nil	
	Inspection Chamber (All types)	7600	7600 Nos.	a) Supply: 4377 Nos b) Installation: - 4020 Nos c) Testing: - NIL d) Commissioning: - NIL	
	Population benefitted due to commissioned	1.09 lacs	1.09 lacs	-	
	FSM			• Total ward: 40 • Out of 40 wards 9 wards have low density. Total 11.66 % coverage under FSSM. Co-treatment in sewerage treatment plant.	
For Road Cutting & Restoration-					
Road cutting		Road restoration		Balance Road restoration	
• Kuccha: 90.507 Km • CC – 117.88 Km • BT- 15.12 Km • WMM – 23.98 Km • Interlock– 0.00 Km		• Kuccha: - 90.50 Km • CC – 114.78 Km • BT- 15.12 Km • WMM- 23.98 Km • Interlock – 0.00 Km		• Kuccha: - 0 Km • CC– 3.10 Km • BT- 0 Km • WMM- 0 Km • Interlock – 0 Km	
Building and Miscellaneous work					
Item Description	Scope of Work	SIP Scope	Progress made so far		
CRMC -1	1. PHED Campus	1. PHED Campus	• Civil work completed		
CRMC -2	1. AEn, PHED campus	1. AEn, PHED campus	• Civil work completed. Finishing work in progress.		
CCC Building (1 No.)	PHED Campus	PHED Campus	• Work completed.		
MCC Building (1 No.)	PHED Campus	PHED Campus	• Civil work completed. SCADA installation under progress.		
PLC SCADA	1 No.	1 No.			
Trenchless Work					

Contract description	Cumulative Progress of works up to 31.03.2024			
	HDPE Pipe to (250mm to 630mm)	11.866 Km	9.60	a) Supply: - 9.60 Km b) Laid: - 8.76 Km c) Testing: - Nil d) Commissioning: -Nil
	RCC Pipe (600mm)	Nil	0.42 Km	a) Supply: - 0.30 km b) Laid: - Nil c) Testing: - Nil
	MS Pipe (450mm to 500mm)	Nil	0.20 Km	a) Supply: - 0.14 km b) Laid: - 0.12 Km c) Testing – NIL d) Commissioning – NIL

Town: Abu Road

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no - RSTDIP/SHR-ABR/01 Works under package- Construction works of water Supply production; Distribution Network improvements with house services connections for non revenue water reduction and continuous water supply and providing Sewer network with house sewer connections; along with construction of Sewage Treatment Plant; all allied works and operation services of the entire system for 10 years at Abu Road Name of Contractor- M/s- Larsen & Toubro Limited Contract type- Design, Build and Operate Date of Start- 22.06.2020 Cumulative Physical Progress- 84.0% % Stipulated Date of completion of Design Build- 21.06.2024	Water Supply			
	Item	Scope	Revised Scope of work	Progress
	HDPE Pipe	138.56 Km	138.56 Km	a) Supply: 138.56 Km b) Laid: -. 129.029 Km c) Testing 112 km d) Commissioning: NIL
	DI Pipe K7	33.08 Km	18.154 km	a) Supply: 18.09 Km b) Laid: -14.921 km c) Testing: 13.4 km d) Commissioning: NIL
	DI Pipe K9 (Transmission Mains)	32.44Km	33.08 Km	a) Supply: - 29.35 Km b) Laid: - 26.749 Km c) Testing: 22 km d) Commissioning: NIL
	House Service Connection	12800 Nos	12924 Nos.	a) Laying/Installation: 8801 Nos. b) Testing: NIL c) Commissioning: NIL
	Domestic Water Meter	12800 Nos	12924 Nos.	a) Supply: 11300 Nos. b) Laid: - 100 Nos. c) Testing: NIL d) Commissioning: NIL
	Metering	EMFM-13 Nos	13 Nos.	a) Supply: 08 Nos. b) Laid: -01 Nos. c) Testing: NIL d) Commissioning: NIL
		BFM- 59 Nos.	59 Nos	a) Supply: 19 Nos. b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
	Pressure Transmitters	88 Nos.	88 Nos.	a) Supply: 52 Nos. b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
	No. of DMAs	20 Nos.	19 Nos.	-

Contract description	Cumulative Progress of works up to 31.03.2024			
	RWR	-	-	-
	WTP 10 MLD	1 No	1 No.	Clarifloculator- Equipment installation completed, Electrical work in progress Chemical House: Flooring & painting in progress, Piping in progress all procurement completed Admin Building: Electrification & Painting in Progress, PLC and Laboratory yet to install, Procurement complete Staff Quarters All civil work Completed, furniture pending Guard room metering room – EMI work yet to done
	Pump House	4 No	4 Nos.	Santpur, Luniyapura, Market Area and Housing Board
		Santpur	Santpur	Civil work Completed, Pump installed, Piping and Valve in process
		Luniyapura	Luniyapura	Pump, piping, valve, DG, Transformer , RMU installation Completed, EMI work like PT,EMFM under progress
		Market Area	Market Area	Raft in progress
		Housing Board	Housing Board	Finishing work in progress.
	CWR	5 No.	5 Nos.	Santpur , Luniyapura, Market Area, Gandhinagar and Housing Board
		Luniyapura CWR	Luniyapura CWR	Civil completed, Piping completed, Instrumentation yet to done , All procurement done
		Santpur CWR	Santpur CWR	Civil completed, Piping completed
		Market Area CWR	Market Area CWR	Second lift vertical wall reinforcement binding work in progress.
		Housing Board CWR	Housing Board CWR	Civil Work completed finishing work under progress, All EMI procurement done yet to install
		Gandhi Nagar CWR	Gandhi Nagar CWR	Civil Work completed finishing work under progress, All EMI procurement done yet to install
	Intake	1	1	Online application proceeds on dated 13.08.2021, Now the final proposal submitted to Nodal officer on dated 27.07.2022. Query raised by Nodal officer to

Contract description	Cumulative Progress of works up to 31.03.2024			
				DFO dated 23.08.22 and DFO replied the same on dated 28.08.2022, proposal accept & approved by Nodal officer Jaipur on Dated 13.09.2022 presently Stage-I Approval given by Regional Office on dated 11-07-23. Stage II in process
	FSM			Total FSM to be treated in 6.9 MLD STP.
	Tube Well		18	16 no bore well completed, 3 Nos Running in PHED existing system
	Wastewater			
	STP (02 Nos.)	6.9 MLD	6.9 MLD	SBR- Dry run completed trial run is in progress PTU- Dry run completed trial run is in progress Staff Quarter- All work Completed, AC installation pending Admin Building- All work Completed, SCADA Installation completed Guard Room & Metering Room- All EMI Completed TEER- Top dome in process MPS- Dry run completed trial run is in progress
		2.3 MLD	2.3 MLD	SBR- Dry run completed trial run is in progress PTU- Dry run completed trial run is in progress MPS- Dry run completed trial run is in progress Admin Building – All work Completed, SCADA and furniture work in progress Staff Quarter- All work Completed, AC installation pending Guard Room & Metering Room- All EMI Completed TEER- Raft in process Retaining wall- Completed.
	DWC Pipes	82.39 Km	84.40 Km	a) Supply: 84.223 Km b) Laid: -82.246 Km c) Testing: 78 Km d) Commissioning: NIL
	RCC Pipes	1.59 Km	1.59 Km	a) Supply: 1.588 km b) Laid: - 1.588 km c) Testing: 1.108 km d) Commissioning: NIL

Contract description	Cumulative Progress of works up to 31.03.2024			
	PVC-U Pipe	130 Km	99.05 Km	a) Supply: 93.516 Km b) Laid: - 42.39 Km c) Testing: 37.02 Km d) Commissioning: NIL
	Manholes (All types)	5185 Nos.	5047 Nos.	a) Supply: 4567 nos. b) Installation: -3953 Nos. c) Testing: 3098 Nos. d) Commissioning: NIL
	Inspection Chamber (All types)	13000 Nos.	14150 Nos.	a) Supply: 9570 Nos. b) Installation: - 9570 Nos. c) Testing: 7932 nos. d) Commissioning: NIL
	Population benefitted due to commissioned	66016	66016	
	For Road Cutting & Restoration-			
Item Description		Scope of Work	Progress made so far	
Road Cutting		95.35 Km	- Kuccha: - 9.3 Km - CC-76.18 Km - BT- 7.55 Km	
Road Restoration		95.35 Km	- Kuccha: -9.3 Km (Only Kuccha) - CC Km (up to PCC-74.9 km, Full CC-74.4 km) - BT Km (up to WMM)-7.55 km	
Building and Miscellaneous work				
Item Description		Scope of Work	Progress made so far	
CRMC Building		1	Completed	
CCC Building		1	Completed	
MCC Building		1	Completed	
PLC SCADA		11	Drawings under review	
Trenchless Work				
HDPE Pipe		15.78 km	a) Supply: 15.78 Km b) Laid: - 15.289 Km c) Testing: 13.0 Km d) Commissioning: NIL	
RCC Pipe		1.588 km	a) Supply: 1.588 km b) Laid: - 1.588 km c) Testing: 1.108 km d) Commissioning: NIL	
MS Pipe		210 mtrs	a) Supply: NIL b) Laid: - NIL c) Testing: NIL d) Commissioning: NIL	

Town: Sirohi

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no - RSTDIP/SHR-ABR/01 Works under package- Construction works of water Supply production; Distribution Network improvements with house services connections for non-revenue water reduction and continuous water supply and providing Sewer network with house sewer connections; along with Construction of Sewage Treatment Plant and all allied works and operation services of the entire system for 10 years at Sirohi Name of Contractor- M/s- Larsen & Toubro Limited Contract type- Design, Build and Operate Date of Start- 22.06.2020 Cumulative Physical Progress- 89 % Stipulated Date of completion of Design Build- 21.06.2024	Water Supply			
	Item	Scope of work	SIP Scope	Progress
	HDPE Pipe	118 Km	129.198 km	a) Supply: - 129.198 km b) Laid: 128.975 km c) Testing: - 126.700 km d) Commissioning:- NIL
	DI Pipe K7	5.4 Km	5.257 km	a) Supply: - 5.257 km b) Laid: - 4.688 km c) Hydro Testing: - 3.123 km d) Commissioning:- Nil
	DI Pipe K9	36.76 Km (as per BOQ) Revised -29.92 Km	24.730 km	a) Supply: - 24.730 km b) Laid: - 24.680 km c) Hydro Testing: - 23.517 km d) Commissioning:- 13.354 Km
	House Service Connection	8900 Nos	12428 Nos.	a) Laying/install: - 10410 nos b) Testing: - 9900 nos c) Commissioning:- Nil
	Domestic Water Meter	8900 Nos	12428 Nos.	a) Supply: - 9875 Nos. b) Installation: - 4200 Nos. c) Testing: - Nil d) Commissioning: - Nil
	Metering	EMFM-10 Nos	EMFM- 10 Nos.	a) Supply: - 10 Nos. b) Installation: - 04 c) Testing: - Nil d) commissioning: - Nil
		BFM- 11 Nos.	BFM- 32 Nos	a) Supply: - 20 Nos. b) Installation: - 07 c) Testing: - Nil. d) commissioning: - Nil
	Pressure Transmitters	47 Nos.	51 Nos.	a) Supply: - 51 Nos. b) Installation: - Nil c) Testing: - Nil d) Commissioning: - Nil
	No. of DMAs	20 Nos. (with 7 Nos Zones)	-	6 DMA under commissioning process
	Intake	8.60 MLD Intake well at Angore	-	Footing and columns 1st lift completed for 24 set of columns, shuttering and reinforcement for deck slab in progress. For 2nd span of tie beams (6 set of columns) concrete completed. Desk slab shuttering & reinforcement work in progress.
	WTP	9 MLD WTP at Angore	-	Cascade Aerator completed. Staff quarter work completed, Filter house completed. Filter house roof slab completed. Sludge storage yard beam completed. Chemical house PACL storage wall Completed. Chemical house Painting in progress. Admin

Contract description	Cumulative Progress of works up to 31.03.2024			
				building completed. Clarifloculator civil work completed and hydro test completed. CWR civil work completed and hydro test work progress. Slab for Head room of chemical house completed. Brick work and Plastering work in progress. Filter House Annexure Building Roof Slab Completed. Back Wash Tank completed. EMI Work for sludge dewatering unit, polydosing unit, CLF and volute press, EOT EMI works completed. Further EMI work in progress.
	Pump House (3 Nos)	1. At Teen Batti 2. At Kalkaji 3. At Sardulpura	-	1. Ground floor roof slab shuttering and reinforcement work in progress and Further works are in progress. MCC Room raft footing completed and column two lifts completed. slab completed and Further works are in progress. Brick work in progress. 2. CWR & Sump Side wall final lift completed and dome slab completed. 3. CWR-PH: PCC and Raft Completed. Side wall 2nd lift completed. Columns 2nd lift completed and ground floor slab completed. Further works are in progress. MCC Room Floor slab reinforcement work in progress, pump house outer plastering in progress.
	CWR	Existing CWR (3 Nos.) 1. 200 KL at Teen Batti 2. 567 KL at Kalkaji 3. 100 KL at Sardulpura	-	
		Proposed CWR (3 nos) 1. 470 KL at Teen Batti 2. 1450 KL at Kalkaji 3. 270 KL capacity at Sardulpura	-	1. Teen Batti CWR-PH: - Hydro test completed. 2. Kalkaji CWR-PH: - CWR sump portion and CWR wall final lift completed. CWR dome slab completed. Further works in progress. 3. Sardulpura CWR-PH: - CWR Hydro test is under progress.
	GLSR	Existing GLSR (3 Nos.) 1. 567 KL at Tankariya on hillocks	-	Comes under refurbishment plan and the works in progress

Contract description		Cumulative Progress of works up to 31.03.2024		
		2. 400 KL at Bhatakhera on hillocks 3. 200 KL at Bhatakhera hillocks		
		Proposed GLSR 1. 270 KL at Bhatakhera on hillocks 2. 580 KL at Tankeria on hillocks	-	-
	Tube well & Open Well	1. 05 Nos of Existing Open Well 2. 07 Nos of Existing Tube Well	-	Refurbishment work started for open wells and completed for 5 nos. and others are under progress.
	OHSR	Existing OHSR 2 nos of existing OHSR to be used 1. 200 KL capacity existing OHSR at RHB 2. 270 KL capacity existing OHSR at Sardulpura	-	Comes under refurbishment plan and to be started.
		Proposed OHSRs	-	-
	Population benefitted due to commissioned	35000		-
	Wastewater			
	STP (2 nos.)	5 MLD	-	Civil work and EMI work completed. Trial run under progress.
		1.7 MLD	-	PTU completed. TEER civil work completed and TEER hydro test completed. SBR civil work completed and decanter fixing work completed. Sluice gate and screen chambers installation.
				Installation up to date. 15.03.2024

Contract description	Cumulative Progress of works up to 31.03.2024			
	MPS	-	-	STP (5 MLD): MPS civil work completed. Hydro test completed. EMI Status Total EMI nos- Procured upto last month in nos Installation upto date. STP (1.7 MLD): MPS civil work completed. Hydro test completed. Total EMI nos- Procured upto last month in nos Installation upto date.
	SPS	-	-	-
	Lateral Sewer (upto dia 315)	78.76 Km	82.318	a) Supply: 82.318 km b) Laid: 81.028* km (Included outfall 1.573 km) (2.95* km length is Included in this 80.678km however, this (2.95km) length has not been executed due to not feasibility or not required as per site condition.) c) Testing: 77.521 km d) Deflection test: 75.50 km e) Commissioning: Nil
	Outfall (above dia 315)	3.9 Km	1.658 Km	a) Supply: - 1.658 km b) Laid: - 1.573 km c) Testing: - 1.502 km d) Commissioning:- Nil
	PVC-U Pipe (110 & 160 mm dia)	90 Km	—	a) Supply: - 58.372 km b) Laid: - 50.970 km c) Testing: - 49.200 km d) Commissioning:- Nil
	Manholes (All types)	5990	4800 Nos.	a) Supply: - 4340 nos b) Installation: - 4102 nos(including shallow manholes) c) Testing: -3721 nos a) Commissioning:- Nil
	Inspection Chamber (All types)	9000	11002 Nos	a) Supply: - 7249 nos b) Installation: - 6163 nos c) Testing: - 5700 nos d) Commissioning: - Nil
	d) FSM		-----	a) Total municipal wards 25 nos. Out of 25, 7 wards having density less than 100 person/ha. b) Total FSM coverage population is 18% c) Co-treatment provision fecal waste will be collected by super sucker machine and will be treated in STP.

Contract description	Cumulative Progress of works up to 31.03.2024		
	For Road Cutting & Restoration-		
	Item Description	Scope of Work	Progress made so far
	Road Cutting	Granular Course - 31585 cum CC- 20,980 cum BT -3170 cum	Kachha/WMM: - 81.750 km CC:- 49.40 km BT:- 10.15 km
	Road Restoration	Granular Course - 31585 cum CC- 20,980 cum BT -3170 cum	a) CC: 49.40 Km (upto PCC); 49.30 Km (upto CC) b) BT: 9.90 Km (upto WBM); 9.90 Km (upto BT) Kachha/WMM:- 81.750 km
	Building and Miscellaneous work		
	Item Description	Scope of Work	SIP Scope
	CRMC Building	1	-
	CCC Building	1	-
	MCC Building	1	-
	PLC SCADA	-	-
	Trenchless Work		
	HDPE Pipes	10.8 Km	9.59 km
			A) Supply: - 10.700 Km B) Laid: - 10.340 Km Km (Length increased and included in SIP-2) C) Testing: - 8.386 Km D) Commissioning:- Nil

Town: Pratapgarh

Contract description	Cumulative Progress of works up to 31.03.2024

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no - RSTDIP/PRT/01 Works under package- Construction Works of Providing Sewer Network with House sewer connections along with construction of Sewage Treatment Plant & Sewage pumping Station and all allied Work and operation services of the entire system for 10 years at Pratapgarh town Name of Contractor- Khilari Infrastructure PVT.LTD. Contract type- Design, Build and Operate Date of Start- 02.11.2020 Cumulative Physical Progress- 100 % Stipulated Date of completion - 01.11.2024	Wastewater			
	Item	Scope	SIP Scope	Progress
	STP (1 nos.)	7 MLD	7 MLD	100 % completed
	MWP	0.1 MLD	0.1 MLD	100 % completed
	SPS	7 MLD	7 MLD	100 % completed
	Lateral Sewer (up to dia 315)	87.830 Km	101.288 km	a) Supply: 103.114 Km b) Laid: -103.114 Km c) Testing: 103.114 Km e)Commissioning: 103.114Km
	Outfall (above dia 315)	3.33 Km	2.734 KM	a) Supply: 2.823 Km b) Laid: -2.823 km c) Testing: 2.823 km d) Commissioning: 2.823 Km
	DI K-7 Nala Crossing and MS Pipe carrier	0.246 Km	0.658 Km	a) Supply:1.027 Km b) Laid: -1.027 km c) Testing: 1.027 km d) Commissioning: 1.027 Km
	PVC-U Pipe (110 & 160 mm dia)	108 KM	88.091 KM	a) Supply: 75.396 Km b) Laid: -75.131 km c)Testing: 75.131 km d) Commissioning: 75.131 Km
	Manholes (All types)	6884 Nos.	6831 Nos	a) Supply (P1, P2, P3): 4701nos b) Installation:6605 Nos. c) Testing: 6605 Nos. d) Commissioning: 6605
	Inspection Chamber (All types)	10800 Nos.	11188 Nos	a) Supply: 10180 no's b) Installation: -10180 nos. c) Testing: 10180 Nos. d) Commissioning: 10180
	House Sewer connection	11100	11418	10298 Nos.
	FSM			Total municipal wards 40 Ward. Total FSM coverage population is 4.18 % Co-treatment provision FSSM collected sludge shall be treated at STP.
	For Road Cutting & Restoration-			
	Item Description	Scope of Work	SIP Scope	Progress made so far
	Road Cutting	a) CC: 29.6 Km b) BT: 64.2 Km c) Kuchha/WMM: 8.8 Km	a) CC: 51 Km b) BT: 58 Km c) Kuchha/WMM: 8.3 Km	• CC-47.183 Km • BT-44.937 Km • Kuccha -13.477 Km • Interlock tiles: 1.162 km

Contract description	Cumulative Progress of works up to 31.03.2024			
	Road Restoration	a) CC: 29.6 Km b) BT: 64.2 Km c) Kuchha/WMM: 8.8 Km	a) CC: 51 Km b) BT: 58 Km c) Kuchha/WMM: 8.3 Km	a) CC: 47.183 km (up to PCC), 47.183 km (up to CC) b) BT: 44.937 km (up to WMM) 44.937 km (up to BT) c) Kuccha- 13.477 Km d) Interlock tiles- 1.162 km
	Balance Road Restoration			CC-0 Km BT-0 Km Kuchha- 0 Km
Building and Miscellaneous work				
	Item Description	Scope of Work	SIP Scope	Progress made so far
	CRMC Building-1	1	1	100 % work completed
	CRMC Building -2	1	1	100 % work completed
	CCC Building	0	0	-
	MCC Building	2	2	Including STP & SPS
	PLC SCADA	2	2	Including STP & SPS
Trenchless Work				
	HDPE Pipes/DI K7	8.950 km	6.756 km	a) Supply: 4.090 km b) Laid: -4.090 km c) Testing: 4.090 km d)Commissioning: 4.090 Km
	RCC Pipes (600 to 765MM)	0.245 km	0.0 km	a) Supply: 0.0 Km b) Laid: - 0.0 Km c) Testing: NIL d) Commissioning: NIL
	MS Pipes	NIL	206 Mtr	a) Supply:206.2 Meter b) Laid: - 206.2 Meter c) Testing: Meter d)Commissioning:4.090 Meter

Town: Banswara

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no - RSTDIP/BNS/04 Works under package- Construction Works of Water Supply Production and Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply and Providing Sewer Network with House sewer connections along with construction of Sewage Treatment Plant & Sewerage Pumping Station and all	Water Supply			
	Item	Scope of work as per BOQ	SIP Scope	Progress
	Total distribution network	338.690 km	353.675 km	
	HDPE Pipe	43.220 km	57.612 km	a) Supply: - 57.612 km b) Laid: - 57.612 km c) Testing: - 55.112 km d) Commissioning: - 15.81 km
	DI Pipe K7	286.793 km	287.386 km	a) Supply: - 287.386 km b) Laid: - 287.386 km c) Hydro Testing: - 286.386 km d) Commissioning: - 107.301 km
	DI Pipe K9	8.677 km	8.677 km	a) Supply: - 8.677 km b) Laid: - 8.677 km

allied Works and operation services of the entire system for 10 years at Banswara. Name of Contractor- BIPL-SC-HP Joint Venture Contract type- Design, Build and Operate Date of Start- 15.02.2021 Cumulative Physical Progress- 91% Stipulated Date of completion – 14.02.2025				c) Hydro Testing: - 7.550 km d) Commissioning: - 2.75 km
	House Service Connection	23600 Nos	24111 Nos	a) Laying/Installation: - 23753 Nos. b) Testing: - 13425 c) Commissioning: 10289 Nos.
	Domestic Water Meter	23600 Nos	24111 Nos.	a) Supply: - 15000 Nos. b) Installation: - 6641 Nos. c) Testing: - 11032 Nos.
	Metering	EMFM- 32 Nos	EMFM- 32 Nos	a) Supply: - NIL b) Installation: - NIL. c) Testing: NIL d) commissioning: - NIL
		BFM- 18 Nos.	BFM- 18 Nos.	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
	Pressure Transmitters	72 Nos.	72 Nos.	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
	No. of DMAs	28 Nos.	28 Nos.	Trial & run – 13 Under Progress – 15 (75% Completed)
	WTP	9.25 MLD (AEn Campus)	1 no.= 9.25 MLD (AEn Campus)	1. Clarifloculator 01-Completed 2. Clarifloculator 02- Completed 3. Admin Building -Completed 4. Inlet chamber and connecting chamber - Completed. 5.CCT - Completed. 6.Sand Filter bed- Wedge weir installation work under progress. 7. Annex Building: - Completed. 8.Backwash Recovery Tank: - Completed 9. Staff Quarters: - Flooring work of tiles under progress. 10.Chemical House: - Electromechanical work under progress 11. Compound Wall: - Brick Masonry Work & Fencing work under Progress.
	Pump House (02 Nos.)	At Existing AEn Campus At Kagdi WTP Campus	2. At Existing AEn Campus 3. At Kagdi WTP Campus	1.Railing work is Under progress. 2. Panel room Plinth bean reinforcement & Formwork is in under progress. EMI STATUS: - Total EMI: - 10 (Electrical 2, Mechanical 4, Instrumentation 4) Procured: - 6 Installation: - 0 (Electrical 0, Mechanical 0, Instrumentation 0)

	CWR	CWR-1550 KL (AEn Campus, PHED main campus)	CWR-1550 KL (AEn Campus, PHED main campus)	Completed EMI STATUS: - Total EMI: - 5 (Electrical 1, Mechanical 2, Instrumentation 2) Procured: - 5 Installation: - 5 (Electrical 1, Mechanical 2, Instrumentation 2)
	OHSR		-	-
	Rehab work (WTP 10.40 MLD AEn Campus)	1. Clariflocculator 01- Clariflocculator Scrapper Bridge, motor and Gate Replace. 2. Inlet chamber and connecting chamber – Gates, Motors, hand railing & Cleaning work. 3. Sand Filter bed- Cleaning & Piping work. 4. Admin Building – Cleaning work, hand railing & Plaster work. 5. Annex Building – Air blower replace, Cleaning & Plaster work. 6. Staff Quarters - Cleaning & Plaster work. 7. Chemical House - Cleaning work, hand railing & Plaster work. 8. Backwash Recovery Tank - Cleaning work, hand railing & Plaster work and DI Pipe Replace.		Work Not yet started.
	Rehab work (WTP 6.75 MLD Kagdi Pickup)	1. Clariflocculator 01- Clariflocculator Scrapper Bridge, motor and Gate Replace. 2. Inlet chamber and connecting chamber – Gates, Motors, hand railing & Cleaning work. 3. Sand Filter bed- Cleaning & Piping work. 4. Admin Building – Cleaning work, hand railing & Plaster work. 5. Annex Building – Air blower replace, Cleaning & Plaster work. 6. Staff Quarters - Cleaning & Plaster work. 7. Chemical House - Cleaning work, hand railing & Plaster work. 8. Backwash Recovery Tank - Cleaning work, hand railing &		1. Clariflocculator 01- Not yet started. 2. Inlet chamber and connecting chamber – Not yet started. 3. Sand Filter bed- Not yet started. 4. Admin Building – Inner & Outer side plaster work completed. 5. Annex Building – Not yet started. 6. Staff Quarters – Inner & Outer side plaster work completed. 7. Chemical House – Not yet started. 8. Backwash Recovery Tank - Not yet started.

		Plaster work and DI Pipe Replace.	
	Rehab work CWR (AEn campus) (2088 KL)	Pumps, Motors, valves, DI piping, cleaning work, plaster work etc.	Work not yet started.
	Rehab work CWR (Kagdi) (1044 KL)	Pumps, Motors, valves, DI piping, cleaning work, plaster work etc.	Work not yet started.
	Rehab work CWR (EE office PHED) (540 KL)	Pumps, Motors, valves, DI piping, cleaning work, plaster work etc.	Work not yet started.
	Rehab work (Pump House AEn campus)	Pumps, Motors, valves, Gates, EOT, DI Pipes, Cable tray, Transformer, DG set, Hand railing, cleaning work, plaster work etc.	Work not yet started.
	Rehab work (OHSR – 16 Nos.)	Plaster work, Paints, hand railing, plinth protection, valves etc. (16 Nos.)	Plaster work and paint work is under progress.
	Population benefitted due to commissioned	1,18,000 Nos.	1,20,555 Nos.
	Wastewater		
	STP (1 nos.)	9.60 MLD (existing STP Campus)	1.SBR- Electromechanical Installation work is under Progress. 2.MPS- Electromechanical Installation work is under progress. 3.Staff Quarter- Civil Work Complete. 4.TEER- Electromechanical Installation work under progress. 5.Admin Building- LT Panel Installation work is under progress. 6.TESR- Electromechanical Installation & painting work is under progress. 7.PTU- Electromechanical Installation work is under progress. 8.CCT- Electromechanical Installation & painting work is under progress. 9.Sludge Building: - Sludge dewatering machine installation work is under progress. 10.Sludge Sump - Electromechanical Installation work under progress. 11.Inlet Chamber - Electromechanical Installation work under progress

	STP (Upgradation)	6.34 MLD	6.34 MLD	Protection wall work under progress
	SPS	SPS-1 : 0.67 MLD (Ward no. 21 near Nathelav Pond)	SPS-1 : 0.67 MLD (Ward no. 21 near Nathelav Pond)	Civil Work: - Electromechanical Installation work in progress. EMI STATUS: - Total EMI: - 8 (Electrical 3, Mechanical 3, Instrumentation 2) Procured: - 8 Installation: - 4 (Electrical 2, Mechanical 2, Instrumentation 0)
		SPS-2: 1.7 MLD (Ward no. 1 near Pratapgarh Road)	SPS-2: 1.7 MLD (Ward no. 1 near Pratapgarh Road)	Civil Work: - Electromechanical Installation work in progress. EMI STATUS: - Total EMI: - 8 (Electrical 3, Mechanical 3, Instrumentation 2) Procured: - 8 Installation: - 4 (Electrical 2, Mechanical 2, Instrumentation 0)
	Lateral Sewer (up to dia 300 HDPE-DWC)	81.559 km	Total = 99.456 km	• a) Supply: - 99.458 km • b) Laid: - 99.458 km • c) Testing: - 98.764 km • d) Deflection test: - 97.250 Km e) Commissioning-16.766 km
	Outfall (above dia 300 RCC NP4)	6.431 KM	Total = 2.670 km -	• a) Supply: 2.651 km • b) Laid: 2.651 km • c) Testing: - 2.565 Km d) Commissioning: - 0 km
	PVC-U Pipe (110 & 160 mm dia)	Total = 138 Km	98.275 Km	• a) Supply: - 80.103 km • b) Laid: - 63.50 km • c) Testing: - 50.850 km d) Commissioning: - 21.728 km
	Manholes (All types)	Total = 6338 Nos Precast RCC MH=2086 Shallow MH = 4020 Sewer-Brick MH=232	Total= 5578 Nos. Precast RCC MH=3256 nos Shallow MH= 2090 nos Sewer-Brick MH=232	• a) Supply: - 3620 Nos • b) RCC Manhole Installation: - 3586 Nos • c) Shallow Manhole-1857 Nos • d) Type A- 48 Nos • e) Type-C- 70 Nos • Total Installation: - 5564 • f) Testing: - 5300 Nos g) Commissioning: - 838 Nos
	Inspection Chamber (All types)	Total = 13800 Nos	12170 nos.	• a) Supply: - 11500 Nos • b) Installation: 11164 Nos • c) Testing: - 7890 Nos d) Commissioning: - 2514 Nos
	HSC	Total = 11251 Nos	11251 nos.	• 6447 Nos.

	FSSM	Covers 16697 Nos Population	Covers 16697 Nos Population	Sewer Jetting Machine (500L) - Quantity – 2 Sewer Suction Cum Jetting Machine (4000L) – Quantity – 1 Sewer Suction Machine (1000L) – Quantity – 1 Sewer Suction Machine (4000L) - Quantity – 1
	Population benefitted due to commissioned	Covers 72952 Nos Population	-	• Benefited 27160 Nos Population
For Road Cutting & Restoration-				
	Item Description	Scope of Work	Progress made so far	
	Road Cutting	-	CC: - 53.774 km BT: - 43.941 km Kuccha/WMM: - 251.751 km Interlock Tiles: - 3.995 km	
	Road Restoration		CC: - • (up to PCC): -53.774 km • (up to CC): - 53.707 km BT: - • (up to WMM): - 43.941 km • (up to BT): - 43.696 km c) Kuccha/WMM: - 251.751 km d) Interlock Tiles: - 3.995 km	
	Balance Road Restoration (Km)		CC: - (upto PCC):- 0 km (upto CC):- 0.067 km BT: - (upto WMM):- 0 km (upto BT):- 0.245 km Kuccha/WMM: - 0.0 km • Interlock Tiles: - 0.0 km	
Building and Miscellaneous work				
	Item Description	Scope of Work	Progress made so far	
	CRMC Building (03 Nos.)	1. At AEN campus	• 1. CRMC (AEN Campus)- Civil Work is Completed and Furniture work is under progress	
		2. At Dahod Road (Khandu Colony)	• 2. CRMC (Khandu Colony) Civil Work is Completed and Furniture work is under progress	
		3. At Housing board colony	• 3. CRMC (housing board)- Civil Work is Completed and Furniture work is under progress	
	CCC Building 1 No.	At AEN campus	• Civil Work is Completed and Furniture work is under progress.	

	MCC Building 1 No.	At AEn Campus	Civil Work is Completed and Electromechanical work is under progress.
	PLC SCADA	-	SCADA Not Procured at Site
	Trenchless Work		
	HDPE pipe (Trenchless)	Total=6 .040 km	Supply: - 6.040 km Laid: - 6.028 km Testing: - 5.500 km Commissioning: - 0.309 km

Town: Kuchaman

Contract description	Cumulative Progress of works up to 31.03.2024			
Town: Kuchaman				
Package no - RSTDIP/KMN/02 Works under package- Construction Works of Water Supply Production and Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply and Providing Sewer Network with House sewer connections along with construction of Sewage Treatment Plant and Sewerage Pumping Station: all allied Works and operation services of the entire system for 10 years at Kuchaman Name of Contractor- M/s. Larsen & Turbo Pvt. Ltd. Contract type- Design, Build and Operate Date of Start- 18.5 2021 Cumulative Physical Progress- 69% Stipulated Date of completion – 31.10.2024	Water Supply			
	Item	Scope of work	SIP Scope	Progress
	Total distribution network	343.59 km	417.64 km	-
	HDPE Pipe	327.7 km	400.57 km	a) Supply: - 380.797km b) Laid: - 360.058 Km. c) Testing: - 323.26 km d) Commissioning: - km
	DI Pipe K7	4.8 Km	6.14 km	a) Supply: - 6042 mtr b) Laid: - 3981.55 mtr c) Hydro Testing: -3981.55 m d) Commissioning: - m
	DI Pipe K9	11.13 km	10.93 km	a) Supply: - 10880 mtr b) Laid: - 8985.00 mtr. c) Hydro Testing: -8228.66 mtr d) Commissioning: - Km
	House Service Connection	14900 Nos	14900 nos.	a) Laying/installation: - b) Laid – 11868 nos c) Testing: -10374 nos d) Commissioning: -nos
	Domestic Water Meter	14900 Nos	14900 nos.	a) Supply: - nos. b) Installation: - nos. c) Testing: - nos. d) Commissioning: - nos.
	Metering	EMFM	EMFM	a) Supply: - nos. b) Installation: - nos. c) Testing: - nos. d) Commissioning: - nos
		BFM	BFM	a) Supply: - nos. b) Installation: - nos. c) Testing: - nos. d) Commissioning: - nos
	Pressure Transmitters	0 Nos.	-	a) Supply: - nos. b) Installation: - nos. c) Testing: - nos. d) Commissioning: - nos
	No. of DMAs	12 Nos.	23 nos.	-

Contract description	Cumulative Progress of works up to 31.03.2024			
	RWR	-	-	-
	WTP	NIL	-	-
	Pump House (04 Nos)	Pump House - 1 (600 KL)	Pump House - 1 (600 KL)	Concreting work completed up to second roof slab & brickwork is in progress. Note-Cumulative progress : Design & Drawing, Civil work and EMI (24.97%)
		Pump House – 2 (Panchwa Road 1200 KL)	Pump House – 2 (Panchwa Road 1200 KL)	RCC work completed & brick, plaster work, mechanical work - erection EOT work completed header of pumps & window fixing work is in progress. Note-Cumulative progress : Design & Drawing, Civil work and EMI (24.97%)
		Pump House 3 (Jagdamba Colony 920 KL)	Pump House 3 (Jagdamba Colony 920 KL)	Concreting work of second slab is completed and shuttering & reinforcement work of stair case, brick work at pump hose & foundation of DG set and transformer work is in progress. Note-Cumulative progress : Design & Drawing, Civil work and EMI (24.97%)
		Pump house 4 (OLD PHED H/w Budsu Road 730 KL)	Pump house 4 (OLD PHED H/w Budsu Road 730 KL)	RCC work completed up to roof slab, brick work almost completed & plaster work & shuttering work & reinforcement of mumty of staircase of pump house & mechanical work - Installation of common header, assembled work of EOT, NRV, butter fly valve etc. is in progress. Note-Cumulative progress : Design & Drawing, Civil work and EMI (24.97%).
	CWR 04 Nos.	CWR 1 (600 KL)	CWR 1 (600 KL)	Concreting of CWR & sump wall is completed up to top slab beam level & reinforcement & shuttering work of final lift & top dome is in progress.
		CWR 2 (1200 KL)	CWR 2 (1200 KL)	RCC work of CWR & staircase completed and mechanical work is in progress.
		CWR 3 (920 KL)	CWR 3 (920 KL)	CWR concreting work of dome & staircase is completed.

Contract description	Cumulative Progress of works up to 31.03.2024			
		CWR 4 (730 KL)	CWR 4 (730 KL)	Civil work completed. Preparation of hydrates of CWR & railing work in progress.
	OHSR	Nil		-
	Rehab work (WTP,PH,CWR, OHSR etc.)	-		-
	Population benefitted due to commissioned	74000	-	100 %
	Wastewater			
	STP (1 nos.)	7.60 MLD Near Dussehra Maidan	7.60 MLD Near Dussehra Maidan	1. Admin Building - All RCC & brick work of Admin building completed, plaster work & erection work of blower is completed. 2. SBR: Civil work completed and hydro test of one basin completed and preparation for hydro test of second basin in progress. 3. Staff quarter: plaster work (inner & outer) completed and finishing work is in progress. 4. PTU: RCC work completed & mechanical work in progress. 5. TEER – Hydro test & painting work and plinth protection are completed & piping work is completed & valve chamber work is balance. 6. MPS: Concreting work and sinking completed and PCC and Raft reinforcement work is in progress. 7. Security Room: RCC work completed up-to roof slab. 8. Parking Shed: reinforcement & shuttering work of tie beam in progress. Note-Cumulative progress: Design & Drawing, Civil work and EMI (19.22%).

Contract description	Cumulative Progress of works up to 31.03.2024			
	SPS	3.10 MLD	3.10 MLD	Concreting of platform of inlet chamber is complete & guardroom roof slab is completed & reinforcement & shuttering work of final lift of wet well is in progress. Note-Cumulative progress: Civil work plus Design & Drawing (4.56%)
		0.85 MLD	0.85 MLD	Plasterwork of boundary wall completed & finishing work of guardroom & meter room & foundation work of transformer & DG Set is in progress. Note-Cumulative progress: Design & Drawing, Civil work and EMI (5.36%)
	MPS	1	1	Concreting work and sinking completed and PCC and Raft reinforcement work is in progress.
	Lateral Sewer (up to dia 315)	148.942 Km	136.28 Km	a) Supply: 122.364 km b) Laid: 117.173km c) Testing: 95.510 km d) Deflection test: 95.510 Km e) Commissioning- 0 km
	Outfall (above dia 315)	3.62 Km	3.38 km	a) Supply: 3.20 km. (Total) b) Laid: 3.066 Km c) Testing: 2.335 mtr d) Commissioning
	PVC-U Pipe (110 & 160 mm dia)	108.0 Km	60.2 km	a) Supply: - 60.2 km b) Laid: - 36.20 km c) Testing: 33.521 Km d) Commissioning: -
	Manholes (All types)	10352 Nos.	7910 km	a) Supply: 6588 Nos b) Installation: - 5984 Nos c) Testing: - 5279 Nos d) Commissioning: -
	Inspection Chamber (All types)	10800 Nos.	10800 nos.	a) Supply: 9750 Nos b) Installation: -9118 Nos c) Testing -7273 nos. d) Commissioning: - nos.
	Population benefitted due to commissioned	-		-
	For Road Cutting & Restoration-			
Item Description		Scope of Work		Progress made so far
Road Cutting		a) CC:47.01 Km b) BT:14.9 Km c) WMM: 0 Km d) Kuchha: 125.7		a) CC-86.92 km b) BT-12.10 km c) WMM: - 2.03 Km d) Kaccha: 206.06 km

Contract description	Cumulative Progress of works up to 31.03.2024			
	Road Restoration	a) CC: 45.99Km b) BT: 4.50 Km c) Kuchha: 125.7 d) WMM: 0 Km	a) CC: 86.66 km (up to CC) b) BT: 10.63 km (up to PMC) 0 km (up to BT) c) WMW: 2.03 km d) Kaccha: 206.06 km	
	Balance Road Restoration (Km)	a) CC: Km b) BT: Km c) WMM: Km d) Kuchha	a) CC-0.43 km b) BT-1.88 km c) WMM: -Km d) Kaccha: Nil	
Building and Miscellaneous work				
S.No.	Item Description	Scope of Work	SIP Scope	Progress made so far
A	CRMC centre	CRMC 01	CRMC 01	Required land for SPS01 and CRMC 01 is demanded 40X40 m but Nager parishad has provide land 2102.37 Sq ft. Which less against required land, So SPS will be on priority after that space available for CRMC building would be constructed.
		CRMC 02	CRMC 02	Furnishing & finishing work is pending.
B	CCC Building	1	1	Furnishing & finishing work is pending.
C	MCC Building	1	1	RCC and plasterwork completed. Flooring work & painting work is in progress.
D	PLC SCADA	1	1	NIL
Trenchless Work				
S.No.	Item Description	Scope of Work	SIP Scope	Progress made so far
A	HDPE Pipes	8.2 Km	10.11 KM	a) Supply: - 9.70 km b) Laid: - 8.235 km. c) Testing: - 7.40 Km. d) Commissioning: - km
B	RCC Pipes	3.620 Km		a) Supply: 2.11 Km b) Laid: -1.028 Km c) Testing: Nil d) Commissioning: Nil
C	MS Pipes	-	-	a) Supply: Meter b) Laid: - Meter c) Testing: Meter d) Commissioning: Meter

Town: Didwana

Contract description	Cumulative Progress of works up to 31.03.2024
	Wastewater

Package no - RSTDIP/DID/01 Works under package- Construction Works of Providing Sewer Network with House sewer connections along with construction of Sewage Treatment Plant & Sewage pumping Station and all allied Works and operation services of the entire system for 10 years at Didwana Name of Contractor- M/s. Larsen & Turbo Limited Contract type- Design, Build and Operate Date of Start- 18.5.2021 Cumulative Physical Progress- 81% Stipulated Date of completion - 16.05.2024	Item	Scope	SIP Scope	Progress
	STP	3.0 MLD	3.0 MLD	• SBR Unit: - Civil Work including Hydro testing & Paint completed. • PTU: - Civil Work including Hydro testing & Paint completed. • Admin Building: -All civil work completed Except Door & window. • TEER: - PCC, Raft completed & 4th Brace Beam Completed. • Staff Quarter: - All civil work completed Except Door & window. • MPS: - Casting of Sump and sinking work completed • EMI: - Decanter, Air Blower, Sludge Dewatering Machine, PTU unit equipment installed.
	MPS	-	-	Casting of Sump and sinking work completed
	SPS 02 Nos.	SPS-1: 1.7 MLD (Salt area)		Sinking of sump is completed, sump slab work in progress. Guard Room & Meter Room Excavation, PCC, footing and column up- to slab completed, Brick work in progress. EMI: - Inlet Chamber equipment & Coarse Screen procured and stacked
		SPS -2: 1.3 MLD (RSEB Campus)	SPS -2: 1.3 MLD (RSEB Campus)	Boundary wall & Sump work Completed. Guard Room & Meter Room Excavation, PCC, footing, column and roof slab completed and plaster work completed and painting work in progress. EMI: - Inlet Chamber equipment & Coarse Screen procured and stacked at site and installation work in progress.
	Lateral Sewer (upto dia 315)	• 200 mm HDPE (DWC SN8)- 1600mtr • 250 mm HDPE - 100/PN-6)- 6500mtr • 250 mm HDPE (DWC SN8)- 48400mtr • 315 mm (HDPE- 100/PN-6)- 975 mtr	• 200 mm (HDPE (DWC SN8) - 42739mtr • 250 mm (HDPE PE- 100/PN-6) – 4837mtr • 250 mm (HDPE (DWC SN8) – 640mtr • 315 mm (HDPE PE- 100/PN-6) – 1149mtr	a) Supply: 200mm (DWC) :45.688 km 250mm (DWC): 0.640 km b) Laying Laid: 44.590 km (200mm DWC) Laid: 0.667 Km (250mm DWC) c) Testing: 42.741 km d) Deflection test: 42.741 Km e) Commissioning- 24.20 km

	Outfall (above dia 315)	• 350mm (RCC NP-4) – 200mtr • 400mm (HDPE PE-100/PN-6) – 2525mtr • 900mm(RC CNP-4) – 800 mtr	• 350mm (RCC NP-4) – 366mtr • 400mm (HDPE PE-100/PN-6) – 43 mtr • 900mm(RC CNP-4) – 800 mtr	a) Supply: 0.675 km b) Laid: 0.675 km c) Testing: 0.529 Km d) Commissioning
	PVC-U Pipe (110 & 160 mm dia)	• 110mm - 37490mtr • 160mm – 6510mtr	• 110mm – 16782 mtr • 160mm – 2916mtr	a) Supply: - 22.00 km (110mm) 4.088 km (160mm) b) Laid: - 20.149 km (110mm) c) Laid: - 3.227 Km (160mm) d) Testing: 18.50 Km (110mm) e) Testing: - 2.90 Km(160mm) f) Commissioning:- 9.84 Km
	Manholes (All types)	4137 (Nos)	2372 (Nos)	a) Supply: -2470 Nos b) Installation: - 2323 Nos c) Testing: - 2120 Nos d) Commissioning:- 1161
	Inspection Chamber (All types)	4400 Nos	3283 Nos	a) Supply: - 3683 Nos b) Installation: - 3548 Nos c) Testing: - 3090 nos. d) Commissioning: - 1766 nos.
	Population benefitted due to commissioned	36184	36184	
	House Sewer Connection	3800 (Nos)	3683 Nos.	3408 Nos Completed
	DI Pumping Main	150mm-1100 mtr 200 mm-2600 mtr	300mm-1300 mtr 250 mm-2400mtr	a) Supply: - 2310.0 Mtr (250mm) b) Supply: - 1300 Mtr (300mm) c) Laying: - 2159.0 (250mm) Mtr d) Laying: - 1235.0 Mtr. (300mm)
For Road Cutting & Restoration-				
	Item Description	Scope of Work	Progress made so far	
	Road Cutting	a) CC: Km b) BT: Km c) Kuchha/WMM: Km	a) CC: 30.69 km b) BT: 5.245 km c) WBM: 0.447 d) Kuchha: 17.08 Km e) Interlocking Tiles: 0.778 Km	
	Road Restoration	a) CC: Km b) BT: Km c) Kuchha: Km	a) CC: 30.52 km (up to PCC); b) BT: 5.245 Km (up to WBM); • 5.245 Km (up to BT) c) WBM: 0.447 Km d) Kuchha: 17.08 Km f) Interlocking Tiles: 0.778 Km	
Building and Miscellaneous work				
	Item Description	Scope of Work	SIP Scope	Progress made so far

	CRMC Building	1	1	Civil work 100% Completed.
	CCC Building	-	-	-
	MCC Building	-	-	-
	PLC SCADA	-	-	-
	Trenchless Work			
	Item Description	Scope of Work	SIP Scope	Progress made so far
	HDPE Pipes	• 250mm (HDPE PE-100/PN-6) – 6500 mtr • 315mm (HDPE PE-100/PN-6) – 975 mtr • 400mm(HDPE PE-100/PN-6) – 2525 mtr	• 250mm (HDPE PE-100/PN-6) – 4837 mtr • 315mm (HDPE PE-100/PN-6) – 1149 mtr • 400mm(HDPE PE-100/PN-6) – 43 mtr	a) Supply: - 6.692 Km (250,315,400mm) b) Laid:5.456 Km (250mm HDPE) c) Laid: 1.128 Km (315mm HDPE) d) Laid: 0.041 Km (400mm) e) Testing: -6.299 Km f) Commissioning: - 3.00 km
	RCC Pipes	NIL		a) Supply: Nil b) Laid: Nil c) Testing: Nil d) Commissioning: Nil
	MS Pipes	NIL		a) Supply: Nil b) Laid: Nil c) Testing: Nil d) Commissioning: Nil

Town: Ladnu

Contract description	Cumulative Progress of works up to 31.03.2024		
Package no - RSTDIP/LDN/01 Works under package- Construction Works of Providing Sewer Network with House sewer connections along with construction of Sewage Treatment Plant and all allied Works and operation services of the entire system for 10 years at Ladnu (Nagaur)	Waste Water		
	Item	Scope	Progress
	STP (2 nos.)	5.5 MLD	Staff quarter: - Ground floor slab casting completed. F. Floor column steel work under progress Admin Building: - Outer side plaster work SBR: - Civil work completed, Decanter installation done, Basin -1 hydro testing completed. Hydro testing basin-2 in progress. TEER Unit: - Main Ring Beam Steel shuttering work under progress. PTU Unit: - Civil work completed and EMI equipment installation work in

Name of Contractor- M/s. Larsen & Turbo Limited Contract type- Design, Build and Operate Date of Start- 18.5 2021 Cumulative Physical Progress- 67 % Stipulated Date of completion – 16.5.2024			progress. MPS: - Final slab completed. Monorail column and Beam work completed. Finishing work in progress. Guard & Metering Room & DG,RMU,Transformer - Excavation work completed & pcc work under progress.
		2.4 MLD	SBR: - Outer Decanter Beam Steel Binding & shuttering work in progress. Walk way slab completed (periphery side). PTU Unit: - Column completed up to bottom of slab. First floor stair case shuttering work in progress. Admin Building: - Ground floor slab casting completed. Ground floor brick work in progress. Blower room roof slab shuttering in progress. MPS: - Layout work done. TEER: - PCC work is completed. Staff quarter: - Work Complete up to bottom of slab (2nd lift column done in Ground Floor).
	Lateral Sewer (up to dia 315)	97.164 km	a) Supply: 97.756 km b) Laid: 94.810 km c) Hydro Testing: 92.958 km
	Outfall (above dia 315)	9.527 km	a) Supply: 9.972 km b) Laid: 8.744 km
	PVC-U Pipe (110 & 160 mm dia)	78.88 Km	a) Supply: 69.732 km b) Laid: - 44.90 km
	Manholes (All types)	5355 nos.	a) Supply: 4423 Nos b) Installation: 4286 Nos
	Inspection Chamber (All types)	13148 Nos.	a) Supply: 9779 Nos. b) Installation: 9555 Nos
	Population benefitted due to commissioned	-	-
	For Road Cutting & Restoration-		
	Item Description	Scope of Work	Progress made so far
Road Cutting	a) CC: Km b) BT: Km c) Kuchha/WMM: Km	a) CC/CB: 87.538 km b) BT: 3.621 km c) Kachha: 12.395 Km	
Road Restoration	a) CC: Km b) BT: Km c) Kuchha/WMM: Km	a) CC/CB: 87.100 km (up to CC top layer). b) BT: 3.621 Km c) Kachha: 12.395 Km	
Balance Restoration		a) CC/CB: 0.438 Km b) BT: 0.00 c) Kachha: 0 Km Total =0.438 km	

	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	CRMC Building	2	Civil work completed (95%)
	CCC Building	0	-
	MCC Building	0	-
	PLC SCADA	1	-
	Trenchless Work		
	Item Description	Scope of Work	Progress made so far
	HDPE Pipes	6.048 km	a) Supply: 7.149 Km b) Laid: -4.282 Km c) Testing: NIL d) Commissioning: NIL
	RCC Pipes	2.55 Km	a) Supply: 9.972 Km b) Laid: - 8.744 Km c) Testing: NIL d) Commissioning: NIL
	MS Pipes	0.06 km	a) Supply: NIL b) Laid: -NIL c) Testing: NIL d) Commissioning: NIL

Town: Makrana

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no - RSTDIP/MKN /01 Works under package- Construction Works of Providing Sewer Network with House sewer connections along with construction of Sewage Treatment Plant & Sewage pumping Station and all allied Works and operation services of the entire system for 10 years at Makrana	Wastewater			
	Item	Scope of work	SIP Scope	Progress
	STP (01 No.)	7.7 MLD	7.7 MLD	Admin Building –Paint work is running and Pump Foundation work is completed, Internal & external Please work is completed. SBR – Hydro testing work is almost completed, Grinding work is completed and Railing work is Completed. PTU- Mechanical work is in under progress and hydro testing work is completed. Staff quarter – Plaster work is running.

Name of Contractor- M/s. Larsen & Turbo Limited Contract type- Design, Build and Operate Date of Start- 18.5.2021 Cumulative Physical Progress 85 % Stipulated Date of completion – 16.5.2024				MPS – Civil work is completed. TEER – Top dome vertical casting work is in progress.
	SPS (02 Nos.)	SPS-1: 2.3 MLD (Jhalara Road)	SPS-1: 2.3 MLD (Jhalara Road)	Paint work is in progress. civil work is Completed.
		SPS-2: 1.80 MLD (Matabhar Road)	SPS-2: 1.80 MLD (Matabhar Road)	Paint work is running civil work is completed.
	Lateral Sewer (upto dia 315)	• 200mm (HDPE DWC SN8)- 78694mtr • 250mm (HDPE PE- 100/PN-6)-5925 mtr • 250mm (HDPE DWC SN8)- 1096 mtr • 315mm (HDPE PE- 100/PN-6)-1361 mtr	• 200mm (HDPE DWC SN8) - 88435 mtr • 250mm (HDPE PE- 100/PN-6) – 8825 mar • 250MM (HDPE DWC SN8) – 250 mtr 315mm (HDPE PE- 100/PN-6) – 2001mtr	Supply: - • 88.435 km (200mm DWC) • 0.108 km (250mm DWC) • 8.825 KM (250 mm HDPE Trenchless) • 1.462 KM (315 mm HDPE Trenchless) Laid Pipeline: - • Laid: 88.382km (200mm DWC) • Laid: 0.108 Km (250mm DWC) • Laid: 7.816 Km (250mm HDPE Trenchless) • 1.236 Km (315mm HDPE Trenchless) • Testing: 88.382 km (200mm DWC) • Testing: 0.108 km (250mm DWC) • Deflection test: 88.382 Km (200mm DWC) • Testing: 7.816Km (250 mm HDPE Trenchless) • Testing: 1.231 Km (315 mm HDPE Trenchless) • Testing: 0.840 Km (400 mm HDPE Trenchless) • Commissioning-Km
	Outfall (above dia 315)	• 350mm (RCC NP-4)- 3076 mtr • 400mm (RCC NP-4)-62 mtr • 400mm (HDPE PE- 100/PN-6)-533 mtr (SIP 859.65 mtr)	• 350mm (RCC NP-4) - 3076 mtr • 400mm (RCC NP-4) – 62 mtr • 400mm (HDPE PE- 100/PN-6) – 859.65 mtr • 1200mm (RCC NP-	• Supply: 2.597 km (350 mm RCC pipe) • Laid: 2.440 km (350 mm RCC pipe) • Supply: 0.859 km (400 HDPE) • Laid: 0.840 km (400 mm HDPE pipe) • Commissioning

		• 1200mm(RCC NP-4)-500 mtr	4) – 500 mtr	
PVC-U Pipe (110 & 160 mm dia)	• 110mm- 78660mtr • 160mm- 10340mtr	• 110mm – 55009 mtr • 160mm – 5490 mtr	a) Supply: 55.009 km (110mm) 5.490 km (160mm) b) Laid: - 39.666km (110mm) 4.763 Km (160 mm) c) Testing: 38.950 (110 mm) Km, 4.693 (160 mm) d) Commissioning:	
Manholes (All types)	6806 Nos.	4568 Nos	a) Supply: 4791Nos b) Installation: 4733Nos c) Testing: - 4695 Nos d) Commissioning: -	
Inspection Chamber (All types)	8900 Nos.	9717 Nos	a) Supply: 8330Nos b) Installation: - 7866Nos c) Testing: - 7806nos. d) Commissioning: - nos.	
House Sewer Connection	8000 Nos.	7877 Nos	HSC fully Installation: - 4201Nos HSC up to Chamber – 3004Nos Total House Sewer Connection -7205	
DI Pumping main	200mm- 800Mtr 250mm- 800Mtr	250mm- 700Mtr 300mm- 1000Mtr	Supply: 0.654km (250 mm), 1.000 Km (300 mm) Laid: - 0.615 km (0.250 mm), 0.975Km (0.300 mm)	
Population benefitted due to commissioned	53777	53777		
For Road Cutting & Restoration-				
Item Description		Scope of Work		Progress made so far
Road Cutting		a) CC: Km b) Interlocking tiles: Km c) BT: Km d) WMM: Km e): Kuchha : Km		a) CC: 39.634 km b) Interlocking tiles: 4.284 Km c) BT: 4.262 km d) WMM: 1.529 Km e) Kachaa: 51.113 km
Road Restoration		c) CC: Km d) Interlocking tiles: Km c) BT: Km d) WMM: Km e): Kuchha : Km		a) CC: 39.610km b) Interlocking tiles: 4.284 Km c) BT: 4.262 Km d) WMM: 1.529KM e) Kuccha: 51.113 Km
Building and Miscellaneous work				
Item Description		Scope of Work		Progress made so far
CRMC Building		1		Fixing of aluminum partition, Ac and chair 100 completed. Fixing of Aluminum Doors, Windows and Aluminum Grills for Windows with Door for Gents and Ladies Toilet 100 % completed. Inside and Outside Painting 1st coat 100% completed. Painting for MS main gate cum Wicket Gate 1st coat 100% completed. Laying of interlocking paver tiles around the premises 100 % completed and Laying

			of Stone Tiles 100% completed on Plinth Protection.

Town: Khetri

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no - RSTDIP/KTR/03 Works under package- Construction Works of Water Supply Production and Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply and Providing Sewer Network with House sewer connections along with construction of Sewage Treatment Plant and all allied Works and operation services of the entire system for 10 years at Khetri. Name of Contractor- M/s. Lahoty-LNA (JV), Jaipur Contract type- Design, Build and Operate Date of Start- 22.03.2021 Cumulative Physical Progress- 65% Stipulated Date of completion – 20.03.2024 Likely date of completion - 30.06.2024	Water Supply			
	Item	Scope of work	SIP Scope	Progress
	Total distribution network	50.38 km	54.823 km	Supply: -54.823 km Laid: -51.426 km Testing: -32.807 km Commissioning: -0.00 km
	HDPE Pipe (Dia. 20,25 & 32 mm)	22 km	22 km	Supply: -22.00 km Laid: -10.450 km Testing: -0.00 km Commissioning: -0.00 km
	DI Pipe K7	44.11 Km	48.28 km	Supply: -48.280 km Laid: -45.589 km Hydro Testing: -31.334 km Commissioning: -0.0 km
	DI Pipe K9	6.274 km	6.535 km	Supply: -6.535 km Laid: -5.837 km Hydro Testing: -0.889 Km Commissioning: -0.00 Km
	House Service Connection	4400 Nos	4400 Nos	Laying / installation: -2450 nos. Testing: - nos. Commissioning: -nos.
	Domestic Water Meter	4400 Nos	4400 Nos	Supply: - 2500 nos. Installation: - 1250 nos. Testing: - nos. Commissioning: - nos.
	Metering	EMFM-17 nos.	EMFM- 7 nos.	a) Supply: Nos b) Installation: - Nos c) Testing: Nos d) Commissioning: Nos
		BFM – 13 nos.	BFM – 2 nos.	a) Supply: Nil b) Installation: - Nil c) Testing: Nil d) Commissioning: Nil
	Pressure Transmitters	28 Nos.	8 nos.	a) Supply: Nil b) Installation: -Nil c) Testing: Nil d) Commissioning: Nil
	No. of DMAs	9 Nos.	9 nos.	-
	Pump House	2 nos.	2 nos.	AEn campus- Pump installation work is completed. (86%). JEn Campus- Pump installation work is going on. (75%).
	CWR (500 KI)	1 nos.	1 No.	Civil work completed. Pipes fitting & connecting to pump house work is going on.

	Rehab work (WTP,PH, CWR, OHSR etc.)	OHSR/GLSR-07 nos. and 7 nos. of tube wells survey work completed.		
	Population benefitted due to commissioned	18,209 souls		
	Wastewater			
	STP (1 nos.)	3.15 MLD	3.15 MLD	SBR- Actuator Beam Shuttering & R/F binding work is completed. MPS- up to plinth level work is completed, column R/F binding work is going on. Coarse screen channel- Platform slab casting work is completed. Staff Quarter- Civil work is completed. TEER- Repair & painting work is going on. Admin Building- 1st floor Slab work is completed; top slab shuttering work is going on. CCT-TESR- Civil work is completed. PTU- Slab shuttering work is going on.
	Lateral Sewer (up to dia 315)	31.325 Km	32.556 km	Supply: -30.00 km Laid: - 27.861 km Testing: -18.194 km Deflection test: - 0.0 Km Commissioning:-0.0 Km: Nil
	Outfall (above dia 315)	2.897 Km	2.522 km	Supply: -2.420 Km. Laid: -2.296 km Testing: - 0.00 Km Commissioning
	PVC-U Pipe (110 & 160 mm dia)	45.0 Km	20.480 km	Supply: - 10.468 km Laid: -9.00 km Testing: -1.800 Km Commissioning: -
	Manholes (All types)	2231 Nos.	1857 Nos.	Supply: -1378 Nos. Installation: -1246 Nos. Testing: -678 Nos. Commissioning: -
	Inspection Chamber (All types)	4500 Nos.	4146 Nos.	Supply: - 1684 Nos. Installation: -1646 Nos. Testing: - 678 Nos. Commissioning: - 0.00 Nos.
	Population benefitted due to commissioned	18209 souls		
For Road Cutting & Restoration-				
	Item Description	Scope of Work	Progress made so far	Remark
	Road Cutting	a) CC: 21.483 Km b) BT: 10.955 Km	CC: - 28.40 Km BT: - 0.55 Km	

		c) Kuchha/WMM: Km	Kaccha: - 4.22 Km Interlock Tiles: - Km	
	Road Restoration	a) CC: Km b) BT: Km c) Kuchha: Km	a) CC: - 27.595 Km (up to PCC) 27.170 Km (up to CC) b) BT: - 0.550 Km c) Kaccha: - 4.220 Km d) Interlock Tiles: - Km	
	Balance Road Restoration	a) CC: - Km b) BT: - Km c) Kaccha: - Km d) Interlock Tiles: - Km	a) CC: - 1.230 Km b) BT: - 0.0 Km c) Kaccha: - 0.00 Km d) Interlock Tiles: - 0.00 Km	
Building and Miscellaneous work				
	Item Description	Scope of Work	SIP Scope	Progress made so far
	CRMC Building	1 no.	1 no.	Furniture, Accessories and Instrumentation work are incomplete.
	CCC Building	1 no.	1 no.	Furniture, Accessories and Instrumentation work are incomplete.
	MCC Building	1 no.	1 no.	Furniture, Accessories and Instrumentation work are incomplete.
	PLC SCADA	1 no.	1 no.	-
Trenchless Work				
	HDPE Pipes	0.333 Km	0.0 km	a) Supply: 0 km b) Laid: -0 km c) Testing: NIL d) Commissioning: NIL

Town: Mandawa

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no - RSTDIP/MDW/03 Works under package- Construction Works of Water Supply Production and Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply and Providing Sewer Network with House sewer connections along with construction of Sewage	Water Supply			
	Item	Scope of work	SIP scope	Progress
	Total distribution network	116.82 km	121.429 Km	a) Supply: - 121.429 Km b) Laid: - 121.175 Km c) Testing: - 74.558 km d) Commissioning: - 0 km
	HDPE Pipe (75 mm to 250 mm dia.)	108.40 km	112.589 Km	a) Supply: - 112.589 Km b) Laid: - 112.589 Km c) Testing: - 74.558 Km d) Commissioning: - 0 km
	DI Pipe K7 (100 mm to 350 mm)	6.62 Km	6.947 Km	a) Supply: - 6.947 km b) Laid: - 6.947 km c) Hydro Testing: - 0.00 km d) Commissioning: - 0.00 km

Treatment Plant and Sewerage Pumping Station: all allied Works and operation services of the entire system for 10 years at Mandawa. Name of Contractor- M/s. LNA-R & B (JV), Jaipur Contract type- Design, Build and Operate Date of Start- 22.03.2021 Cumulative Physical Progress- 76% Stipulated Date of completion – 20.03.2024 Likely date of completion - 30.06.2024	DI Pipe K9 (100 mm to 150 mm dia)	1.89 km	1.89 km	a) Supply: - 1.893 km b) Laid: - 1.786 km c) Hydro Testing: - 0.00 Km d) Commissioning: - 0.00 Km
	HDPE pipe (20,25,32 mm)	27.0 km	27.0 km	a) Supply: - 27.00 km b) Laid: - 17.839 km c) Hydro Testing: -6.150 Km d) Commissioning: - 0.00 Km
	House Service Connection	5400 Nos	6426 Nos.	a) Laying/installation: -5190 Nos b) Testing: - 2654 Nos. c) Commissioning: - 0.00 Nos.
	Domestic Water Meter	5400 Nos	6426 Nos.	a) Supply: -6426 nos. b) Installation: - 3501 Nos. c) Testing: - 0.00 Nos. d) Commissioning: - 0.00 Nos.
	Metering	EMFM-1 nos.	EMFM-1 nos.	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
		BFM – 18 nos.	BFM – 18 nos.	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
	Pressure Transmitters	24 Nos.	24 Nos.	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
	No. of DMAs	5 Nos.	5 Nos.	-
	Pump House	1 no.	1 no.	Structural drawing approved on 13.09.2022. Roof slab work & Plaster work completed. Pump foundation work completed.
	CWR (500 KI)	1 no.	1 no.	Drawing approved on 13.09.2022. Top dome casting completed.
	Rehab work (WTP, PH, CWR, OHSR etc.)	OHSR- 1 no. CWR – 0 nos. Pump House- 1 nos	OHSR- 1 no. CWR – 0 nos. Pump House- 1 nos	Jat Basti OHSR rehabilitation completed.
	Population benefitted due to commissioned	25610	25610 souls	
	Wastewater			
	STP (01 no.)	3.90 MLD	3.90 MLD	SBR: Civil work completed & Finishing work in progress. Decanter installation Completed. Admin Building: Civil work completed. MPS: Civil work completed & install Multi Rake Course Screen, Sluice gates & Pump installation in progress.

				TEER: Civil work completed Process Building: Outer plaster work completed. The air blower with pipe & screw press installed. Metering Room: Civil work completed. PTU: EMI installation work in progress.
	SPS (0.40 MLD)	1 No.	1 No.	Inlet Chamber & Pump House: Coarse screen, Sluice gates completed & Pump foundation under progress. Electro-mechanical equipment's installation completed. Metering Room & SCADA Room: Civil work, Plaster work of boundary wall completed. Paint on boundary wall completed. Balance procurement of EMI Equipment's completed.
	Lateral Sewer (upto dia 315)	47.4 Km	47.326 Km	a) Supply: - 47.330 km b) Laid: -47.330 km c) Testing: - 43.362 km d) Deflection test: - 0.00 Km e) Commissioning: -0.00 km
	Outfall (RCC NP-4, 400 mm dia)	1.0 Km	1.0 Km	0 Km
	PVC-U Pipe (110 & 160 mm dia)	43.50 Km	21.930 Km	a) Supply: - 21.930 km b) Laid: - 14.032 km c) Testing: - 0.00 Km d) Commissioning: - 0.00
	Manholes (All types)	3664 Nos.	3053 Nos.	a) Supply: - 3053 Nos. b) Installation: -2824 Nos. c) Testing: - 1045 Nos. d) Commissioning
	Inspection Chamber (All types)	4350 Nos.	5140 Nos	a) Supply: - 4154 Nos. b) Installation: - 3536 Nos. c) Testing: - 0.00 nos. d) Commissioning: - 0.00 nos.
	Population benefitted due to commissioned	25610 souls		
For Road Cutting & Restoration-				
	Item Description	Scope of Work	Progress made so far	Remarks
	Road Cutting	a) CC: Km b) BT: Km c) Kuchha/WMM: Km	CC: - 50.320 Km BT: - 0.960 Km Kaccha: - 76.550 Km Interlock Tiles: - 4.110 Km	
	Road Restoration	a) CC: Km b) BT: Km c) Kuchha: Km	CC: - 50.320 Km (up to CC) BT: - 0.0 Km	

			Kaccha: - 76.550 Km Interlock Tiles: - 4.110 Km	
Building and Miscellaneous work				
Item Description	Scope of Work	SIP Scope	Progress made so far	
CRMC Building	1 No.	1 No.	Door, Window & Painting work completed. The EMI items & furniture are procured as per contractor, but material not received at site.	
CCC Building	1 No.	1 No.		
MCC Building	1 No.	1 No.		
PLC SCADA	1 No.	1 No.	-	
Trenchless Work				
HDPE Pipes (PE-100 PN-6, 250 mm to 500 mm dia)	5.0 Km	5.587 km	a) Supply: -5.587 Km b) Laid: - 5.488 Km c) Testing: -0.600 Km d) Commissioning: - 0.00 km	
RCC Pipes	0.0 Km	0.00 km	a) Supply: 0 km b) Laid: -0 km c) Testing: 0 km d) Commissioning: Nil	

Note- Photographs of Proposed works and safeguard compliance is shown in **Appendix 1**.

Cumulative Progress of Works (FSTP – Sub Project Town) up to 31.03.2024

Town: Neem Ka Thana

Contract description	Cumulative Progress of works up to 31.03.2024

Package no – RSTDSP/NKT-SHR-BAN-JOB/01 Works under package- Design, Supply, Construction, Testing, Trial run and commissioning of FSTP with 5 years operation and maintenance at Neem Ka Thana, Shahpura (Jaipur), Bandikui, Jobner Rajasthan including supply, testing of vehicle mounted suction machine for fecal sludge desludging. Name of Contractor- M/s Genius LNA JV Contract type- Design, Build and Operate Cumulative Physical Progress- 71 % Stipulated Date of completion – 20.03.2024 Likely date of completion - 30.06.2024	Wastewater			
	Item Description	BOQ Scope	Scope of Work	Progress made so far
	Design Drawing and Documentation	5 %	5 %	Site handed over on 4.11.2022 vide NP letter no. 9688. Design & drawings: Approved except some QAP. Boundary wall completed except main gate & painting. Guard & Control Room: 95 % completed, putty work under progress. Stabilization & TESR: 95 % completed. Sludge Storage Yard: Completed except shed & painting. Screw press: Completed except painting. parking shed: Completed except shed. Foundation of DG set & transformer are completed. Road work under progress. EMI equipment's: Manufacturing under progress. Blowers, PTU, Screw press & Sludge dryer supplied. Desludging vehicle supplied without TPI.
	Civil Work	32 %	32 %	
	Mechanical Works	50 %	50 %	
	Electrical and Instrumentation Works	13 %	13 %	
	Financial Detail	D&B (3.17 Cr.)	D&B (3.17 Cr.)	RA 1=0.08 Cr., RA 2=0.11 Cr., RA 3=0.44 Cr., RA 4=0.17 Cr., RA 5=0.25 Cr., RA 6=0.40 Cr., RA 7= 0.66 Cr.(Under review)

Town: Bandi Kui

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no – RSTDSP/NKT-SHR-BAN-JOB/01 Works under package- Design, Supply, Construction, Testing, Trial run and commissioning of FSTP with 5 years operation and maintenance at Neem Ka Thana, Shahpura (Jaipur), Bandikui, Jobner Rajasthan including supply, testing of vehicle mounted suction machine for fecal sludge desludging.	Wastewater			
	Item Description	BOQ Scope	Scope of Work	Progress made so far
	Design Drawing and Documentation	5 %	5 %	Site handed over on 28.09.2022 vide NP letter no. 4252. Design & drawings: Approved except some QAP. Boundary wall completed except painting. 95 % of Guard & Control Room completed. 95 % of Stabilization tank & TESR is completed. Sludge Storage Yard, Screw press & parking shed: Completed except shed & painting. Road along with side drains completed. Foundation of DG set & transformer are completed.
	Civil Work	32 %	32 %	
	Mechanical Works	50 %	50 %	
	Electrical and Instrumentation Works	13 %	13 %	

Name of Contractor- M/s Genius LNA JV Contract type- Design, Build and Operate Cumulative Physical Progress- 76% Stipulated Date of completion – 20.03.2024 Likely date of completion - 30.06.2024				EMI equipment's: Manufacturing under progress. Blowers, PTU, Screw press & Sludge dryer supplied. Desludging vehicle supplied without TPI.
	Financial Detail	D&B (2.65 Cr.)	D&B (2.65 Cr.)	RA 1=0.07 Cr., RA 2=0.10 Cr., RA 3=0.50 Cr., RA 4=0.02 Cr., RA 5=0.26 Cr., RA 6=0.34 Cr. RA 7= 0.48 Cr.(Under review)

Town: Jobner

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no – RSTDSP/NKT-SHR-BAN-JOB/01 Works under package- Design, Supply, Construction, Testing, Trial run and commissioning of FSTP with 5 years operation and maintenance at Neem Ka Thana, Shahpura (Jaipur), Bandikui, Jobner Rajasthan including supply, testing of vehicle mounted suction machine for feecal sludge desludging. Name of Contractor- M/s Genius LNA JV Contract type- Design, Build and Operate Cumulative Physical Progress-64 % Stipulated Date of completion – 20.03.2024 Likely date of completion - 30.06.2024	Wastewater			
	Item Description	BOQ Scope	Scope of Work	Progress made so far
	Design Drawing and Documentation	5 %	5 %	Site handed over on 9.11.2022 vide NP letter no. 2000. Design & drawings: Approved except some QAP. Boundary wall completed except plastering, main gate & painting. Control & Guard Room: Slab casted, parapet under progress. Stabilization tank Final lift of wall is completed. Plaster and Plumbing work under progress. EMI equipment's: Manufacturing under progress. Blowers, PTU, Screw press & Sludge dryer supplied. Desludging vehicle supplied without TPI.
	Civil Work	32 %	32 %	
	Mechanical Works	50 %	50 %	
	Electrical and Instrumentation Works	13 %	13 %	
	Financial Detail	D&B (2.55 Cr.)	D&B (2.55 Cr.)	RA 1=0.07 Cr., RA 2=0.08 Cr., RA 3=0.05 Cr., RA 4=0.04 Cr., RA 5=0.34 Cr., RA 6=0.32 Cr. RA 7= 0.41 Cr.(Under review)

Town: Shahpura (Jaipur)

Contract description	Cumulative Progress of works up to 31.03.2024

Package no – RSTDSP/NKT-SHR-BAN-JOB/01 Works under package- Design, Supply, Construction, Testing, Trial run and commissioning of FSTP with 5 years operation and maintenance at Neem Ka Thana, Shahpura (Jaipur), Bandikui, Jobner Rajasthan including supply, testing of vehicle mounted suction machine for fecal sludge desludging. Name of Contractor- M/s Genius LNA JV Contract type- Design, Build and Operate Cumulative Physical Progress-29 % Stipulated Date of completion – 20.03.2024 Likely date of completion - 30.06.2024	Wastewater			
	Item Description	BOQ Scope	Scope of Work	Progress made so far
	Design Drawing and Documentation	5 %	5 %	Site handed over on 9.11.2022 vide NP letter no. 2000. Design & drawings: Approved except some QAP. Control & Guard Room: Slab casted, parapet under progress. Stabilization tank Final lift of wall is completed. Plaster and Plumbing work under progress. EMI equipment's: Manufacturing under progress. Blowers, PTU, Screw press & Sludge dryer supplied. Desludging vehicle supplied without TPI.
	Civil Work	32 %	32 %	
	Mechanical Works	50 %	50 %	
	Electrical and Instrumentation Works	13 %	13 %	RA 1=0.07 Cr., RA 2=0.08 Cr., RA 3=0.05 Cr., RA 4=0.04 Cr., RA 5=0.34 Cr., RA 6=0.32 Cr. RA 7= 0.41 Cr.(Under review)
	Financial Detail	D&B (3.35 Cr.)	D&B (2.55 Cr.)	

Town: Bari

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no – RSTDSP/FSTP – 9 Towns/03 Works under package- Design, Supply, Construction, Testing, Trial run and commissioning of FSTP with 5 years operation and maintenance at Bari, Tijara, Dausa, Deeg, Shahpura (Bhilwara), Bhinder-Kanode, Gangapur (Bhilwara), Bhawani Mandi, Pilibanga-Suratgarh	Wastewater			
	Item Description	BOQ Scope	Scope of Work	Progress made so far
	Design Drawing and Documentation	5 %	5 %	The identified land was changed and another land was allotted by the Nagar Palika vide letter no. 50 dated 01.05.2023. Design & drawing: Approved except QAP of solar system & Desludging vehicle. Boundary wall: Completed except main gate & painting. Office building: Completed up to lintel level, brick work in progress. Parking & ME shed: Footing casted, column under
	Civil Work	30 %	30 %	
	Mechanical Works	52 %	52 %	
	Electrical and Instrumentation Works	13 %	13 %	

Name of Contractor- M/s MTS-EIEPL JV Contract type- Design, Build and Operate Date of Start- 11.11.2022 Cumulative Physical Progress- 41 %				progress. PTU & Stabilization platform: under progress. EMI equipment's are under manufacturing.
	Financial Detail	D&B (3.80 Cr.)	D&B (3.80 Cr.)	RA 1=0.16 Cr., RA 2=0.01 Cr., RA 3=0.05 Cr., RA 4=0.05 Cr., RA 5=0.03 Cr., RA 6=0.13 Cr., RA 7=0.44 Cr.

Town: Deeg

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no – RSTDSP/FSTP – 9 Towns/03 Works under package- Design, Supply, Construction, Testing, Trial run and commissioning of FSTP with 5 years operation and maintenance at Bari, Tijara, Dausa, Deeg, Shahpura (Bhilwara), Bhinder-Kanode, Gangapur (Bhilwara), Bhawani Mandi, Pilibanga-Suratgarh Name of Contractor- M/s MTS-EIEPL JV Contract type- Design, Build and Operate Date of Start- 11.11.2022 Cumulative Physical Progress- 44% Stipulated Date of completion – 12.05.2024	Wastewater			
	Item Description	BOQ Scope	Scope of Work	Progress made so far
	Design Drawing and Documentation	5 %	5 %	The identified land was changed and another land was allotted by the Nagar Palika vide letter no. 50 dated 02.05.2023. Design & drawing: Approved except QAP of solar system & Desludging vehicle. Boundary wall Completed except main gate & painting. Office building: Brick work completed up to slab level. Parking & ME shed: Column up to FGL & excavation for toe wall completed. PTU & Stabilization platform: under progress. EMI equipment's are under manufacturing.
	Civil Work	30 %	30 %	
	Mechanical Works	52 %	52 %	
	Electrical and Instrumentation Works	13 %	13 %	
	Financial Detail	D&B (3.40 Cr.)	D&B (3.40 Cr.)	RA 1=0.14 Cr., RA 2=0.07 Cr., RA 3=0.03 Cr., RA 4=0.00 Cr., RA 5=0.19 Cr., RA 6=0.09 Cr., RA 7=0.25 Cr.

Town: Dausa

Contract description	Cumulative Progress of works up to 31.03.2024

Package no – RSTDSP/FSTP – 9 Towns/03 Works under package- Design, Supply, Construction, Testing, Trial run and commissioning of FSTP with 5 years operation and maintenance at Bari, Tijara, Dausa, Deeg, Shahpura (Bhilwara), Bhinder-Kanode, Gangapur (Bhilwara), Bhawani Mandi, Pilibanga-Suratgarh Name of Contractor- M/s MTS-EIEPL JV Contract type- Design, Build and Operate Date of Start- 11.11.2022 Cumulative Physical Progress- 56% Stipulated Date of completion – 12.05.2024	Wastewater			
	Item Description	BOQ Scope	Scope of Work	Progress made so far
	Design Drawing and Documentation	5 %	5 %	Site handed over to the contractor after issuing NTP. Design & drawing: Approved except QAP of solar system & Desludging vehicle. Boundary wall: Completed except main gate & painting. Office building: Finishing work under progress. TESR over building is completed. ME & Parking shed: Completed except shed. PTU, Stabilization tank: Platform completed. Road: completed. DG foundation completed. EMI equipment's are under manufacturing.
	Civil Work	30 %	30 %	
	Mechanical Works	52 %	52 %	
	Electrical and Instrumentation Works	13 %	13 %	RA 1=0.17 Cr., RA 2=0.20 Cr., RA 3=0.13 Cr., RA 4=0.20 Cr., RA 5=0.04 Cr., RA 6=0.08 Cr. RA 7=0.30 Cr.
	Financial Detail	D&B (4.05 Cr.)	D&B (4.05 Cr.)	

Town: Tijara

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no – RSTDSP/FSTP – 9 Towns/03 Works under package- Design, Supply, Construction, Testing, Trial run and commissioning of FSTP with 5 years operation and maintenance at Bari, Tijara, Dausa, Deeg, Shahpura (Bhilwara), Bhinder-Kanode, Gangapur (Bhilwara), Bhawani Mandi, Pilibanga-Suratgarh Name of Contractor- M/s MTS-EIEPL JV	Wastewater			
	Item Description	BOQ Scope	Scope of Work	Progress made so far
	Design Drawing and Documentation	5 %	5 %	Site handed over to the contractor after issuing NTP. Design & drawing: Approved except QAP of solar system & Desludging vehicle. Boundary wall: completed except main gate & painting. Office building: 91 % completed, TESR completed. Parking & ME shed: Completed except shed. Road: Completed. DG foundation: Completed. Foundation for Anaerobic tank & PTU: Completed. Water storage tank (UG): Completed. Finishing under progress.
	Civil Work	30 %	30 %	
	Mechanical Works	52 %	52 %	
	Electrical and Instrumentation Works	13 %	13 %	

Contract type- Design, Build and Operate Date of Start- 11.11.2022 Cumulative Physical Progress- 56% Stipulated Date of completion – 12.05.2024				EMI equipment's are under manufacturing.
	Financial Detail	D&B (3.30 Cr.)	D&B (3.30 Cr.)	RA 1=0.14 Cr., RA 2=0.01 Cr., RA 3=0.00 Cr., RA 4=0.31 Cr., RA 5=0.10 Cr., RA 6=0.33 Cr. RA 7=0.04 Cr.

Town: Bhawani Mandi

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no – 9 RSTDSP/FSTP – 9 Towns/03 Works under package- Design, Supply, Construction, Testing, Trial run and commissioning of FSTP with 5 years operation and maintenance at Bari, Tijara, Dausa, Deeg, Shahpura (Bhilwara), Bhinder-Kanode, Gangapur (Bhilwara), Bhawani Mandi, Pilibanga-Suratgarh Name of Contractor- M/s MTS-EIEPL JV Contract type- Design, Build and Operate Date of Start- 11.11.2022 Cumulative Physical Progress-51 % Stipulated Date of completion – 12.05.2024	Wastewater			
	Item Description	BOQ Scope	Scope of Work	Progress made so far
	Design Drawing and Documentation	5 %	5 %	Site handed over to the contractor after issuing NTP. Design & drawing: Approved except QAP of solar system & Desludging vehicle. Boundary wall: Completed except main gate & painting. Office building: Finishing work under progress. ME & parking shed completed up to FGL, toe wall also completed, PCC for floor is in progress. EMI equipment's are under manufacturing.
	Civil Work	30 %	30 %	
	Mechanical Works	52 %	52 %	
	Electrical and Instrumentation Works	13 %	13 %	
	Financial Detail	D&B (3.30 Cr.)	D&B (3.30 Cr.)	RA 1=0.14 Cr., RA 2=0.09 Cr., RA 3=0.17 Cr., RA 4=0.22 Cr., RA 5=0.02 Cr., RA 6=0.00 Cr. RA 7=0.22 Cr.

Town: Gangapur

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no – RSTDSP/FSTP – 9 Towns/03 Works under package- Design, Supply, Construction, Testing, Trial run and commissioning of FSTP with 5 years operation and maintenance at Bari, Tijara, Dausa, Deeg, Shahpura (Bhilwara), Bhinder-Kanode, Gangapur (Bhilwara), Bhawani Mandi, Pilibanga-Suratgarh Name of Contractor- M/s MTS-EIEPL JV Contract type- Design, Build and Operate Date of Start- 11.11.2022 Cumulative Physical Progress- 35 % Stipulated Date of completion – 12.05.2024	Wastewater			
	Item Description	BOQ Scope	Scope of Work	Progress made so far
	Design Drawing and Documentation	5 %	5 %	Site handed over to the contractor after issuing NTP. Design & drawing: Approved except QAP of solar system & Desludging vehicle. Boundary wall: Brick work in S/S under progress. Office building: Foundation work under progress. EMI equipment's are under manufacturing. RA 1=0.13 Cr., RA 2=0.00 Cr., RA 3=0.00 Cr., RA 4=0.00 Cr., RA 5=0.04 Cr., RA 6=0.02 Cr. RA 7=0.23 Cr.
	Civil Work	30 %	30 %	
	Mechanical Works	52 %	52 %	
	Electrical and Instrumentation Works	13 %	13 %	
	Financial Detail	D&B (3.10 Cr.)	D&B (3.10 Cr.)	

Town: Pilibanga Suratgarh

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no – RSTDSP/FSTP – 9 Towns/03 Works under package- Design, Supply, Construction, Testing, Trial run and commissioning of FSTP with 5 years operation and maintenance at Bari, Tijara, Dausa, Deeg, Shahpura (Bhilwara), Bhinder-Kanode, Gangapur (Bhilwara), Bhawani Mandi, Pilibanga-Suratgarh Name of Contractor-	Wastewater			
	Item Description	BOQ Scope	Scope of Work	Progress made so far
	Design Drawing and Documentation	5 %	5 %	The identified land was changed and another land was allotted by the Nagar Palika vide letter no. 5008 dated 19.01.2023. The excavation for foundation of boundary wall was started. But work stopped due to public agitation. A meeting was held with the SDM Pili banga & EO, Nagar Palika Pilibanga to resolve the issue. The Nagar Palika vide letter no. 5371 dated 14.12.2023 requested the SDM to depute a Magistrate along with police force to execute the work uninterruptedly.
	Civil Work	30 %	30 %	
	Mechanical Works	52 %	52 %	
	Electrical and Instrumentation Works	13 %	13 %	

M/s MTS-EIEPL JV Contract type- Design, Build and Operate Date of Start- 11.11.2022 Cumulative Physical Progress-50 % Stipulated Date of completion – 12.05.2024				After a long pursuance, another land for FSTP was handed over by the Nagar Palika, Pilbanga on dated 20.12.2023 vide letter no. 5434. Design & drawing: Approved except QAP of solar system & Desludging vehicle. Now, the work is in progress in full pace. Boundary wall: completed except main gate & painting. Office building: Brick work up to lintel under progress. ME & Parking shed: Completed up to FFL. Work in progress. PTU & Stabilization platform: under progress. EMI equipment's are under manufacturing.
	Financial Detail	D&B (3.80 Cr.)	D&B (3.80 Cr.)	RA 1=0.14 Cr., RA 2=0.00 Cr., RA 3=0.01 Cr., RA 4=0.00 Cr., RA 5=0.13 Cr., RA 6=0.20 Cr. RA 7=0.31 Cr.

Town: Bhinder Kanode

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no – RSTDSP/FSTP – 9 Towns/03 Works under package- Design, Supply, Construction, Testing, Trial run and commissioning of FSTP with 5 years operation and maintenance at Bari, Tijara, Dausa, Deeg, Shahpura (Bhilwara), Bhinder-Kanode, Gangapur (Bhilwara), Bhawani Mandi, Pilibanga-Suratgarh Name of Contractor- M/s MTS-EIEPL JV Contract type- Design, Build and Operate Date of Start- 11.11.2022	Wastewater			
	Item Description	BOQ Scope	Scope of Work	Progress made so far
	Design Drawing and Documentation	5 %	5 %	Site handed over to the contractor after issuing NTP. Design & drawing: Approved except QAP of solar system & Desludging vehicle. Boundary wall: completed except main gate & painting. Office building: Completed, Finishing work under progress. TESR above building is completed. ME & Parking shed completed up to FGL. Road: Completed. EMI equipment's are under manufacturing.
	Civil Work	30 %	30 %	
	Mechanical Works	52 %	52 %	
	Electrical and Instrumentation Works	13 %	13 %	
	Financial Detail	D&B (3.15 Cr.)	D&B (3.15 Cr.)	RA 1=0.13 Cr., RA 2=0.04 Cr., RA 3=0.22 Cr., RA 4=0.16 Cr., RA 5=0.18 Cr., RA 6= -0.03 Cr. RA 7=0.00 Cr.

Cumulative Progress- 50%				
Stipulated Date of completion – 12.05.2024				

Town: Shahpura (Bhilwara)

Contract description	Cumulative Progress of works up to 31.03.2024			
Package no – 9 RSTDSP/FSTP Towns/03 Works under package- Design, Supply, Construction, Testing, Trial run and commissioning of FSTP with 5 years operation and maintenance at Bari, Tijara, Dausa, Deeg, Shahpura (Bhilwara), Bhinder-Kanode, Gangapur (Bhilwara), Bhawani Mandi, Pilibanga-Suratgarh Name of Contractor- M/s MTS-EIEPL JV Contract type- Design, Build and Operate Date of Start- 11.11.2022 Cumulative Progress- 53% Stipulated Date of completion – 12.05.2024	Wastewater			
	Item Description	BOQ Scope	Scope of Work	Progress made so far
	Design Drawing and Documentation	5 %	5 %	Site handed over to the contractor after issuing NTP. Design & drawing: Approved except QAP of solar system & Desludging vehicle. Boundary wall completed except main gate & painting. Office building: Finishing work under progress, TESR completed. Parking & ME shed: Completed up to FGL, Toe wall also completed. Road: PCC completed, CC pending. EMI equipment's are under manufacturing.
	Civil Work	30 %	30 %	
	Mechanical Works	52 %	52 %	
	Electrical and Instrumentation Works	13 %	13 %	
	Financial Detail	D&B (3.30 Cr.)	D&B (3.30 Cr.)	RA 1=0.14 Cr., RA 2=0.03 Cr., RA 3=0.07 Cr., RA 4=0.24 Cr., RA 5=0.08 Cr., RA 6=0.10 Cr. RA 7=0.17 Cr.

Note- Photographs of Proposed works and safeguard compliance is shown in **Appendix 1**.

10. **Change in Scope of works and/or Location of Project Components.** During review of design there occurred some changes in scope of works and/or location of project components (FSTP towns). These changes are being reported through updated IEEs. Such changes up to reporting period are listed below-

Table -5: Change in Scope of works and/or Locations of Project Components

S. No.	Name of Town	Change in Scope		Change in Location	
		Original scope as per Updated IEE	Change in scope	Original location As per Draft IEE	Change in location
1.	Abu Road	CWPH – 6 nos	-	-	-
		Water Supply distribution Network-134 km	-	-	-
		Sewage network 100.90 km	-	-	-
2	Sirohi	Intake well, - 2nos (7.40 MLD water from Angore Dam 3.90 MLD from Kalkaji dam)	-	-	-
		Raw water main - 13.191 km	-	-	-
		2.49 km and 400mm (dia.) from Angore Dam to WTP	-	-	-
		10.70 km (L) and 300mm (Dia.) from Kalkaji Dam to WTP	-	-	-
		CWR and pump house in Kalkaji HW, Capacity-580 KL	-	-	-
		Clear water reservoirs (CWR) 4 nos new (750 KL, 470 KL, 580 KL and 270 KL)	-	-	-
		Transmission mains – 36.76km	-	-	-
		Water Supply distribution network-117.40 km	-	-	-
		Sewer collection network- 93.46 km	-	-	-
		Treated Effluent Elevated Reservoir (TEER) – 2 no.s (550 KL and 240 KL)	-	-	-
3	Laxmangarh	Water supply distribution networks (162.64Km) including House service connection of 9007	-	-	-
4	Ratangarh	Sewage collection network 144.33 km	-	-	-
5	Sardarshahar	Water supply distribution networks – 193 km	-	-	-
		Sewage Pumping Station (SPS) – 2 nos	-	-	-
		Manhole with pumping Stations (MWPS)-0	-	-	-
		Sewer Networks- 68 km	-	-	-
6	Fatehpur	Sewage Collection networks – 92.4 km with trenchless laying of sewer 15.12 km	-	-	-
		Rising Mains for Pumping the Sewage – 3200 m.	-	-	-
7	Pratapgarh	Sewage collection network -104.68 km	-	-	-
		Construction of one CRMC building	-	-	-
8	Banswara	Transmission system of 15.80 Kms of pipe dia from 100 mm to 500 mm of DI K-9 Pipes	-	-	-
		Distribution network of 286.70 Km	-	-	-
		sewage collection system- 89.0 Kms including 4,3 km trenchless	-	-	-
9	Didwana	Sewage collection network – 61.00 km	-	-	-
10	Khetri	Water Supply Distribution network-44 km	-	-	-
		Sewage collection network – 34.0 km	-	-	-
11	Kuchaman	Water supply distribution network 313.746 km	-	-	-
		Sewage collection network Length: 149.77 m including 8.2 km trenchless	-	-	-
12	Makrana	Sewage collection network 95.04 km including 11.61 kms Trenchless	-	-	-
13	Mandawa	Water Supply Distribution network-108.4km	-	-	-

		Clear Water Reservoir (CWR)- 1 Nos. of 1200 KL capacity	-	-	-
		Transmission mains from CWR to OHSR/ESR - Length- 0.98 kms	-	-	-
		Rising Main - Length -0.91 km	-	-	-
14	Ladnu	Sewerage network 127.100 km	-	-	-
FSTP Towns:					
1	Neem Ka Thana	• Construction of FSTP of 12 KLD Procurement of Desludging Vehicles	-	-	-
2	Bandi Kui	• Construction of FSTP of 16 KLD Procurement of Desludging Vehicles	-	-	-
3	Jobner	• Construction of FSTP of 4 KLD • Procurement of Desludging Vehicles	-	-	-
	Shahpura (Jaipur)	• Construction of FSTP of 12 KLD • Procurement of Desludging Vehicles	-	-	-
4	Bari	• Construction of FSTP of 21 KLD • Procurement of Desludging Vehicles	-	Circle-2, Bari	pump, Kanchanpur
5	Deeg	• Construction of FSTP of 13 KLD • Procurement of Desludging Vehicles	-	near Malipura Road	Mokshdham, Goverdhan Road, Malipura
6	Dausa	• Construction of FSTP of 31 KLD • Procurement of Desludging Vehicles	-	-	-
7	Tijara	• Construction of FSTP of 12 KLD Procurement of Desludging Vehicles	-	-	-
8	Bhawani Mandi	• Construction of FSTP of 12 KLD • Procurement of Desludging Vehicles	-	-	-
9	Gangapur	• Construction of FSTP of 5 KLD • Procurement of Desludging Vehicles	-	-	-
10	Pilibanga Suratgarh	• Construction of FSTP of 14 KLD in Pilibanga Procurement of Desludging Vehicles	-	Lakhuwali, Pilibanga.	Rawatsar road
11	Bhinder Kanode	• Construction of FSTP of 8 KLD Procurement of Desludging Vehicles	-	-	-
12	Shahpura (Bhilwara)	• Construction of FSTP of 9 KLD • Procurement of Desludging Vehicles	-	-	-

2. COMPLIANCE STATUS WITH NATIONAL/ STA13TE/ LOCAL STATUTORY ENVIRONMENTAL REQUIREMENTS 14

Under RSTDSP all the statutory compliances are being fulfilled. Environmental regulatory compliances including consents for STP/WTP/Batching plant/ crushers/hot mix plants etc. from

Rajasthan State Pollution Control Board (RSPCB) and clearances from other statutory authorities are being obtained before start of construction work. None of the project or its component fall within criteria set under EIA Notification 2006 therefore EIA clearance is not required in any project. Wild Life Act is also not applicable in any subproject in all the 14 project towns. Other statutory requirements include forest clearance, tree cutting permissions, Permission for road crossing from State and national Highway Authorities, Permission for railway crossings from Indian Railways Department, permission from Central/State Archaeological Department etc. Status of environmental statutory requirements and their compliances are given in **Table 6** below-

Table-6: Compliance of Sub-Projects with Statutory Requirements Applicable

S.N.	Package number	Name of Town and type of projects	Forest Clearance	Tree Cutting Permission	Permission from State/ National Archaeological dept.	Permission for NH/Highways/ Railways for crossing	Labor License of contractor And Workmen Compensation (WC) Policy	Permissions for Road Cutting
	1	2	3	4	5	6	7	8
1	RSTDIP/RTG-FTP-LXG/01	Ratangarh Sewerage	Not required	Tree Cutting permission obtained for 2 STPs and CRMC sites	Not required	• National Highway Crossing: NIL • Railway Crossing: Permission obtained for Railway crossing from Railway department vide letter no. 639/Pipe Xing/Km.323/8-9/RTGH/2021/12 dated 27.12.2021.	• Labour License Valid up to 31/12/2024 • Employee's Compensation Policy valid up to 30.03.2025)	• Not required
2		Fatehpur Sewerage	Not required	No tree cutting is required	Not required	• National Highway Crossing: Permission obtained vide letter no. NHA/PIU/Sikar/RBFS/2022-23/508 on dated 21.09.2022. • Railway	• Labour License Valid up to 31/12/2024 • Employee's Compensation Policy valid up to 30.03.2025)	• PWD Road cutting near churu bus stand is required • PIU intimated that the work at that location executed as per the advice of the Public Works

S.N.	Package number	Name of Town and type of projects	Forest Clearance	Tree Cutting Permission	Permission from State/ National Archaeological dept.	Permission for NH/Highways/ Railways for crossing	Labor License of contractor And Workmen Compensation (WC) Policy	Permissions for Road Cutting
						Crossing: Permission obtained vide letter no. NWR-JP-2022-WL-18 & 19 on dated 19.12.2022.		Department(PWD). Now no Separate Road Cutting Permission Near Churu Bus Stand is required.
3		Laxmangarh Water Supply	Not required	Tree Cutting permission obtained for 4 trees at CWR site at Bad Ke Balaji, PHED campus	Not required	• National Highway Crossing: NIL • Railway Crossing: NIL	• Labour License Valid up to 31/12/2023 (Civil work completed) • Employee's Compensation Policy valid up to 30.03.2025)	• Not required
4	RSTDIP/SRD/01	Sardarshahar Water Supply and Sewerage	Not required	Tree Cutting permission obtained for 5 Trees at CWR and CRMC site at PHED campus.	Not required	• National Highway Crossing: NIL • Railway Crossing: permission obtained for Railway Crossing Vide letter no. 639W/PipeXing/ Km46/4/SRDR /2021/03 dated	• Labour License Valid up to 31/12/2024 • Employee's Compensation Policy valid up to 30.03.2025)	• Not required

S.N.	Package number	Name of Town and type of projects	Forest Clearance	Tree Cutting Permission	Permission from State/ National Archaeological dept.	Permission for NH/Highways/ Railways for crossing	Labor License of contractor And Workmen Compensation (WC) Policy	Permissions for Road Cutting
						12.08.2021 for WW pipe line and vide letter no. 639W/ PipeXing/Km46/ 4/ SRDR/ 2021/ 02 dated 12.08.2021 for Water supply Pipe line.		
5	RSTDIP/SHR-ABR/01	Abu Road Water Supply and Sewerage	- PIU has submitted application for forest clearance. - Stage one permission is granted. - Required Fee deposited with forest department. - Observations made by forest department are complied and DCF, Sirohi vide his letter no.	Presently not required for any site except for pipe laying and intake at Bhainsa Singh Dam, which is covered under forest clearance	Not required	National Highway Crossing: Applied to obtain the permission from NHAI for National Highway (NH-27) crossing- Permission Obtained Railway Crossing Permission obtained for Railway crossing vide letter no. W/220/1 dated 18.02.2022	- Labour License Valid up to 31/12/2024 - Employee's Compensation Policy valid up to 30.03.2025)	• Not required

S.N.	Package number	Name of Town and type of projects	Forest Clearance	Tree Cutting Permission	Permission from State/ National Archaeological dept.	Permission for NH/Highways/ Railways for crossing	Labor License of contractor And Workmen Compensation (WC) Policy	Permissions for Road Cutting
			1207 dated 12.04.2024 requested DCCF, Jodhpur to grant Working Permission. • Working permission is awaited.					
6		Sirohi Water Supply and Sewerage	Not required	09 trees at Angore Pump house WTP (9.0 MLD) at PHED campus and 09 trees at CWR site at Teen Batti Pump House permission obtained from the Thasildar office Sirohi Tree Cutting permission obtained for	Not required	• National Highway Crossing: NIL • Railway Crossing: NIL	• Labour License Valid up to 31/12/2024 • Employee's Compensation Policy valid up to 30.03.2025)	• Permission Obtained

S.N.	Package number	Name of Town and type of projects	Forest Clearance	Tree Cutting Permission	Permission from State/ National Archaeological dept.	Permission for NH/Highways/ Railways for crossing	Labor License of contractor And Workmen Compensation (WC) Policy	Permissions for Road Cutting
				1 tree at STP (1.7 MLD) at Revdar Road				
7	RSTDIP/PRT/01	Pratapgarh Sewerage	Not required	Tree Cutting permission obtained for 1 tree at STP site and 3 trees at CRMC sites	Not required	• National Highway Crossing: Permission obtained for National Highway 113 crossing vide Letter No. no.RW/JA/RJ/PS/utility//2021/464/302-305 dated 29.04.2022 from Ministry of Road Transport & Highways • Railway Crossing: NIL	• Labour License Valid up to 31/12/2024 • Employee's Compensation Policy valid up to 24.11.2024)	• Permission obtained for road cutting from PWD.for 3 roads.
8	RSTDIP/BNS/04	Banswara Water Supply and Sewerage	Not required	Tree Cutting permission obtained for 10 nos. of trees at WTP site at PHED campus.	Not required	• National Highway Crossing: NHAI, Banswara directed to Deposit the License Fees & BG via their Letter No. 690 dated 26-10-	• Labour License Valid up to 31/12/2024 • Employee's Compensation Policy valid up to 03.03.2025)	• Permission Obtained from PWD, RSRDC and RVUNL for Road cutting

S.N.	Package number	Name of Town and type of projects	Forest Clearance	Tree Cutting Permission	Permission from State/ National Archaeological dept.	Permission for NH/Highways/ Railways for crossing	Labor License of contractor And Workmen Compensation (WC) Policy	Permissions for Road Cutting
						2023. Same is being complied to get the permission. • Railway Crossing: NIL		
9	RSTDIP/KTR/03	Khetri Water Supply and Sewerage	Not required	Presently no tree cutting required	Not required	• State Highway Crossing permission obtained	• Labour License Valid up to 31/12/2024 • Employee's Compensation Policy valid up to 31.10.2024	• Not required (All roads are Municipal Roads)
10	RSTDIP/LDN-DID-MKN/01	Ladnu Sewerage	Not required	Presently no tree cutting required	Not required	• National Highway: NIL • Railway Crossing: NIL	• Labour License Valid up to 31/12/2024 • Employee's Compensation Policy valid up to 30.03.2025)	• Not required
11		Didwana Sewerage	Not required	Tree cutting permission obtained under letter no. 3049-3051 on dated 07.12.2021	Not required	• National Highway: NIL • Railway Crossing: NIL	• Labour License Valid up to 31/12/2023 • Employee's Compensation Policy valid up to 30.03.2025	• Not required

S.N.	Package number	Name of Town and type of projects	Forest Clearance	Tree Cutting Permission	Permission from State/ National Archaeological dept.	Permission for NH/Highways/ Railways for crossing	Labor License of contractor And Workmen Compensation (WC) Policy	Permissions for Road Cutting
12		Makrana Sewerage	Not required	The Permission of around 130 Neem trees at STP site (7.7 MLD) obtained from Municipal council, Makrana vide letter no. L/2021-22/3440 dated 16.12.21 with plantation of trees with its thrice capacity	Not required	• State Highway Crossing: Permission obtained for SH crossing from PWD vide letter no. PIU/ PPP /Laxmangarh/MB/Utility/21-22/D-601 dated 11.01.2022 • Railway Crossing: Permission for Railway crossing obtained vide letter no. Letter No: - Application ID: NWR-JU-2022-WL-263 dated 24-09-2022	• Labour License Valid up to 31/12/2024 • Employee's Compensation Policy valid up to 30.03.2025	• Permission Obtained for Road cutting.
13	RSTDIP/KMN/1002	Kuchaman Water Supply and Sewerage	Not required	Presently no tree cutting required	Not required	• National Highway: NIL • Railway Crossing: NIL	• Labour License Valid up to 31/12/2023 • Employee's Compensation Policy valid up to 30.03.2025	• Permission obtained for Dismantling of carriage of RSRDC road vide letter no.PD/NGR/2023-24/136 on

S.N.	Package number	Name of Town and type of projects	Forest Clearance	Tree Cutting Permission	Permission from State/ National Archaeological dept.	Permission for NH/Highways/ Railways for crossing	Labor License of contractor And Workmen Compensation (WC) Policy	Permissions for Road Cutting
								dated 18.12.2023
14	RSTDIP/MDW /03	Mandawa Water Supply and Sewerage	Not required	Permission for 13 tree cutting at 3.90 MLD STP site, obtained	Not required	• Presently Not required	• Labour License Valid up to 31/12/2023 (Applied for Renewal) • Employee's Compensation Policy valid up to 22.09.2024	• Not required
15	(FSTP 4 Town Cluster 01)	Not required	Not required	Not required	Not required	Not required	• Labour License Valid up to 31/12/2024 • Employee's Compensation Policy valid up to 22.09.2024	Not required
16	(FSTP 9 Town Cluster 02)	Not required	Not required	Not required	Not required	Not required	• Labour License Valid up to 31/12/2024. • Employee's Compensation Policy valid up to 12.06.2024	Not required

Note: As ULB is part of the project and asset owner of all municipal roads and all the DPRs are also approved by ULB, there is general acceptance of road cutting for RSTDSP project works in all towns. For any specific requirement, approval from ULB shall be taken and reported in SEMR.

Table 6A: Status of Consents from State Pollution Control Board for STPs/WTPs

S.No.	Town	Capacity of STP	Capacity of WTP	Location	Status of CTE	Status of CTO
New Construction						
1	Ratangarh	3.8 MLD		Johad	CTE issued, Valid from 03.12.2020 to 30.11.2025 under Air Act Valid from 12.02.2021 to 30.01.2026 under Water Act	CTO issued and valid from 20/04/2023 to 31/03/2028.
2	Ratangarh	6.10 MLD		Near Gaushala	CTE issued, Valid from 03.12.2020 to 30.11.2025 under Air Act Valid from 12.02.2021 to 30.01.2026 under Water Act	
3	Fatehpur	4.3 MLD		Naribari village road	CTE issued, Valid from 07.9.2020 to 31.08.2025 under Air Act Valid from 16.02.2021 to 31.01.2026 under Water Act.	CTO issued and valid from 27/04/2023 to 31/03/2028.
4	Sardarshahar	2.30 MLD		STP South Campus	CTE issued, Valid from 15.10.2020 to 30.09.2025 under Air Act Valid from 13.02.2021 to 31.01.2026 under Water Act	
5	Sardarshahar	3.40 MLD		STP North Campus	CTE issued, Valid from 15.10.2020 to 30.09.2025 under Air Act Valid from 13.02.2021 to 31.01.2026 under Water Act	
6	Sardarshahar	1.60 MLD		Near Ashok Circle in land of GVM	CTE issued valid from 10.02.2023 to 31.01.2028	
7	Abu Road	6.9 MLD		Santpur	CTE Issued, Valid from 15.02.2021 to 31.01.2026	
8	Abu Road	2.3 MLD		Manpur	CTE Issued, Valid from 15.02.2021 to 31.01.2026	
9	Abu Road		10 MLD	Santpur PHED campus	CTE Issued, Valid from 15.02.2021 to 31.01.2026	
10	Sirohi	5 MLD		Near Nehru Nagar	CTE Issued, Valid from 11.02.2021 to 31.01.2026	CTO obtained and valid from 28.06.2023 to 31.05.2028
11	Sirohi	1.7 MLD		Near Revdar Road	CTE Issued, Valid from 11.02.2021 to 31.01.2026	CTO applied and status pending at RSPCB.

S.No.	Town	Capacity of STP	Capacity of WTP	Location	Status of CTE	Status of CTO
12	Sirohi		9 MLD	Angore PHED campus	CTE Issued, Valid from 31.03.2021 to 28.02.2026	
13	Banswara	9.6 MLD		At Udaipur Road	CTE Issued, Valid from 08.07.2021 to 30.06.2026	
14	Banswara		9.25 MLD	PHED AEN Campus	CTE Issued, Valid from 17.11.2021 to 31.10.2026	
15	Pratapgarh	7 MLD		Kila Road Pratapgarh	CTE issued, Valid from 30.11.2021 to 31.10.2026	CTO obtained and valid up to 31.08.2028
16	Didwana	3MLD		Near Mela Maidan	CTE Issued, Valid from 11.02.2021 to 31.03.2026	
17	Kuchaman	7.6 MLD		Near Dashahara Ground	CTE Issued, Valid from 29.01.2021 to 31.12.2025	
18	Ladnu	5.50 MLD		Asota Village	CTE Issued, Valid from 27.01.2021 to 31.12.2025	
19	Ladnu	2.4 MLD		Sujangarh Road	CTE issued, Valid from 04.11.2022 to 31.10.2027	
20	Makrana	7.70 MLD		Existing campus of STP	CTE Issued, Valid from 08.02.2021 to 31.01.2026	
21	Khetri	3.15 MLD		Location Changed from Near Kharia kua to Village Nanu wali Bawdi Khasra No 984-988, Khetri	CTE Issued, Valid from 17.11.2022 to 31.10.2027	
22	Mandawa	3.9 MLD		Bissau Road	CTE Issued, Valid from 16.02.2021 to 31.01.2026	
Upgradation/Rehabilitation works						
23	Sardarshahar	5 MLD WSP		South campus	CTE issued and Valid from 16.09.2022 to 31.08.2027	
24	Sardarshahar	2 MLD WSP		North Campus	CTE issued and Valid from 16.09.2022 to 31.08.2027	
25	Banswara		4.5 MLD	WTP at Kagdi Pickup weir	CTE issued and Valid from 09.12.2022 to 30.11.2027	
26	Banswara		10.40 MLD	AEN Campus	CTE issued and Valid from 17.11.2022 to 31.10.2027	
27	Banswara	6.34 MLD WSP		Udaipur Road	CTE Issued, Valid from 19.10.2022 to 30.09.2027	

Table 6B: Status of Consents from State Pollution Control Board for FSTPs

S.No.	FSTP Town	Capacity of FSTP	Location	Status of CTE
1	Neem Ka Thana	12 KLD	Ranasar Road.	CTE obtained and valid from 02.11.2023 to 31.10.2028
2	Shahpura (Jaipur)	12 KLD	Khasra no. 3703, Pratappura near Ramnivas Bagh	CTE will be applied after Land allotment is done
3	Bandi Kui	16 KLD	Khasra no. 1378/899, near Rajesh Pilot Hostel on Abhaneri Road	CTE obtained and valid from 07.12.2023 to 30.11.2028
4	Jobner	4 KLD	Khasra no. 137 in Pratappura village	CTE obtained and valid from 07.12.2023 to 30.11.2028
5	Bari	23 KLD	Khasra no. 6073, Bari	CTE obtained and valid from 23.11.2023 to 31.10.2028
6	Deeg	15 KLD	Near old Chungi, Naka/Malipura Road at Khasra no. 1041, Deeg	CTE obtained and valid from 02.01.2024 to 31.12.2028
7	Dausa	31 KLD	Rohda village, Dausa, Khasra no. 584/909	CTE issued and valid from 27.09.2023 to 31.08.2028
8	Tijara	12 KLD	Khasra no 147-148, village Elaka, Tijara	CTE obtained and valid from 09.01.2024 to 31.12.2028
9	Bhawani Mandi	12 KLD	village Pachpahaad, Jhalawar, Khasra no. 80, Bhawani Mandi	CTE obtained and valid from 23.11.2023 to 31.10.2028
10	Shahpura (Bhilwara)	12 KLD	Shahpura village at Khasra no. 3940, Shahpura (Bhilwara)	CTE applied on dated 12.12.2023
11	Gangapur (Bhilwara)	5 KLD	Khasra no. 3703 in Meluni Khera village, Shada tehsil, Gangapur	CTE applied on dated 16.12.2023
12	Bhinder Kanor	8 KLD	Gopalpura Village at Khasra no. 211/2, Kanor	CTE obtained and valid from 19.01.2024 to 31.12.2028
13	Pilibanga (Hanumangarh)- Suratgarh (SriGanganagar)	14 KLD	Lakhuwali Road at Kila number 16-20, Murabba number 21, Patthar number 26/313, PBN Chak, Pilibanga	CTE applied status pending at RSPCB

Table 7: Compliance of Clearance Conditions

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
A. RSPCB consents		
General conditions included in Consent to Establish of STPs		
All STPs	In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.	Complied in design- Total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.
	That no treated/untreated waste water shall be discharged into any river or water body and entire treated sewage shall be utilized in plantation/horticulture and other gainful purposes.	To be complied during operation- No treated/untreated waste water shall be discharged into any river or water body and entire treated sewage shall be utilized in plantation/horticulture and other gainful purposes, plan will be prepared by contractor for reuse of treated effluent in beneficial uses.
	That the Sludge will be properly digested de-watered & the treated sludge will be used as manure or will be disposed in a scientific manner.	Complied in design- sludge drying units have been proposed in STPs. Sludge will be properly digested de-watered & the treated sludge will be used as manure or will be disposed in a scientific manner.
	That the unit shall undertake spray of insecticides time to time to control fly/mosquito growth in the area	To be complied during operation- Regular spray of insecticides shall be done during operation in premises of STP to control fly/mosquito growth in the area
	That the unit shall undertake plantation in two rows of suitable species all along the periphery of the site of the STP to control foul smell.	To be complied before operation- Plantations are proposed in two rows all along the periphery of the site of the STP to control foul smell
	That above stated effluent standards is subject to the Hon'ble NGT order dated 30/4/2019 in matter of O.A. no 1069/2018 Nitin Shankar Deshpande Vs Union of India and Ors.	Complied- treated effluent parameters meets the standards as per given NGT orders in all STP designs
	That efforts should be made to reuse the treated sewage to the maximum possible extent and minimize its discharge. A network of pipelines should be laid from the treated sewage collection tank to fields for utilization.	To be complied- Treated sewage shall be reused in beneficial purposes to the maximum possible extent, reuse plan for treated effluent and sludge shall be prepared by DBO contractor in consultation with local body.
	That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.	Being complied; Adequate measures such as dense plantations around STPs are being planted to avoid foul odour during treatment and disposal of sewage and sludge before start of operation of STPs

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
TOWN WISE SPECIFIC CONDITIONS FOR BELOW MENTIONED CONSENTS OF STP'S		
2.3 MLD STP, Sardarshahar	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs.1341 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
3.4 MLD STP, Sardarshahar	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs.1564 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
1.7 MLD STP, Sirohi	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs.1180.4 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
	That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 160 KVA	Application for DG set under Air Act shall be done before installation of DG set- presently DG set is not being installed
5 MLD STP, Sirohi	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs.2290 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
	That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 300 KVA	Application for DG set under Air Act shall be done before installation of DG set- presently DG set is not being installed
2.3 MLD STP, Abu Road	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs.1852 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
	That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 225 KVA	Application for DG set under Air Act shall be done before installation of DG set- presently DG set is not being installed
6.9 MLD STP, Abu Road	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs.2536 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
	That Project Proponent shall apply for Consent to Establish under Air(Prevention	Application for DG set under Air Act shall be done before installation of DG set- presently DG set is not being installed

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
	& Control of Pollution), Act, 1981 for D.G. Set of 585 KVA	
4.3 MLD, Fatehpur	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 2064 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
3.8 MLD, Ratangarh Town	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 1663 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
6.10 MLD, Ratangarh Town	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 2177.7 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
7 MLD STP, Pratapgarh	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 1440 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
	That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 125 KVA	Application for DG set under Air Act shall be done before installation of DG set- presently DG set is not being installed
3.15 MLD STP, Khetri	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 865 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
	That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 180 KVA	Application for DG set under Air Act shall be done before installation of DG set- presently DG set is not being installed
3.9 MLD STP, Mandawa	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 1625 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
	That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 180 KVA	Application for DG set under Air Act shall be done before installation of DG set- presently DG set is not being installed
7.6 MLD STP, Kuchaman	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 2697 lacs and in case	Noted and shall be complied if there is any change in project cost- presently not applicable

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
	of any increase in the project cost, the project proponent shall be liable to deposit balance amount	
	That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 365 KVA	Application for DG set under Air Act shall be done before installation of DG set- presently DG set is not being installed
5.5 MLD STP, Ladnu	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 2475 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
	That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 300 KVA	Application for DG set under Air Act shall be done before installation of DG set- presently DG set is not being installed
7.7 MLD STP, Makrana	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 2726 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
	That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 365 KVA	Application for DG set under Air Act shall be done before installation of DG set- presently DG set is not being installed
3 MLD STP, Didwana	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 2230 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
	That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. set of 180 KVA	Application for DG set under Air Act shall be done before installation of DG set- presently DG set is not being installed
9.6 MLD STP, Banswara	That fee for this consent to establish has been deposited on the basis of estimated project cost and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
1.6 MLD STP, Sardarshahar	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 1024 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
2.4 MLD STP Ladnu	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 1780 lacs and in case of any increase in the project cost, the	Noted and shall be complied if there is any change in project cost- presently not applicable

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
	project proponent shall be liable to deposit balance amount	
5 MLD WSP Sardarshahar	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 442 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
2 MLD WSP Sardarshahar	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 233.22 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
6.34 MLD WSP Banswara	That fee for this consent to establish has been deposited on the basis of estimated project cost and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
General conditions included in Consent to Establish of WTPs		
All WTPs	That the provisions of EIA notification 14/09/2006 by MoEF shall be strictly followed and the unit shall obtain Environmental Clearance under 8(a) of the aforesaid notification if required and the sole responsibility of the same shall lie on the project proponent.	Not applicable
	That this consent to establish is issued to the unit on the basis of documents submitted by the applicant, if any discrepancy is found in the document/facts submitted by the unit then the applicant shall be liable for legal action in accordance with provisions of law.	Noted
	That no industrial trade effluent i.e. wastewater from water re-circulation system, shall be discharged inside/outside the premises. The entire process water shall be re-circulated with the processes through proposed settling tanks	Complied- The entire process water shall be re-circulated with the processes through proposed settling tanks, no any discharge from WTP shall be done
	That the back-wash water shall be treated through adequately design treatment system and should be completely recycled into the process thus maintaining zero discharge inside and outside the premises	Complied- The entire process water shall be re-circulated with the processes through proposed settling tanks, no any discharge from WTP shall be done
	That the domestic effluent shall be disposed off in soak pits through properly designed septic tanks	Noted and shall be complied with during detail design
	That no source of air emission shall be permitted under this consent, unit shall	DG set may be only source of air pollution in WTP. Application for DG set under Air Act

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
	apply for separate consent to establish under the provisions of Air Act-1981 if there is proposal for any source of air emission	shall be done before installation of DG set- presently DG set is not being installed
	All the conditions and instructions as provided in the General conditions for Consent to establish/consent to operate under Water (Prevention & Control of Pollution) Act -1974 shall be complied with strictly	Noted and shall be complied with
	That rain water harvesting system shall be provided to harness rain water for domestic purposes & that the industry shall not dig new well / tube well without prior permission from the competent authority	Provision for rain water harvesting system is taken in project cost- shall be complied during detail design
	That the industry shall ensure that noise from the unit does not exceed the prescribed noise standards for industrial area i.e. 75 dB(A) Leq during day time and 70 dB(A) Leq during night time to meet the prescribed ambient noise standards. Day time is reckoned in between 6 A.M. and 9 P.M. and night time is reckoned between 9 P.M. to 6 A.M.	Being Complied- Quarterly environmental monitoring was done at WTP premises. Recent noise quality measurements shows that noise level is within prescribed limits
	That the unit shall maintain plantation at least in the 33% of total area within the unit premises	Noted and shall be complied during detail design
	That the consent is valid subject to fulfillment of all the other statutory requirements in other Laws/Acts/Rules as applicable.	Noted
	That this consent is not an evidence for ascertaining the title of land	Noted
	That this consent is only for environment purpose not be liable for any other purpose.	Noted
	That unit shall comply with standards, with respect to drinking water, as prescribed by the Bureau of Indian Standards in IS 10500-2012 as amended till date.	Design standards of WTP are as per applicable norms of CPHEEO
	That the unit shall apply for renewal of consent at least 120 days in advance prior to expiry date of this consent letter else additional fee shall have to be deposited in accordance with the Rajasthan Water & Air (Prevention & Control of Pollution) (Amendment) Rules 2016	Noted and shall be complied with

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
TOWN WISE SPECIFIC CONDITIONS FOR BELOW MENTIONED CONSENTS OF WTP		
10 MLD WTP, Abu Road	That this consent is being issued to EE, PHED for Operating of Water Treatment Plant of capacity 10.0 MLD at Near Moksh Dham, Santpur, Abu Road, Sirohi. In case of any increase in capacity or addition/ modification/ alteration/ or change in product mix or process or raw material or fuel, the project proponent is required to obtain fresh consent to establish from the Board.	Noted and shall be complied if there is any change in capacity or addition/ modification/ alteration/ or change in product mix or process or raw material or fuel- not applicable at present
	That this Consent to Establish is valid for Water Treatment Plant (with recycling system) for a investment of 1247 lakh under 'Orange' category. any change in production & its capacity unit has to seek prior consent to establish/operate from the State Board	Noted and shall be complied if there is any such change- not applicable at present
	That this consent is subject to any order or direction from any Court of the competent jurisdiction	Noted
9 MLD WTP, Sirohi	That this consent is being issued to EE, PHED for Operating of Water Treatment Plant of capacity 9.0 MLD at near Angore Sirohi. In case of any increase in capacity or addition/ modification/ alteration/ or change in product mix or process or raw material or fuel, the project proponent is required to obtain fresh consent to establish from the Board.	Noted and shall be complied if there is any change in capacity or addition/ modification/ alteration/ or change in product mix or process or raw material or fuel- not applicable at present
	That this Consent to Establish is valid for Water Treatment Plant (with recycling system) for a investment of Rs. 336.3 lakh under 'Orange' category. any change in production & its capacity unit has to seek prior consent to establish/operate from the State Board	Noted and shall be complied if there is any such change- not applicable at present
9.25 MLD WTP, Banswara	That this consent is being issued to EE, PHED for Operating of Water Treatment Plant of capacity 9.25 MLD at Office of Executive Engineer, Thikriya Dahod Road, Banswara. In case of any increase in capacity or addition/ modification/ alteration/ or change in product mix or process or raw material or fuel, the project proponent is required to obtain fresh consent to establish from the Board.	Noted and shall be complied if there is any change in capacity or addition/ modification/ alteration/ or change in product mix or process or raw material or fuel- not applicable at present
	That this Consent to Establish is valid for Water Treatment Plant (with recycling system) for a investment of Rs. 1100.00 lakh under 'Orange' category. any change in production & its capacity unit has to	Noted and shall be complied if there is any such change- not applicable at present

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
	seek prior consent to establish/operate from the State Board	
4.5 MLD WTP, Banswara	That this consent is being issued to EE, PHED for Operating of Water Treatment Plant of capacity 4.5 MLD at Existing WTP at Kagdi Pick up weir Dam Banswara. In case of any increase in capacity or addition/ modification/ alteration/ or change in product mix or process or raw material or fuel, the project proponent is required to obtain fresh consent to establish from the Board.	Noted and shall be complied if there is any change in capacity or addition/ modification/ alteration/ or change in product mix or process or raw material or fuel- not applicable at present
	That this Consent to Establish is valid for Water Treatment Plant (with recycling system) for a investment of 511.0 lakh under 'Orange' category. any change in production & its capacity unit has to seek prior consent to establish/operate from the State Board	Noted and shall be complied if there is any such change- not applicable at present
10.4 MLD WTP, Banswara	That this consent is being issued to EE, PHED for Operating of Water Treatment Plant of capacity 10.4 MLD at PHED AEN Campus, Near Old Bus Stand Banswara. In case of any increase in capacity or addition/ modification/ alteration/ or change in product mix or process or raw material or fuel, the project proponent is required to obtain fresh consent to establish from the Board.	Noted and shall be complied if there is any change in capacity or addition/ modification/ alteration/ or change in product mix or process or raw material or fuel- not applicable at present
	That this Consent to Establish is valid for Water Treatment Plant (with recycling system) for a investment of 1181.0 lakh under 'Orange' category. any change in production & its capacity unit has to seek prior consent to establish/operate from the State Board	Noted and shall be complied if there is any such change- not applicable at present
B. Tree cutting permission		
Office Premises and Bad ke Balaji Campus, Laxmangarh	Tree Cutting permission given without any terms & condition.	Kindly refer Appendix 3 for copy of the same
PHED Campus, Sardarshahar	Number of new trees to be grown under Rule 24 J (2)- total 25 trees	Complied- contractor has planted 50 trees in STP campus of Sardarshahar
	Wood of cut trees shall be used for cremation and after planting 25 new trees on Government land/Public place, a physically verified report by Local Revenue Officer (Patwari) shall be submitted.	Only 2 trees cut till now and efforts are being taken to save other trees. Wood of cut trees are kept at site and shall be handed over to Nagar Palika, when all trees are cut as per design requirement
Aaraji No.3035/3026 and	Applicant shall cut the trees on his own expenses and within the stipulated duration.	Tree is cut at site and wood of tree is kept at site for further process Tree plantation shall be done by contractor.

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
1135 Pratapgarh (STP site)	• Applicant shall be responsible for his own for any damage/public loss • After bidding of wood of cut trees, the amount shall be deposited in treasury • Applicant shall plant 5 trees in place of 1 tree.	
PHED Campus, Banswara	• Due to the presence of electricity line, trees should be cut with proper protective measures. • There should be no issue in transportation on road area • There should be no damage/public loss • After bidding of wood of cut trees, the amount shall be deposited in treasury	10 nos. tree cutting has been done
3.8 MLD STP Site Ratangarh	• Tree cutting permission obtained from Municipal Council under letter no. 2021/1496 on dated 12.07.2021	
CWR & PH, Sirohi	• The Permission of 9 trees at CWR & PH obtained from Tehsildar office, Sirohi vide letter no. 2022/348 dated 16.03.2022 plantation of trees with its quadruple capacity	
Didwana	• The Permission for 5 Neem Tree cutting obtained from Tehsildar office under letter no. 3049-3051 on dated 07.12.2021	
Makrana	• The Permission of around 160 Neem trees at STP site (7.7 MLD) obtained from Municipal council, Makrana vide letter no. L/2021-22/3440 dated 16.12.21 plantation of trees with its thrice capacity	

COMPLIANCE STATUS WITH ENVIRONMENTAL LOAN COVENANTS**Table -8: Compliance with Environmental Loan Covenants**

Section	Loan Covenants	Compliance Status	Action Required
LA. Schedule 4. Execution of Project			
Implementation Arrangements	3. The Borrower shall ensure or cause the EA to ensure that its PMU, Zonal Project Offices, and its PIUs within the Project ULBs, employ sufficient staff including increasing the number of adequate staff as included in the PAM, with relevant expertise in the fields of project management, financial management, engineering, procurement, operations and management, and environmental and social safeguards implementation. The EA will ensure that the PMU, Zonal Offices, and the PIUs housed in the Project ULBs, are equipped with the necessary staff, office space, facilities, equipment, support staff and management information systems for the entire duration of the Project and thereafter.	Complied- Sufficient staff is mobilized in PMU, Zonal PIUs, and town PIUs as per PAM and equipped with required office, facilities, equipment and support staff	Nil
	4. The Borrower shall ensure or cause the EA to ensure that towards smooth implementation of the Project, grievances if any from stakeholders relating to the Project implementation or use of funds are addressed effectively and efficiently.	Being Complied, Grievance Redress Mechanism is functional	Nil
Counterpart Support	5. (c) As necessary, respective counterpart staff, land facilities, and implementation and monitoring of respective EMPs, RPs and RPPs as applicable (including unforeseen expenses beyond the estimates), utility shifting, operations and maintenance of Project facilities, and general Project management expenses in a timely manner through approved annual budget allocations or other means; and	Being complied- annual budget for expenses for project management is being allocated by Government	Nil
	(d) Sufficient funds to satisfy the EA's liabilities arising from any Works, Goods and/or Consulting Services contract under the Project.	Being complied- sufficient budget is allocated by Government	Nil
Subproject Selection Criteria	6. The Borrower shall ensure or cause the EA to ensure that: (a) All Subprojects are selected and approved in accordance with the agreed Subproject Selection Criteria and approval process stipulated in the PAM;	Being complied- all Subprojects are selected and approved in accordance with the agreed Subproject Selection Criteria	Nil
	(b) All documents forming the basis for screening, selection and processing of Subprojects are made available to ADB upon request and are kept for such purposes for a minimum period of five years after submission of the Project completion report.	Being complied- all documents as required by ADB are being provided by PMU	Nil

Section	Loan Covenants	Compliance Status	Action Required
Condition for award of contracts	11. The Borrower shall ensure, or cause the EA to ensure, that no Works contract is awarded which involves environmental impacts until the EA has: (a) Prepared, submitted and obtained final approval of the relevant IEE from ADB and the relevant forest and environment clearances from statutory authorities of the Borrower and the State as applicable;	Being Complied- all works are awarded after draft IEEs are approved by ADB, IEEs are being updated as per approved designs	Nil
	(b) Incorporated the relevant provisions from the respective EMP into the related Works contract;	Being Complied, IEE and EMP is part of works contracts	Nil
	(c) Prepared and submitted to ADB a groundwater sustainability report for each Subproject that involves ground water extraction.	Complied- Ground water sustainability report is included in IEEs, where ground water extraction is required	Nil
Safeguards-Environment	13. The Borrower shall ensure or cause the EA to ensure that the preparation, design, construction, implementation, operation and decommissioning of Subprojects and Project facilities comply with (a) all applicable laws and regulations of the Borrower and the State relating to environment, health, and safety; (b) the Environmental Safeguards; (c) the EARF; and (d) all measures and requirements set forth in the IEE (including the heritage impact assessment wherever applicable) and EMP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report. No Category A subprojects will be financed under the Project.	Being Complied- only category B projects are considered in RSTDSP, all the applicable laws and regulations are being complied, environmental safeguards as per EARF are being complied	Nil
	17. Notwithstanding the stipulation that no Category A Subprojects under environment, involuntary resettlement or indigenous people, will be financed under the Project, in the unforeseen situation of change in categorization of a Subproject that is under implementation, to Category A, the Borrower shall ensure or cause the EA to ensure, in consultation with ADB that such Subproject shall be completed in full compliance of the ADB Safeguard Policy requirements and applicable laws and regulations of the Borrower and the State.	Being Complied, all sub-projects are under Category B and not fulfilling the criteria of Category A	Nil
Human and Financial Resources to Implement Safeguards Requirements	18. The Borrower shall ensure or cause the EA to ensure that all necessary budgetary and human resources to fully implement the EMPs, the RPs and any RIPPs (as applicable) are made available on a timely basis.	Being Complied- required budget and staff is provided in all project towns	Nil

Section	Loan Covenants	Compliance Status	Action Required
Safeguards – Related Provisions in Bidding Documents and Works Contracts	19. The Borrower shall ensure or cause the EA to ensure that all bidding documents and contracts for Works contain provisions that require contractors to: (a) Comply with the measures and requirements relevant to the contractor set forth in the IEE, the EMP, the RP(s) and any RIPP, if any (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set out in a Safeguards Monitoring Report;	Being Complied- IEE and EMP is part of bid and contract documents of each project and being complied at site	Nil
	(b) Make available a budget for all such environmental and social measures;	Being complied- EMP cost is included in contract bids	Nil
	(c) Provide the EA with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, the RP/RIPP (as applicable);	Being Complied- any unanticipated environmental impacts are being reported to ADB through IEE updates, QPRs and SEMRs	Nil
	(d) Adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and	Being Complied- conditions of roads, agricultural land and other infrastructure are being recorded before start of construction works	Nil
	(e) Fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.	Pathways are restored as soon as construction is completed in that stretch. Permanent establishments (Stores, etc) Will be reinstated after construction is completed	NIL
Safeguards Monitoring and Reporting	20. The Borrower shall ensure or cause the EA to ensure the following: (a) submit semiannual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission;	Being complied- Semiannual Safeguards Monitoring Reports are being submitted to ADB	Nil
	(b) If any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEEs, the EMPs, the RPs or any RIPP (as applicable), promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and	Being Complied- any unanticipated environmental impacts are being reported to ADB through IEE updates, QPRs and SEMRs	Inform to ADB about any unanticipated environmental and/or social risks and impacts raised during construction works

Section	Loan Covenants	Compliance Status	Action Required
	(c) Report any breach of compliance with the measures and requirements set forth in the relevant EMP, the RP or RIPP (as applicable) promptly after becoming aware of the breach.	Will be Complied- any breach of compliance with the measures and requirements set forth in the relevant EMP, the RP or RIPP (as applicable) shall be reported to ADB	Inform to ADB about any breach of EMP, RP or RIPP
Prohibited List of Investments	21. The Borrower shall ensure or cause the EA to ensure that no proceeds of the Loan are used to finance any activity included in the list of prohibited investment activities	Complied- no prohibited investment activities are being considered in RSTDSP	Nil
Labor Standards	22. The Borrower shall ensure or cause the EA to ensure that Works contracts under the Subprojects and the Project follow all applicable labor laws of the Borrower and the State and that these further include provisions to the effect that contractors (i) carry out HIV/AIDS awareness programs for labor and disseminate information at worksites on risks of sexually transmitted diseases and HIV/AIDS as part of health and safety measures for those employed during construction; and (ii) follow and implement all statutory provisions on labor (including not employing or using children as labor, equal pay for equal work), health, safety, welfare, sanitation, and working conditions. Such contracts shall also include clauses for termination in case of any breach of the stated provisions by the contractors.	Being complied- HIV/AIDS awareness Training was carried out in Sardarshahar, Abu Road, Sirohi and will be done in Banswara, Mandawa, Khetri, Makrana, Kuchaman, Didwana & Ladnu towns in due course. Being Complied- Project is implementing all statutory provisions on labor (including not employing or using children as labor, equal pay for equal work), health, safety, welfare, sanitation, and working conditions.	Nil
Project Agreement. Article II. Particular Covenants			
Section 2.05.	(a) The State shall take out and maintain with responsible insurers, or make other arrangements satisfactory to ADB for, insurance of Project facilities to such extent and against such risks and in such amounts, as shall be consistent with sound practice.	Being Complied- all the required insurances as per contract agreement and need is being done in all projects	Nil
	(b) Without limiting the generality of the foregoing, the State, shall insure, or cause to be insured, the Goods to be procured including imported for the Project against hazards incident to the acquisition, transportation and delivery thereof to the place of use or installation, and for such insurance any indemnity shall be payable in a currency freely usable to replace or repair such Goods.	Being Complied- all the required insurances as per contract agreement is being done in all projects	Nil

3. COMPLIANCE STATUS WITH THE ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN

11. Environmental management and monitoring plan has been prepared for all the sub projects and included in respective IEEs. Periodical monitoring is conducted by environmental Professional and support staff of CMSC1 & 2 through site visits, public consultations, consultations with labors and contractors' staff, verifications of documents and environmental monitoring for ambient air and noise conditions, soil and water quality analysis through third party monitoring agencies.

12. As per IEEs, contractor is required to submit Site Specific EHS Plan (SEMP). SEMP of all 14 towns are submitted by the contractor and approved. Contractors are following mitigation measures as per SEMP and EMP at project sites.

13. Compliance status with the environmental management and monitoring plan of the sub-projects are given in following **Table 9**, photographs of safeguard compliance is shown in **Appendix 1**, and environmental site visit reports are attached in **Aappendix 4**.

ENVIRONMENTAL MONITORING TABLES

Table 9: EMP Compliance Status of All Sub-projects under RSTDSP

(Abbreviations of town names- RTG: Ratangarh, FTP: Fatehpur, LXM: Laxmangarh, SRD: Sardarshahar, SHR: Sirohi, ABR: Abu Road, PRT: Pratapgarh, BNS: Banswara, KTR: Khetri, MND:Mandawa, KMN: Kuchaman, LDN: Ladnu, MKR: Makrana, DID: Didwana)

Table 9A: Design Phase

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
Sewerage Treatment Plant- Odour nuisance and aesthetics: - Provide a green buffer zone of 10-20 m wide all around the STP, and 5-10 m around SPSs, with trees in multi-rows. This will act as a visual screen around the facility and will improve the aesthetic appearance. Treated wastewater shall be used for plantation. - Develop layout plan of STP such that odour generating units (such as sludge / solids handling facilities are located away from the surrounding area with future development potential.	- Buffer zone provided around STP with dense tree plantations - STP layout	C	C	NA	C	C	C	C	C	C	C	C	C	C	C	DBO Contract or / PIU
All Work sites-Tree cutting and site preparation: - Minimize removal of trees by adopting to site condition and with appropriate layout design of STP/SPS or any other site with trees - Obtain prior permission for tree cutting at STP/SPS site or at any other site that may require tree cutting finalized during detailed design - Plant and maintain 3 trees for each tree that is removed	- List of trees to be cut - Tree cutting permission - Compensatory plantations	C	C	C	C	C	BC	C	C	C	C	C	C	C	C	DBO Contract or / PIU/ CMSC/P MCBC
Design of water supply system - Non-compliance or non-adherence with the environmental considerations proposed in preliminary designs during detailed design: Ensure compliance with the following during the detailed design: - Adopting conjunctive use approach water source; utilizing feasible surface water sources and groundwater source optimally thereby reducing the existing groundwater abstraction to the extent possible - Locating components and facilities appropriately by avoiding sensitive locations like forests and protected areas (environmentally, socially, and archeologically). - Designing the entire system to maintain optimal flow and terminal pressure, and optimizing the overall energy usage. - Avoiding usage of asbestos containing materials. - Reducing the incidence of water borne diseases by providing 100% population including urban poor with potable water supplies - Provision of appropriate personal protection equipment to the workers and staff	- Project components away from environmentally sensitive areas - Energy efficient design - ACM management plan 100 % coverage of population with improved water supply - Use of PPEs by workers	NA	NA	C	C	C	C	NA	C	C	C	C	NA	NA	NA	DBO Contract or

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility	
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN		
Design sewerage system - Non-compliance or non-adherence with the environmental considerations proposed in preliminary designs during detailed design: Ensure compliance with the following during the detailed design: - Locating components and facilities appropriately by avoiding sensitive locations like forests and protected areas (environmentally, socially, and archeologically). - Treatment and reuse of sludge from treatment process; providing a covered shed of adequate space to air dry the processed sludge for at least 15 days at STPs - Designing the entire system to maintain optimal flow and terminal pressure, and optimizing the overall energy usage - Avoiding usage of asbestos containing materials - Reducing the incidence of water borne diseases by providing 100% population including urban poor with potable water supplies - Reuse of treated wastewater from STP for non-potable uses thereby reducing the load in freshwater resources - Adopting a combined approach of sewerage system and faecal sludge and Septage management to cover 100% population of the town with safe collection, conveyance and treatment of sewage generated in the town Provision of appropriate personal protection equipment to the workers and staff	- Project components away from environmentally sensitive areas - Reuse plan for treated effluent - Energy efficient design - ACM management plan - FSSM plan for areas where sewerage networks are not feasible	C	C	NA	C	C	C	C	C	C	C	C	NA	NA	NA	DBO Contract or/ PIU/ CMSC/PMCBC *Reuse plan for treated effluent is being prepared for the towns in consultation with ULBs	
		BC*	BC*	NA	BC*	BC*	BC*	BC*	BC*	BC*	BC*	BC*	NA	NA	NA		
		C	C	NA	C	C	C	C	C	C	C	C	NA	NA	NA		
		BC	BC	NA	BC	BC	BC	BC	BC	BC	BC	BC	NA	NA	NA		
		C	C	NA	C	C	C	C	C	C	C	C	NA	NA	NA		
Seismic sensitivity - Damage to infrastructure and potential risks: project area in moderate earthquake risk zone (Zone II): Designs of project component structures shall comply with relevant codes of design such as Bureau of Indian Standard (BIS) specifications for earthquake resistant design (IS: 1893: Criteria for earthquake resistant design of structures).	Earthquake resistant design of project structures	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO Contract or/PIU/ PMCBC
Groundwater source - Source sustainability and over exploitation of groundwater: - Prepare a groundwater harvesting and artificial recharge plan; - Creation of artificial recharge pits in public places / public buildings. Local body can issue a notification to this effect. - Household level artificial recharge (like roof top rainwater harvesting) should be encouraged. - Groundwater regulation – options to close / discontinue all the tube wells in houses used for domestic purposes in Town in a phased manner once the project is implemented		NA	NA	NA	BC	NA	C	NA	NA	BC	BC	NA	NA	NA	NA	NA	DBO contracto r/PIU/ PHED
Groundwater contamination: - Prepare a source protection plan for tube wells and open wells - Ensure proper construction of tube wells including casing	Tube wells and open wells	NA	NA	NA	BC	BC	BC	NA	NA	BC	BC	NA	NA	NA	NA	NA	PHED/PIU

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
pipes to prevent water contamination from well spaces, and due to flooding • Measures should be taken to control the open defecation, and to close all unsafe latrines (for example pit latrines). • Awareness programs shall be conducted regarding the sanitation practices and its effect on groundwater quality																
Water Treatment Plant (WTP) - Inefficient treatment, treated water characteristic not satisfying the standards: • Design treatment process that is suitable for raw water source characteristics duly considering the seasonal variation in quality if any • Duly consider quality of ground water that will be supplemented for surface water supply variations • Treated water and supplied water at consumer end should meet the drinking water standards all times	• Design parameters of WTP meeting with national standards • Raw water quality test reports • Treated water quality test reports	NA	NA	NA	NA	C	C	NA	C	NA	NA	NA	NA	NA	NA	DBO Contract or/ CMSC
Water Treatment Plant (WTP) - Design to prevent pollution due to waste water and sludge: • Ensure that the following are included in the WTP design: • Back wash water reuse system and sludge recovery and disposal system • Back water cycling components: Filter backwash holding tank, recovered water storage tank and pumping for • recycling • Sludge management system components: Gravity thickeners for sludge from clarifiers, mechanical sludge dewatering system, storage facility for dewater desludge • Disposal of sludge at a landfill or the disposal site provided by the ULB	• Design of WTP including back wash water recycle • Sludge management from WTP	NA	NA	NA	NA	C	C	NA	C	NA	NA	NA	NA	NA	NA	DBO Contract or/PIU
WTP, CWRs and STP - Hazardous/ harmful chemicals: • Reduce the use of chemicals in the treatment process to the extent possible (water treatment); provide non-chemical alternatives or easily recoverable and/or reusable chemicals or biocompatible alternatives. • Establish proper handling/ storage/ application system according to the relevant standards, safety precautions and prevent accidental release/spill • Provide leak/ spill detection, collection/ capture and safe disposal facilities such as chlorine absorption and	• Detail design of STP, WTP and CWR • Eye wash and shower facility included in STP design • Emergency response procedure for chemical hazard	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO Contract or/ PMCBC/ CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
neutralization facility • Provide ventilation, lighting, entry and exit facilities visible and audible alarm facilities to alert chemical/chlorine leak • Facility for isolation in the even to major leakages • Eye wash and shower facility • Personal protection and safety equipment for the operators (masks, oxygen cylinders, gloves, etc.,) • Provide training to the staff in safe handling and application of chemicals, material safety, and standard operating procedures and emergency responses • Develop emergency response procedures																
Clear Water Reservoirs (CWRs) - Hazardous / harmful chemicals: • Establish proper handling / storage / application system according to the relevant standards, safety precautions and prevent accidental release / spill • Provide ventilation, lighting, entry and exit facilities; visible and audible alarm facilities to alert chemical/chlorine leak • Personal protection and safety equipment for the operators (masks, oxygen cylinders, gloves, etc.,) • Provide training to the staff in safe handling and application of chemicals, material safety, and standard operating procedures and emergency responses • Develop emergency response procedures	• Chlorine handling, storage and safety plan • Use of PPEs by workers handling chlorine cylinders • Training records • Emergency response plan	NA	NA	C	C	C	C	NA	C	C	C	C	NA	NA	NA	DBO Contract or/ PMCBC/ CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility														
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN															
Sewage Treatment Plant (STP)- Hazardous / harmful chemicals: - Reduce the use of chemicals in the treatment process to the extent possible; provide non-chemical alternatives or easily recoverable and/or reusable chemicals or biocompatible alternatives. - Establish proper handling / storage / application system according to the relevant standards, safety precautions and prevent accidental release / spill - Provide leak/spill detection, collection / capture and safe disposal facilities such as chlorine absorption and neutralization facility - Provide ventilation, lighting, entry and exit facilities; visible and audible alarm facilities to alert chemical/chlorine leak - Facility for isolation in the event of major leakages - Eye wash and shower facility - Personal protection and safety equipment for the operators (masks, oxygen cylinders, gloves, etc.,) - Provide training to the staff in safe handling and application of chemicals, material safety, and standard operating procedures and emergency responses - Develop emergency response procedures	- Detail design of STP - Eye wash and shower facility included in STP design - Emergency response procedure for chemical hazard	C	C	NA	C	C	C	C	C	C	C	C	C	C	C	DBO Contract or/ CMSC														
Sewage Treatment Plant (STP)- Inefficient sewage treatment, treated effluent characteristics not satisfying the CPCB/RPCB standards: - Ensure that the selected process is appropriate for the town and meets discharge standards and facilitate reuse (Treated effluent should meet the criteria set by RSPCB/CPCB or the following bid specified parameters, whichever are stringent:<table><tr><td>pH</td><td>6.5 – 9.0</td></tr><tr><td>BOD5, mg/l</td><td>≤10</td></tr><tr><td>COD, mg/l</td><td>≤50</td></tr><tr><td>TSS, mg/l</td><td>≤20</td></tr><tr><td>NH4-N, mg/l</td><td><25</td></tr><tr><td>Total nitrogen, mg/l</td><td><10</td></tr><tr><td>Fecal Coliform, MPN/100 ml</td><td><1000</td></tr></table>	pH	6.5 – 9.0	BOD5, mg/l	≤10	COD, mg/l	≤50	TSS, mg/l	≤20	NH4-N, mg/l	<25	Total nitrogen, mg/l	<10	Fecal Coliform, MPN/100 ml	<1000	- BOD at 20°C for 5 days- less than 10 mg/l - Total suspended Solids (TSS)- less than 20 mg/l - Total nitrogen- less than 10 mg/l	C	C	NA	C	C	C	C	C	C	C	C	C	C	C	DBO Contract or/ PMCBC/ CMSC
pH	6.5 – 9.0																													
BOD5, mg/l	≤10																													
COD, mg/l	≤50																													
TSS, mg/l	≤20																													
NH4-N, mg/l	<25																													
Total nitrogen, mg/l	<10																													
Fecal Coliform, MPN/100 ml	<1000																													

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
Change in raw sewage quality - Mixing of industrial effluent with sewage: - No industrial wastewater shall be allowed to dispose into municipal sewers - As there is a risk of potential mixing of industrial waste, no domestic wastewater from industrial units shall be allowed into municipal sewers - Ensure that there is no illegal discharge through manholes or inspection chambers - Conduct public awareness programs; in coordination with RSPCB and CLC. - Conduct regular wastewater quality monitoring (at inlet and at outlet of STP) to ensure that the treated wastewater quality complies with the effluent standards	- Separate sewerage networks for domestic sewage - Outlet parameters as per latest Govt. norms	C	C	NA	C	C	C	C	C	C	C	C	C	C	C	DBO Contract or and PIU / PMU
Sewage Treatment Plant (STP)- Use of treated wastewater for reuse applications: - Develop wastewater reuse plan for Town in consultation with CLC as per the Sewerage and Wastewater Policy, 2016. The Reuse Plan shall inter alia include the following: - Identify potential reuse application in Town, and establish quality criteria for each of the use - For applications that use treated wastewater directly (e.g., agriculture), the quality required for such application in safe manner considering health, environment and crop yield concerns shall be ensured; - Prepare a reuse plan for agriculture, if that is the priority use or one of the applications as per the CLC in Town, clearly indicating the limits (geographical / crops / type of application / type of soils etc.); adopt international good practice suggested by agencies like World Health Organization (WHO), Food and Agricultural Organization (FAO) of the United Nations. - Plan should include awareness and training provisions and responsibilities; these can be conducted by concerned department (e.g., Agricultural Department, District Collectorate) - Carryout regular / online monitoring of critical quality parameters of treated wastewater to ensure that they meet the preset standards established for reuse	- Reuse plan for treated effluent - Outlet parameters as per latest Govt. norms	- BC* - C	- BC* - C	NA	- BC* - C	- BC* - C	- BC* - C	- BC* - C	- BC* - C	- BC* - C	- BC* - C	- BC* - C	- BC* - C	- BC* - C	- BC* - C	DBO Contract or / PIU/CMS C/ PMCBC **Reuse plan for treated effluent is being prepared for the towns in consultation with ULBs
STP - Treated effluent discharge into water channel/drains and associated impacts on river water and downstream users:	Consent to Establish from RSPCB	- C - BC*	- C - BC*	NA	- C - BC*	- C - BC*	- C - BC*	- C - BC*	- C - BC*	- C - BC*	- C - BC*	- C - BC*	- C - BC*	- C - BC*	- C - BC*	Contract or/PIU

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
- Obtain of consent of RSPCB for discharge of treated wastewater into drains - Conduct a baseline water quality assessment of receiving water body - Regularly monitor the treated wastewater quality at STP and ensure that it meets the discharge standards Monitor water quality periodically during operation phase as per the Environmental Monitoring Plan	- Reuse plan of treated effluent - STP effluent- monitoring - Water Quality monitoring of receiving water body	- TC# - BC	- TC# - BC		- TC# - BC	- TC# - BC	- TC# - BC	- TC# - BC	- TC# - BC	- TC# - BC	- TC# - BC	- TC# - BC	- TC# - BC	- TC# - TC	- TC# - TC	*Reuse plan for treated effluent is being prepared for the towns in consultation with ULBs # Will be done during Operation phase of the project.
Sewage Treatment Plant (STP)/WTP- Sludge management and reuse: - Prepare a sludge management plan - Prepare a dried Sludge utilization plan for Town with the help of Agriculture Department / CLC; plan should also include if any additional processing is required for sludge to use as soil conditioner - Plan should clearly identify various potential uses and demand in Town and surroundings - Establish usage limits, where required, (geographical / crops / type of application / type of soils etc.); adopt international good practice suggested by agencies like World Health Organization (WHO), Food and Agricultural Organization (FAO) of the United Nations. - Identify a landfill / suitable site for disposal of surplus dried sludge - Monitor sludge quality during operation phase as per the Environmental Monitoring Plan, ensure that it meets the quality parameters established by FCO - In case of sludge not meeting the quality parameters, it shall not be used as soil condition, and shall be disposed at appropriate disposal site (if it falls under hazardous category, it shall be disposed as per the Hazardous Waste Management Rules, 2016)	Reuse plan for treated sludge	BC*	BC*	NA	BC*	BC*	BC*	BC*	BC*	BC*	BC*	BC*	BC*	BC*	BC*	DBO Contract or/PIU *Reuse plan for treated Sludge is being prepared for the towns in consultation with ULBs
Sewage pumping stations - Handling and disposal of accumulated waste at identified disposal sites: - Prepare a waste handling and management plan for the work, considering handling, disposal and occupational and public health safety - Assess the working conditions, develop appropriate working method, and work shall be only conducted under continuous supervision of EHS supervisor	Waste Management Plan as per Solid Waste Management Rules 2016	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contract or/PIU

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
- Waste shall not be handled manually; use appropriate equipment - All workers shall be provided with necessary personal protection equipment, including gloves, boots, face / gas masks and oxygen cylinders in handy for emergency use etc.; if gas emission is suspected at any point of time, workers shall use gas masks with oxygen cylinders - Inform surrounding public about the work - Fire control and safety equipment shall be provided at the work site - Waste shall be properly covered during transport - Manage the solid waste as per the Solid Waste Management Rules, 2016																
Sewage pumping stations - Noise and odour generation from sewage pumping operations, and public and occupational safety: - Provide low noise, efficient pumping systems - Provide dedicated power supply to SPS, if possible, otherwise DG set to be used during power failure, should be soundproof and having acoustic enclosures with low/permitted air emission standards - Design SPS with appropriate retention time, so as not to retain the sewage in the sump for long time to avoid generation of odorous gases - Firm barricades should be provided all round during construction of SPS; - Boundary wall of sufficient height should be provided during operation phase so that no children/residents can enter in the SPS premises - Plantations should be provided if space available to reduce foul smell of sewer during operation - No worker's camps should be allowed during construction works at SPS site - Entry should be restricted through provision of gate and guard during SPS operation. - Highest Flood Level (HFL) should be used as a basis while deciding on the SPS dimensions. Also, all the prevention methods including buffer capacity secondary tank and alternative power arrangements should be implemented so that sewage does not either leak during power outages or percolate into ground and pollute	Design of SPS covering all these parameters	C	C	NA	C	C	C	C	C	C	C	C	C	C	C	DBO Contract or/PIU

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility	
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN		
water.																	
Sewer network – collection and conveyance - Poor design leading to overflows, blockages, and creating nuisance, pollution: Limit the sewer depth where possible - Sewers shall be laid away from water supply lines and drains (at least 1 m, wherever possible); - In all cases, the sewer line should be laid deeper than the water pipeline (the difference between top of the sewer and bottom of water pipeline should be at least 300 mm) - In unavoidable, where sewers are to be laid close to storm water drains, appropriate pipe material shall be selected (stoneware pipes shall be avoided) - For shallower sewers and especially in narrow roads, use small inspection chambers in lieu of manholes; - Design manhole covers to withstand anticipated loads and ensure that the covers can be readily replaced if broken to minimize silt/garbage entry - Ensure sufficient hydraulic capacity to accommodate peak flows and adequate slope and gas vents in gravity mains to prevent buildup of solids and hydrogen sulfide generation - Take necessary precautionary measures to protect sewer network, and to avoid disposal of solid wastes, debris, wastewater into newly laid sewers from the time it is constructed to the start of operation phase	Sewer network design covering all these parameters	C	C	NA	C	C	C	C	C	C	C	C	C	C	DBO Contract or/PIU/ PMCBC		
FSSM - Occupational health and safety issues, and impact on STP process: Conduct detailed survey of the households to be covered with FSSM to design the system to suit the local conditions, such as type of septic tanks and their location in the houses - Create awareness program on the FSSM from collection to treatment system that will be adopted - Design the sewage treatment process duly considering mixing of Septage - Ensure that the FSSM system is completely mechanized no human touch, even accidentally, from collection at household to discharge into STP, and in periodic cleaning of tankers - Demarcate a proper area for cleaning of mobile tankers in STP premises, and ensure that the wastewater shall be discharged into STP	FSSM plan and design covering all these requirements	C	C	NA	C	C	C	C	C	C	C	C	C	C	C	C	DBO Contract or

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
• Provide proper training to the workers, and staff in safe handling of FSSM tasks, provide all necessary personal protection equipment • Ensure proper facilities for workers including showers, wash areas, toilets, drinking water, eating and resting places • Conduct regular health checks • Prepare Health and Safety Plan for FSSM																
Physical Cultural resource - Encroachment/ damage to protected monuments and chance finds: • consult Department of Archaeology and Museums to obtain an expert assessment of the archaeological potential of the site; • consider alternatives if the site is found to be of high risk; • include state and local archaeological, cultural and historical authorities, and interest groups in consultation forums as project stakeholders so that their expertise can be made available; and • develop a protocol for use by the construction contractors in conducting any excavation work, to ensure that any chance finds are recognized and measures are taken to ensure they are protected and conserved. This should involve: - Having excavation observed by a person with archaeological field training; contractor should employ a person with a formal certification course in archaeology from recognized (such as Institute of Archaeology, ASI, Delhi) during the ground excavation activities - Conduct awareness training to contractor & supervision staff prior to start of excavation; - Stopping work immediately to allow further investigation if any finds are suspected; Calling in the ASI if a find is suspected, and taking any action they require to ensure its removal or protection in situ	• List of ASI/State protected monuments • Chance Finds protocol	NA C	NA C	NA C	NA C	NA C	NA C	NA C	NA C	NA C	NA C	NA C	NA C	NA C	NA C	DBO Contract or/ PIU/ CMSC/ PMCBC
Asbestos cement (AC) pipes in existing water supply system & Other locations: clearing, transfer and disposal; work in narrow streets, and interventions in existing AC pipelines - Health impacts due to air borne asbestos if handled unsafely, cut, drilled or broken into pieces: • Develop ACM Management Plan (AMP) that includes identification of hazards, the use of proper safety gear and disposal methods. • (Conduct awareness program on safety during the construction work • Undertake the construction work stretch-wise; excavation, pipe laying and trench refilling should be completed on the same day	• ACM plan covering all these requirements	NA	NA	BC	BC	BC	BC	NA	BC	BC	BC	BC	NA	NA	NA	DBO Contract or/PIU/ PMCBC/ CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
• (Provide barricades, and deploy security personnel to ensure safe movement of people and also to prevent unnecessary entry and to avoid accidental fall into open trenches • Identify risk of intervention with existing AC pipes. If there is significant risk, implement the AMP strictly that includes identification of hazards, the use of proper safety gear and disposal methods. • Maintain records of AC pipes as per the AMP • Refer to the instructions of the Asbestos Expert																
Asbestos materials in existing PHED campus- Health impacts due to air borne asbestos if handled unsafely, cut, drilled or broken into pieces: • Conduct risk assessment to determine extent of asbestos materials currently on-site • Coordinate and provide support to the asbestos management service provider on the requirement of sampling, testing and disposing existing asbestos materials • Ensure the selected area for temporary storage is suitable for safe storage of asbestos materials • Incorporate international and national standards considered in designing the temporary storage • Ensure that handling and disposal of asbestos materials are carried out by specially trained service provider/s following Government of India requirements, or in their absence, internationally recognized procedures	• ACM plan covering all these requirements	NA	NA	BC	BC	BC	BC	NA	BC	BC	BC	BC	NA	NA	NA	DBO Contract or/PMU
Preparation of plans and protocols - Various impacts: • Preparation of waste handling and management plan for SPS sites • Prepare traffic management plan • Prepare occupational health and safety plan • Prepare spoils management plan	• Site Specific Environment, Health and Safety plan, covering all these plans	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO Contract or CMSC and PMCBC

C- Compiled, TC – To be complied, BC- Being Complied

Table 9 B. Pre-Construction Phase

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														LDN	Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MNW	KMN	DID	MKR			
Compliance with environmental subproject selection criteria - Environmental impacts due to subproject: Compliance with environmental subproject selection criteria	Compliance with environmental subproject selection criteria	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO Contractor, PIU, CMSC/PMCBC	
Environmental monitoring of baseline conditions of air, noise, water and soil - To establish base line environmental conditions: Environmental monitoring through NABL accredited laboratory	Baseline environmental monitoring of ambient air, noise, water and soil conducted	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO contractor	
Legal compliance - Environmental legal noncompliance may attract legal actions Failure to obtain necessary consents Permits, NOCs etc. can result to design revisions and /or stoppage of works: - Obtain all consents, clearances (CTE/CTO from RSPCB), permits NOCs etc. before start of construction works - Ensure that all necessary approvals for construction to be obtained by contractor are in place before start of construction - Following consents are required- - Tree cutting-local authority - Storage, handling and transport of hazardous materials- RSPCB - Sand mining, quarries, borrow areas- Department of mines and Geology - Traffic diversion/road cutting- local authority, traffic police - Acknowledge in writing and provide report on compliance all obtained consents, permits, clearance, NOCs etc. Include in detailed design drawings and documents all conditions and provisions; if necessary	List of consents required as per IEE	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO contractor/ PIU/Consultants	
Utilities - Telephone lines, electric poles and wires, water lines within proposed project area: - Identify and include locations and operators of these utilities in the detailed design documents to prevent unnecessary disruption of services during construction phase; and - Require construction contractors to prepare a contingency plan to include actions to be taken in case of unintentional interruption of services. - Require contractors to prepare spoils management plan	- List of affected utilities - Utilities contingency plan - Spoil management plan	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO Contractor in collaboration with PIU and with approval of PMU	
Social and Cultural Resources - Ground disturbance can uncover and damage archaeological and historical remains: Develop a protocol for use by the construction contractors in conducting any excavation work, to ensure that any chance finds are recognized, and	Chance finds protocol	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO Contractor/ CMSC and PIU	

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MNW	KMN	DID	MKR	LDN	
measures are taken to ensure they are protected and conserved																
Construction work camps, hot mix plants, stockpile areas, storage areas, and disposal areas.- Disruption to traffic flow and sensitive receptors: - Prioritize areas within or nearest possible vacant space in the project location; - If it is deemed necessary to locate elsewhere, consider sites that will not promote instability and result in destruction of property, vegetation, irrigation, and drinking water supply systems; - Do not consider residential areas; - Take extreme care in selecting sites to avoid direct disposal to water body which will inconvenience the community. - For excess spoil disposal, ensure - o site shall be selected preferably from barren, infertile lands. In case agricultural land needs to be selected, written consent from landowners (not lessees) will be obtained; (b) debris disposal site shall be at least 200 m away from surface water bodies; (c) no residential areas shall be located within 50 m downwind side of the site; and (d) site is minimum 250 m away from sensitive locations like settlements, ponds/lakes or other water bodies.	- Location plan of Construction work camps, hot mix plants, stockpile areas, storage areas, and disposal areas - Spoil management plan	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO Contractor/ CMSC and PIU
Sources of Materials - Extraction of materials can disrupt natural land contours and vegetation resulting in accelerated erosion, disturbance in natural drainage patterns, ponding and water logging, and water pollution: - Prioritize sites already permitted by the Department of Mines and Geology - If other sites are necessary, inform construction contractor that it is their responsibility to verify the suitability of all material sources and to obtain the approval of PMU and - If additional quarries will be required after construction is started, inform construction contractor to obtain a written approval from PIU.	Permission from Govt. for procurement of construction materials	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO Contractor to prepare list of approved quarry sites and sources of materials with the approval of PIU
Consents, permits, clearances, NOCs, etc.- Failure to obtain necessary consents, permits, NOCs, etc. can result to design revisions and/or stoppage of works: - Obtain all necessary consents (including CTE for STP from RSPCB), permits, clearance, NOCs, etc. prior to award of civil works. Following consents are required- - Tree cutting- local authority - Storage, handling and transport of hazardous	List of consents required as per IEE	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor and PIU and Consultant

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MNW	KMN	DID	MKR	LDN	
materials- RPCB • Sand mining, quarries, borrow areas- Department of mines and Geology • Traffic diversion/road cutting- local authority, traffic police • Ensure that all necessary approvals for construction to be obtained by contractor are in place before start of construction • Acknowledge in writing and provide report on compliance all obtained consents, permits, clearance, NOCs, etc. • Include in detailed design drawings and documents all conditions and provisions if necessary																
Asbestos materials in existing PHED campus & other Locations - Health impacts due to air borne asbestos if handled unsafely, cut, drilled or broken into pieces: • Coordinate and provide support to the asbestos management service provider on the requirement of sampling, testing and disposing existing asbestos material • Coordinate and implement the the construction of the temporary storage per specification of the asbestos management service provider • Provide support to the asbestos management service provider supervising the removal, transport, disposal and documentation of the asbestos materials • Conduct awareness workshops and trainings to stakeholders on the risks of the asbestos materials • Maintain records of asbestos materials inventory • Ensure that handling and disposal of asbestos materials are carried out by specially trained service provider/s following Government of India requirements, or in their absence, internationally recognized procedures	ACM plan covering all these requirements	NA	NA	BC	BC	BC	BC	NA	BC	BC	BC	BC	NA	NA	NA	DBO Contractor/PIU/CMSC

C- Compiled, TC – To be complied. BC- Being Complied

Table 9 C: Construction Phase

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)													LDN	Responsibility	
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR			
EMP Implementation - Irreversible impact to the environment, workers, and community: Contractor is required to depute a qualified and experienced EHS officer/supervisor for monitoring of EMP implementation measures Project manager and all key workers will be required to undergo EMP implementation including spoils management, Standard operating procedures (SOP) for construction works; occupational health and safety (OH and S), core labor laws, applicable environmental laws, etc.	- EHS officer deputed by contractor - Training for project manager and other key workers conducted in pre-construction phase	C	C	C	C	C	C	C	C	C	C	C	C	C	C	Construction Contractor/ PMCB/ CMSC	PIU
Air Quality - Emissions from construction vehicles, equipment, and machinery used for installation of pipelines resulting to dusts and increase in concentration of vehicle-related pollutants such as carbon monoxide, sulfur oxides, particulate matter, nitrous oxides, and hydrocarbons: - Plan the work sites properly, and demarcate the sites for stockpiling of, soils, gravel, and other construction materials away from the traffic, vehicle, general worker movement to avoid disturbance of loose materials - Damp down exposed soil and any stockpiled material on site by water sprinkling; - Use tarpaulins to cover sand and other loose material when transported by trucks; - Clean wheels and undercarriage of haul trucks prior to leaving construction site - Don't allow access in the work area except workers to limit soil disturbance and prevent access by barricading and security personnel - Fit all heavy equipment and machinery with air pollution control devices which are operating correctly - contractor's vehicles and equipment should compulsorily have PUC and submit to PIU before deployment at site - Obtain, CTE and CTO for batching plant, hot mix plant, crushers and DG set etc. if specifically established for this project. - If contractor procures any material (such as ready mix concrete, asphalt/macadam, aggregates etc.,) from third party agencies, contractor shall ensure	- Site plan of stockyard for soil, gravel and other construction materials - Covered transport of loose materials - PUC of vehicles - CTE/CTO of batching plant, hot mix plant, crushers and DG sets - Construction raw materials from authorized sources - Air quality monitoring conducted	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU	CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
that such agencies have all necessary clearances / permissions as required under the law; these include CTE/CTO from RSPCB, environmental clearance, etc.; contractor shall collect the copy of these certificates and submit to PIU; PIU will approve the source only after all the certificates are submitted Conduct air quality monitoring according to the Environmental Management Plan (EMP).																
Surface water quality - Works in rains/ Mobilization of settled silt materials, and chemical contamination from fuels and lubricants during installation of pipelines can contaminate nearby surface water quality: - Prepare and implement a spoils management plan - Avoid stockpiling of earth fill especially during the monsoon season unless covered by tarpaulins or plastic sheets; - Prioritize re-use of excess spoils and materials in the construction works. If spoils will be disposed, consult with PIU on designated disposal areas; - Inspect all the drainage at construction site/construction camp/labor camp etc. and clear all the drainage lines so that no water stagnation/flooding may occur during heavy rainfall - As for a possible avoid trench works and excavation works (pipe laying) during monsoon season to avoid any water logging and accident due to it - If open trenches are not avoidable during monsoon, keep ready all the mitigations measures to avoid water logging such as dewatering pumps and sufficient pipes, traffic assistance, barricades etc. - Inspect and verify all the emergency measures and emergency control system before start of monsoon, keep the emergency response committee on high alert during monsoon/heavy rain fall - Install temporary silt traps or sedimentation basins along the drainage leading to the water bodies;	- Spoils management plan - Stockpiling of soils - Inspection of drainage pattern at stockyard - Monsoon preparedness plan - Emergency preparedness plan	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC/ PMCBC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														LDN	Responsibility
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR			
- Place storage areas for fuels and lubricants away from any drainage leading to water bodies; - Dispose any wastes generated by construction activities in designated sites; and - Conduct surface quality inspection according to the Environmental Management Plan (EMP).																	
Surface water quality - Degradation of water quality of Angore, Kalka Ji and Bhainsa Singh dams due to intake works: - Select a construction methodology that is least disturbing, and appropriate for the in-situ soil condition, and able to complete the construction work prior to onset of monsoon - Schedule the construction works during low water level period – late winter months to pre monsoon (February – June/July); ensure that works are completed during the same period to prior to onset of monsoon; - Erect temporary barriers to form enclosed construction area with least disturbance - Allow adequate time to settle the distributed solids to prior to pumping out water; only clear/clarified water shall be pumped back into the reservoir; any silt laden water should be pumped to a silt pond - Avoid/minimize use of fuels, chemicals and lubricants; ensure no spillage - Clear the work site after completion at least to pre project conditions, ensure that there are no materials, debris, spills etc., and prior to removal of temporary barriers / coffer dam - Implement work site safety at works in water bodies	- Construction work plan - Work schedule - Safety arrangements - Water quality monitoring	NA	NA	NA	NA	TC*	TC*	NA	BC	NA	NA	NA	NA	NA	NA	DBO contractor/ PIU/ CMSC/ PMCBC *will be complied during execution. Execution not yet started.	
Noise Levels - Increase in noise level due to earth-moving and excavation equipment, and the transportation of equipment, materials, and people: - Plan activities in consultation with PIU/Consultant so that activities with the greatest potential to generate noise are conducted during periods of the day which will result in least disturbance; - Horns should not be used unless it is necessary to warn other road users or animals of the vehicle's approach;	- Use of PPEs to reduce impact of sound on workers - Checking of vehicle silencers, noise-reducing mufflers - Noise quality monitoring at sites	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC	

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
- Minimize noise from construction equipment by using vehicle silencers, fitting jackhammers with noise-reducing mufflers, and portable street barriers the sound impact to surrounding sensitive receptor; and - Maintain maximum sound levels not exceeding 80 decibels (dB A) when measured at a distance of 10 m or more from the vehicle/s. - Periodical monitoring of noise quality as per EMP																
Landscape and aesthetics - Impacts due to excess excavated earth, excess construction materials, and solid waste such as removed concrete, wood, packaging materials, empty containers, spoils, oils, lubricants, and other similar items: - Prepare and implement spoils management plan - Avoid stockpiling of excess excavated soils; - Coordinate with ULB/PIU for beneficial uses of excess excavated soils or immediately dispose to designated areas; - Recover used oil and lubricants and reuse or remove from the sites; - Manage solid waste according to the following preference hierarchy: reuse, recycling and disposal to designated areas; - Remove all wreckage, rubbish, or temporary structures which are no longer required; and - Request PIU to report in writing that the necessary environmental restoration work has been adequately performed before acceptance of work	- Spoils management plan - Solid waste management plan - Site observations	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC
Existing Infrastructure and Facilities - Disruption of service and damage to existing infrastructure at specified project location: - Obtain from PIU the list of affected utilities and operators if any; - Prepare a contingency plan to include actions to be done in case of unintentional interruption of service	- List of affected utilities and contingency plan to restore if damaged - Site observations	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)													Responsibility	
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR		LDN
Ecological Resources – Terrestrial - Loss of vegetation and tree cover: - Minimize removal of vegetation and disallow cutting of trees; - If tree-removal will be required, obtain tree-cutting permit from the concerned department; and - Plant 3 native trees for every one that is removed	- Tree cutting list - Tree cutting permission - Compensatory plantation	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC
Land Use- Environmental Issues due to land use change: The impact due to change in land use will be negligible due to this project	Land documents of sites	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC
Accessibility - Traffic problems and conflicts near project locations and haul road: - Plan sewer line works to minimize traffic disturbance / blockades; as the sewer lines are to be laid in all the roads and streets in the town, work planning is crucial to minimize the inconvenience to public. - Prepare and implement a Traffic Management Plan - Duly consider and select sections for trenchless method of pipe laying based on traffic conditions - Plan transportation routes so that heavy vehicles do not use narrow local roads, except in the immediate vicinity of delivery sites; - Schedule transport and hauling activities during non-peak hours; - Locate entry and exit points in areas where there is low potential for traffic congestion; - Keep the site free from all unnecessary obstructions; (Drive vehicles in a considerate manner; - Coordinate with Traffic Police for temporary road diversions and with for provision of traffic aids if transportation activities cannot be avoided during peak hours; - Notify affected sensitive receptors 1-week in advance by providing sign boards informing nature and duration of construction works and contact numbers for concerns/complaints. - Plan and execute the work in such a way that the period of disturbance/ loss of access is minimum.	- Work Plan - Traffic Management Plan - Site observations - Project information boards - Prior public consultations by contractor’s team - Accessibility provided during works	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														LDN	Responsibility
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR			
• Provide pedestrian access in all the locations until normalcy is restored. Provide wooden/metal planks over the open trenches at each house to maintain the access																	
Socio-Economic – Income. - Impede the access of residents and customers to nearby shops: • Prepare and implement spoils management plan • Contractor to Implement RP and to follow mitigation measures prescribed • Leave spaces for access between mounds of soil; • Provide walkways and metal sheets where required for people; • Increase workforce in front of critical areas such as institutions, place of worship, business establishment, hospitals, and schools; • Consult businesses and institutions regarding operating hours and factoring this in work schedules; and • Provide sign boards for pedestrians to inform nature and duration of construction works and contact numbers for concerns/complaints.	• Spoil management plan • Mitigation measures as per RP and IEE • Prior public consultations by contractor’s team with shopkeepers • Project information boards	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/CMSC	
Socio-Economic - Employment - Generation of temporary employment and increase in local revenue: • Employ local labour force, or to the maximum extent possible • Comply with labor laws	Labour records	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor	
Occupational Health and Safety - Occupational hazards which can arise during work: • Comply with all national, state and local core labor laws • Following best practice health and safety guidelines: IFC’s General EHS Guidelinesⁱ⁴ and	• Site specific EHS Plan • Work plans • Use of PPEs by workers	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor	

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
Sector Specific (Sanitation) Guidelines - Develop and implement site-specific occupational health and safety (OH and S) Plan which will include measures such as: a) excluding public from the site; (b) ensuring all workers are provided with and use personal protective equipment like helmet, gumboot, safety belt, gloves, nose musk and ear plugs; (c) OH and S Training for all site personnel; (d) documented procedures to be followed for all site activities; and (e) documentation of work-related accidents; - Conduct work in confine spaces, trenches, and at height with suitable precautions and using standards and safe construction methods; do not adopt adhoc methods; all trenches deeper than 1.5 m shall be provided with safety shoring/braces; and avoid open cutting method for trenches deeper than 3.5 m by adopting trenchless technology - Develop site specific OHS plan for sewage pumping stations works; SPS sites are located in low lying areas with accumulated waste and harmful working conditions - Ensure that qualified first-aid can be provided at all times. Equipped first-aid stations shall be easily accessible throughout the site; - Provide medical insurance coverage for workers; - Secure all installations from unauthorized intrusion and accident risks; - The project area experiences extreme temperature during summer months of April and May, which may affect the health of workers engaged in construction work. Contractor should take necessary measures during summers including the following: - o work schedule should be adjusted to avoid peak temperature hours (12 – 3 PM); (b) provide appropriate shade near the workplace; allow periodic resting and provide adequate water, and (c) provide necessary medicine and facilities to take care of dehydration related health issues - Provide supplies of potable drinking water; - Provide clean eating areas where workers are not	- Safety signage and information boards - Drinking water and rest sheds - First aid facilities at site - Site protection and barricades - Medical and health insurance of workers - Health check-up records of workers - Safety trainings/ orientations records - Solid waste management - Site observations															

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)															Responsibility
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN		
exposed to hazardous or noxious substances; • Provide H and S orientation training to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuring to fellow workers; • Provide visitor orientation if visitors to the site can gain access to areas where hazardous conditions or substances may be present. Ensure also that visitor/s do not enter hazard areas unescorted; • Ensure the visibility of workers through their use of high visibility vests when working in or walking through heavy equipment operating areas; • Ensure moving equipment is outfitted with audible back-up alarms; • Mark and provide sign boards for hazardous areas such as energized electrical devices and lines, service rooms housing high voltage equipment, and areas for storage and disposal. Signage shall be in accordance with international standards and be well known to, and easily understood by workers, visitors, and the general public as appropriate; • Disallow worker exposure to noise level greater than 85 dB A for a duration of more than 8 hours per day without hearing protection. The use of hearing protection shall be enforced actively. • Conduct regular health check-ups for workers • Provide periodical awareness camps and special trainings for workers for health issues and risks in construction sites • Provide proper solid and liquid waste management system in workers' campsite, separate from spoils and debris disposal, as their presence can add to existing waste volume at the project sites.																	
Occupational and community health and safety - Hazardous working conditions due to presence of asbestos containing material / AC Pipes in work sites: clearing, transfer and disposal; work in narrow streets, and interventions in existing AC pipelines Health impacts due to air borne asbestos if handled unsafely, cut, drilled or broken into pieces:	• Site specific EHS Plan • Work plans • Use of PPEs by workers • Safety signage and information boards	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility	
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN		
- Implement the ACM Management Plan (AMP) that includes identification of hazards, the use of proper safety gear and disposal methods. - Conduct awareness program on safety during the construction work - Undertake the construction work stretch-wise; excavation, pipe laying and trench refilling should be completed on the same day - Provide barricades, and deploy security personnel to ensure safe movement of people and also to prevent unnecessary entry and to avoid accidental fall into open trenches - Identify risk of intervention with existing AC pipes. If there is significant risk, implement the AMP strictly that includes identification of hazards, the use of proper safety gear and disposal methods. - Appropriate actions as defined in the Asbestos Management Plan will have to be adhered to - Maintain records of AC pipes as per the AMP	- Drinking water and rest sheds - First aid facilities at site - Site protection and barricades - Medical and health insurance of workers - Health check-up records of workers - Safety trainings/ orientations records - Solid waste management - Site observations																
Community Health and Safety.- Traffic accidents and vehicle collision with pedestrians during material and waste transportation: - Trench excavation and pipeline works shall be conducted in a safe manner; if the allowing public movement along the work sites (pedestrians or vehicles as the case may be) is likely to cause safety risks, movement should be blocked temporarily and work shall be conducted; in such areas, conducting night work or working in small stretches to avoid blockage of traffic/movement no more than few hours in due consultation with the local community and ULB shall be planned - All trenches deeper than 1.5 m shall be provided with safety shoring/braces; and avoid open cutting method for trenches deeper than 3.5 m by adopting trenchless technology - Survey the surrounding vulnerable buildings for likely issues in structural stability / differential settlement during the excavation works - Provide prior information to the local people about the - Plan routes to avoid times of peak-pedestrian activities.	- Work plan - Barricades - Trench safety - Public consultation records with nearby residents - Safety signage and project information boards	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)															Responsibility
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN		
• Liaise with PIU/ULB in identifying high-risk areas on route cards/maps. • Maintain regularly the vehicles and use of manufacturer-approved parts to minimize potentially serious accidents caused by equipment malfunction or premature failure. • Provide road signs and flag persons to warn of on-going trenching activities																	
Safety of sensitive groups (children, elders etc.) and other pedestrians in narrow streets - Trench excavation in narrow streets will pose high risk to children and elders in the locality: • Provide prior information to the local people about the nature and duration of work • Conduct awareness program on safety during the construction work • Undertake the construction work stretch-wise; excavation, pipe laying and trench refilling should be completed on the same day • Provide barricades, and deploy security personnel to ensure safe movement of people and also to prevent unnecessary entry and to avoid accidental fall into open trenches	• Work plan • Barricades • Trench safety • Public consultation records with nearby residents • Safety signage and project information boards	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor	
Night Works - Public inconvenience due to traffic diversion, disturbance due to excessive noise and access loss, occupational health and safety issues etc: • Prepare a night work protocol and obtain prior approval from PIU, and strictly implement and report on implementation of protocol during the workers; • Contractors should have handheld noise level meter for measurement of noise during night hours • Contractors should have handheld lux meter for the measurement of illumination during night hours • Preferably electrical connection is available for running equipment otherwise soundproof/super silent Diesel Generator set should be available • Sound level should not increase as prescribe by CPCB • Illumination should be as prescribed in protocol	• Night work plan approval from PIU • Noise and illumination monitoring during night works • Public consultations before night works • Workers records • First aid and emergency plans for night works • Nearby sensitive receptors • Site restoration after night works	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*= to be complied when night works will be required. No night work is being conducted. DBO Contractor	

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)													LDN	Responsibility
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR		
- As far as possible ready-mix concrete from batching plant to be used, otherwise the concrete should be prepared away from residential areas and brought to the site - All the noisy activities like hammering, cutting, crushing, running of heavy equipment should be done in daytime and avoided in nighttime - Workers engaged in night works should have adequate rest/sleep in daytime before start of night works - Worker engaged for night works should have previous experience of night works and should be physically fit for such works including clear vision in night. - All the necessary provisions of traffic aids such as traffic signals, road signage, barricades, cautions boards, traffic diversion boards etc. should be available with fluorescent/retro-reflective arrangements - Workers should be trained before start of night works about risks and hazards of night works and their mitigation measures and should be provided all the protective aids (PPEs) including fluorescent/retro-reflective vests - Horns should not be permitted by equipment and vehicles - Workers should not shout and create noise - First aid and emergency vehicles should be available at site - Emergency preparedness plan should be operative during night works - Old persons and pregnant women and women having small kids should not work in night-time - All the vehicles and equipment being used at night works should have adequate type of silencers/enclosures/mufflers to reduce noise - All the vehicles should be checked for working head lamps, tail lamps, inner lights etc. before start of night works - PIU/DSC site engineers and contractor's safety personnel should closely monitor the safety of works continuously and noise and illumination																

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)													LDN	Responsibility	
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR			
levels on hourly basis and maintain photographic and video graphic records as well as register the observations. - Night works should be stopped early in the morning at least one hour before start of pedestrian/traffic movement - After completion of night works all the site should be cleaned and maintained obstruction free for daytime movement of vehicles and pedestrians - Drivers and workers should be alert and responsive during night works - All the wages to workers working in night hours should be as per the applicable labour acts - Avoid any nuisance which may create problems to nearby habitants and work peacefully during night hours - Night works should not be conducted near hospitals and during peak seasons such as peak tourist season, students’ exam times etc.																	
Work in narrow streets - will pose high risk to children and elders in the locality: - Conduct awareness program on safety during the construction work - Undertake the construction work stretch-wise; excavation, pipe laying and trench refilling should be completed on the same day - Provide barricades, and deploy security personnel to ensure safe movement of people and also to prevent unnecessary entry and to avoid accidental fall into open trenches - Trench excavation and pipeline works shall be conducted in a safe manner; if the allowing public movement along the work sites (pedestrians or vehicles as the case may be) is likely to cause safety risks, movement should be blocked temporarily and work shall be conducted; in such areas, conducting night work or working in small stretches to avoid blockage of traffic/movement no more than few hours in due consultation with the local community and ULB shall be planned	- Work plan - Barricades - Trench safety - Public consultation records with nearby residents - Safety signage and project information boards	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor
Construction camps and worker facilities - Temporary air and noise pollution from machine operation, water pollution from storage and use of fuels, oils, solvents, and lubricants. Unsanitary and poor living conditions for workers:	- Approval of site from PIU - Tree cutting for camps	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
• Consult with PIU before locating project offices, sheds, and construction plants; • Minimize removal of vegetation and disallow cutting of trees; • Provide drinking water, water for other uses, and sanitation facilities for employees; • Provided temporary rest and eating area at all work sites • Ensure conditions of livability at work camps are always maintained at the highest standards possible; living quarters and construction camps shall be provided with standard materials (as far as possible to use portable ready to fit-in reusable cabins with proper ventilation); thatched huts, and facilities constructed with materials like GI sheets, tarpaulins, etc., shall not be used as accommodation for workers; accommodation shall meet the IFC standards for workers accommodation which include: provision of safe housing, availability of electricity, plumbing, water and sanitation, adequate fire protection and dormitory/room facilities; accommodation shall be in the range from 10 to 12.5 cubic meters (volume) or 4 to 5.5 square meters (surface) per worker, a minimum ceiling height of 2.10 meters; a reasonable number of workers are allowed to share the same room – (standards range from 2 to 8 workers); workers with accompanying families shall be provided with a proper and safe accommodation • Train employees in the storage and handling of materials which can potentially cause soil contamination; • Recover used oil and lubricants and reuse or remove from the site; • Manage solid waste according to the preference hierarchy: reuse, recycling and disposal to designated areas; • Ensure unauthorized persons specially children are not allowed in any worksite at any given time.	• Facilities for workers e.g. ventilated rooms, first aid, crèche, cooking areas, toilet and washing facility • Solid waste management at camps • Sanitation facilities and dust bins • Signage															
Social/Physical and Cultural Resources - Risk of archaeological chance finds: • Strictly follow the protocol for chance finds in any excavation work; • Create awareness among the workers, supervisors and engineers about the chance finds during excavation work • Stop work immediately to allow further investigation if any finds are suspected; • Inform local Archeological Department if a find is	• Chance finds protocol given in IEE • Training of workers • Consultation with Archaeological department	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO Contractor
		BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)													LDN	Responsibility
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR		
suspected and take any action, they require to ensure its removal or protection in situ																
Monsoon preparedness - Disruption of utilities and water logging in trenches: - As for a possible avoid trench works and excavation works (pipe laying) during monsoon season to avoid any water logging and accident due to it - if open trenches are not avoidable during monsoon, keep ready all the mitigations measures to avoid water logging such as dewatering pumps and sufficient pipes, traffic assistance, barricades etc. - keep emergency response system ready before monsoon/heavy rain fall	- Monsoon preparedness plan - Emergency response plan	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO contractor
Submission of EMP implementation report - Unsatisfactory compliance to EMP: - Appointment of supervisor to ensure EMP implementation - Timely submission of monitoring reports including pictures	- Appointment of EHS officer - Regular submission of reports	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO Contractor
Post-construction clean-up - Damage due to debris, spoils, excess construction materials: - Remove all spoils wreckage, rubbish, or temporary structures (such as buildings, shelters, and latrines) which are no longer required; and - All excavated roads shall be reinstated to original condition. - All disrupted utilities restored - All affected structures rehabilitated/compensated - The area that previously housed the construction camp is to be checked for spills of substances such as oil, paint, etc. and these shall be cleaned up. - All hardened surfaces within the construction camp area shall be ripped, all imported materials removed, and the area shall be top soiled and re-grassed using the guidelines set out in the re-vegetation specification that forms part of this document. - The contractor must arrange the cancellation of all temporary services. - Request PIU to report in writing that worksites and camps have been vacated and restored to pre- project conditions before acceptance of work.	- Site clearance and cleaning - Road and utilities restoration - Restoration of site as previous conditions	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor

C- Compiled, TC – To be complied. BC- Being Complied

Table-9 D: Town Specific EMP Compliance Status of All Sub-projects under RSTDSP

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Compliance Status	Responsibility
Design Phase			
Laxmangarh			
Location impacts of designed components - Nearby community may be affected due to increased pollution during construction and operation: Sites should be selected so that nearby community may have no or minimum impact due to proposed works	- Site locations and lay out plan - Mitigation measures to reduce impacts during construction works	C	DBO Contractor/PIU
Abu Road			
STP - Interference with cultural activities (crematorium near discharge point): Abu Road Locate discharge point of STP-1 at Santpur on the downstream of crematorium, and comfortably away from the river section used for rituals / bathing; consult with local community to finalize location	Location of discharge point	C	DBO Contractor / PMCBC/CMSC/PIU
Intake in Bhaisa Singh Dam (Abu Road) and - Water quality and ecological impacts: - Do not utilize the dead storage for supply; ensure that dead storage is available in the dam all times - Design inlet of intake pipe in the dam with appropriate screen to avoid entry of aquatic organisms into inlet - Select a construction methodology that is least disturbing, and appropriate for the in-situ soil condition, and able to complete the construction work prior to onset of monsoon - Schedule the construction works during low water level period – late winter months to pre monsoon (February – June/July); ensure that works are completed during the same period to prior to onset of monsoon; - Erect temporary barriers to form enclosed construction area with least disturbance - Allow adequate time to settle the distributed solids to prior to pumping out water; only clear/clarified water shall be pumped back into the reservoir; any silt laden water should be pumped to a silt pond	- Intake design - Clearance for abstraction of raw water from dam - Screen at inlet of intake to avoid entry of aquatic organisms - Construction design of intake - Construction schedule - Safety measures at intake works	TC Intake Design Under Review	DBO Contractor / PMCBC/CMSC/PIU

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Compliance Status	Responsibility
• Avoid/minimize use of fuels, chemicals and lubricants; ensure no spillage • Clear the work site after completion at least to pre project conditions, ensure that there are no materials, debris, spills etc., and prior to removal of temporary barriers / coffer dam Implement work site safety at works in water body			
All work sites- Physical cultural resources and chance finds: Ensure that worksites are not located in archeologically sensitive areas; liaise and reconfirm with local Archeological Department during detailed design phase; (ii) Create awareness among the workers, supervisors and engineers about the chance finds during excavation work; (iii) Stop work immediately to allow further investigation if any finds are suspected; (iv) Inform local Archeological Department / Museum office if a find is suspected and take any action, they require to ensure its removal or protection in situ	• Records of trainings • Chance Finds protocol	BC	DBO Contractor / PIU
Critical habitat and protected species • Loss of habitat and breeding trees • Change in food availability – carcasses • Induced impacts of improved water supply leading to increased agriculture and cattle rearing in location which in turns increases local use of chemicals harmful to vultures • Disturbance of vultures at feeding locations during construction phase: Before starting any construction activities, conduct pre-construction survey for presence of this species. • If these species are present, the findings should be recorded and reported. No disturbance or works on the site should start/continue until PIU issues clearance to proceed. • PIU should coordinate with the Forestry Department to coordinate the translocation of the affected species.	• Survey of vultures and other species dependent on the available food in the work areas • Bio-diversity assessment	BC	PIU / CMSC with the assistance of PMCBC Bio-diversity expert and DBO contractor

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Compliance Status	Responsibility
- If these vulture species are present, the design shall ensure that breeding areas are not directly affected by the proposed pipeline routes and permanent infrastructure. Changes in route alignment, timing of works and avoidance of tree felling will reduce risk and impacts - Construction work shall be timed to avoid the breeding season if specimens of these birds are found to be using the AoA during the breeding season <i>Monitoring.</i> If such species are present the project shall take the opportunity to monitor vulture activities within the project area and develop a local community awareness program to support conservation of the species			
Direct harm or killing of individuals during construction earthworks, tracking of vehicles and equipment across burrows. Indirect disturbance of individuals through noise and vibration during pipeline construction works. Induced impacts through improved access along pipeline way leave during and after construction period causing increased opportunity for hunting of species for meat trade: - Before starting any construction activities, conduct survey of species for the EIA process AND prior to construction works, even if not found in initial surveys. - If these species are present, the findings should be recorded and reported. No disturbance or works on the site should start/continue until PIU issues clearance to proceed. - PIU should coordinate with the Forestry Department to coordinate the translocation of the affected species. If such species are present the project shall take the opportunity to monitor vulture activities within the project area and develop a local community awareness program to support conservation of the species	- Survey of vultures and other species dependent on the available food in the work areas - Bio-diversity assessment	BC	PIU / CMSC with the assistance of PMCBC Bio-diversity expert and DBO contractor

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Compliance Status	Responsibility
Sirohi			
Intake in Angore and Kalkaji Dam[#] (Sirohi) - Water quality and ecological impacts: - Design inlet of intake pipe in the dam with appropriate screen to avoid entry of aquatic organisms into inlet - Select a construction methodology that is least disturbing, and appropriate for the in-situ soil condition, and able to complete the construction work prior to onset of monsoon - Schedule the construction works during low water level period – late winter months to pre monsoon (February – June/July); ensure that works are completed during the same period to prior to onset of monsoon; - Erect temporary barriers to form enclosed construction area with least disturbance - Allow adequate time to settle the distributed solids to prior to pumping out water; only clear/clarified water shall be pumped back into the reservoir; any silt laden water should be pumped to a silt pond - Avoid/minimize use of fuels, chemicals and lubricants; ensure no spillage - Clear the work site after completion at least to pre project conditions, ensure that there are no materials, debris, spills etc., and prior to removal of temporary barriers / coffer dam - Implement work site safety at works in water body	- Design of intake - Methodology of intake construction works - Maintenance of construction machineries to prevent any oil spillage - Safety arrangement at intake site - Work schedule	C C BC BC BC	PIU / CMSC with the assistance of PMCBC
Khetri			
All work sites - Physical cultural resources and chance finds: - Ensure that worksites are not located in archeologically sensitive areas; liaise and reconfirm with local Archeological Department during detailed design phase; - Create awareness among the workers, supervisors and engineers about the chance finds during excavation work; - Stop work immediately to allow further investigation if any finds are suspected; - Inform local Archaeological Department / Museum office if a find is suspected and take any action, they require to ensure its removal or protection in situ.	- Location of work sites - Chance finds protocol	BC	DBO Contractor/ PIU/ CMSC/ PMCBC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Compliance Status	Responsibility
Pre –Construction Phase			
Abu Road			
Works close to forest areas - Disturbance / damage to flora, fauna: - Intake work site and associated work facilities shall be properly demarcated and barricaded; - All works, construction material storage/ancillary works shall be confined to the demarcated areas, no movement of workers, vehicles, equipment allowed outside this area - Ensure proper barricading so that no wildlife, even if it is unlikely, accidentally enters work area - No labour camps shall be located near intake or near forests (maintain minimum 2 km buffer) - Limit the work to daylight hours only; no work after sunset - No workers /personnel shall enter forest areas; it is the DBOC responsibility to take necessary precautions & prevent workers removing/damaging trees/vegetation, hunting / harming animals - Create awareness among workers on environment & safety; - No high noisy works shall be conducted	- Survey for bio-diversity near the works of intake, WTP close to forest areas - Locations of work camps - Work schedule	TC (Work of Intake well is yet to start and design of intake well is under review) (will be complied before the start of work and during construction)	DBO contractor/ PIU/Consultants
Preparation of plans and protocols- Various impacts: (i) Prepare traffic management plan (ii) Prepare occupational health and safety plan (iii) Prepare spoils management plan	Site specific EHS plan covering all these plans	C	DBO Contractor
Banswara			
Preparation of plans and protocols- Various impacts: (i) Prepare traffic management plan (ii) Prepare occupational health and safety plan (iii) Prepare spoils management plan	Site specific EHS plan covering all these plans	C	DBO Contractor
Construction Phase			
Ratangarh			
Construction of CRMC at Main Ginani - Safe disposal of Solid waste accumulated at Ginani, workers and public safety (In Ratangarh):	- Work plan - Design approval - Site safety including signage, barricades, project information boards	C	DBO Contractor

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Compliance Status	Responsibility
• Provide dedicated power supply at site, if possible, otherwise DG set to be used during power failure, should be soundproof and having acoustic enclosures with low/permitted air emission standards; • Remove solid waste from site and dispose scientifically • Firm barricades should be provided all-round the site; • No workers camps should be allowed during construction works at site; • Entry should be restricted through provision of gate and guard during SPS operation; and	• Removal of solid waste before start of works • Tree cutting • Noise level monitoring during construction works		
Construction of CRMC at Nagar Palika Office Campus - Disturbance to public and staff visiting/working in Nagar Palika office, traffic disturbance and safety risks (In Ratangarh and Pratapgarh): • No worker camps should be constructed at CRMC site • Proper barricades and signage should be provided at site • No noisy works and transportation of construction materials/plying of heavy vehicles at/near site during office working hours should be ensured • Removal of extraneous materials from site up to end of day should be ensured • provide proper toilets for workers at site • Avoid tree cutting and if tree cutting is necessary compensatory plantation should be done as per RUIDP policy • Provide dedicated power supply at site, if possible, otherwise DG set to be used during power failure, should be soundproof and having acoustic enclosures with low/permitted air emission standards	• Work plan • Design approval • Site safety including signage, barricades, project information boards • Removal of extraneous materials on same day • Tree cutting • Noise level monitoring during construction works	C	DBO Contractor

OVERALL COMPLIANCE WITH EMP IN DIFFERENT PACKAGES**Table-10: Overall Compliance with EMP**

SNo.	Sub-Project Name	Package no.	EMP/ CEMP Part of Contract Documents (Y/N)	CEMP/ EMP Being Implemented (Y/N)	Status of Implementation (Excellent/ Satisfactory/ Partially Satisfactory/ Below Satisfactory)	Action Proposed and Additional Measures Required
1.	Ratangarh Sewerage Works	RSTDIP/RTG-FTP-LXG/01	Yes	Yes	Satisfactory	No any
2.	Fatehpur Sewerage Works		Yes	Yes	Satisfactory	No any
3.	Laxmangarh Water Supply Works		Yes	Yes	Satisfactory	No any
4.	Sardarshahar Water Supply and Sewerage Works	RSTDIP/SRD/01	Yes	Yes	Satisfactory	No any
5.	Sirohi Water Supply and Sewerage Works	RSTDIP/SHR-ABR/01	Yes	Yes	Satisfactory	No any
6.	Abu Road Water Supply and Sewerage Works		Yes	Yes	Partially Satisfactory	Orientation and training of workers to be done
7.	Pratapgarh Sewerage Works	RSTDIP/PRT/01	Yes	Yes	Satisfactory	No any
8.	Banswara Water Supply and Sewerage Works	RSTDIP/BNS/04	Yes	Yes	Satisfactory	No any
9	Khetri Water Supply and Sewerage Works	RSTDIP/KTR/03	Yes	Yes	Satisfactory	No any
10	Mandawa Water Supply and Sewerage Works	RSTDIP/MDW/03	Yes	Yes	Satisfactory	No any
11	Kuchaman Water Supply and Sewerage Works	RSTDIP/KMN/02	Yes	Yes	Satisfactory	No any
12	Ladnu Sewerage Works	RSTDIP/LDN-DID-MKN/01	Yes	Yes	Satisfactory	No any
13	Didwana Sewerage Works		Yes	Yes	Satisfactory	No any
14	Makrana Sewerage Works		Yes	Yes	Satisfactory	No any

Table 11: Package-wise IEE Status

Package Number	Components	Design Status (Preliminary Design Stage/Detailed Design Completed)	Final IEE based on Detailed Design				Site-specific EMP (or Construction EMP) approved by Project Manager? (Yes/No)	Remarks
			Not yet due (detailed design not yet completed)	Submitted to ADB (Provide Date of Submission)	Disclosed on project website (Provide Link)	Final IEE provided to Contractor/s (Yes/No)		
RSTDIP/RTG-FTP-LXG/01	Ratangarh Sewerage Works	Detail Design under process	✓		✓	✓	Yes	Third Updated IEE Approved by ADB in July 2023 and uploaded on ADB website link shared.
	Fatehpur Sewerage Works	Detail Design under process	✓		✓	✓	Yes	Third Updated IEE Approved by ADB in July 2023 and uploaded on ADB website link shared.
	Laxmangarh Water Supply Works	Detail Design under process	✓		✓	✓	Yes	Third Updated IEE Approved by ADB in July 2023 and uploaded on ADB website link shared.
RSTDIP/SRD/01	Sardarshahar Water Supply and Sewerage Works	Detail Design under process	✓		✓	✓	Yes	Second Updated IEE Approved by ADB in July 2023 and uploaded on ADB website link shared.
RSTDIP/SHR-ABR/01	Sirohi Water Supply and Sewerage Works	Detail Design under process			✓	✓	Yes	Third Updated IEE Approved by ADB in July 2023 and uploaded on ADB website link shared.
	Abu Road Water Supply and Sewerage Works	Detail Design under process	✓		✓		Yes	Third Updated IEE Approved by ADB in July 2023 and uploaded on ADB website link shared.
RSTDIP/PRT/01	Pratapgarh Sewerage Works	Detail Design under process			✓	✓	Yes	Second Updated IEE Approved by ADB in July 2023 and uploaded on ADB website link shared.
RSTDIP/BNS/04	Banswara Water Supply and Sewerage Works	Detail Design under process			✓	✓	Yes	Updated IEE Approved by ADB in July 2023 and uploaded on ADB website link shared.

Package Number	Components	Design Status (Preliminary Design Stage/Detailed Design Completed)	Final IEE based on Detailed Design				Site-specific EMP (or Construction EMP) approved by Project Manager? (Yes/No)	Remarks
			Not yet due (detailed design not yet completed)	Submitted to ADB (Provide Date of Submission)	Disclosed on project website (Provide Link)	Final IEE provided to Contractor/s (Yes/No)		
RSTDIP/KTR/03	Khetri Water Supply and Sewerage Works	Detail Design under process			✓	✓	Yes	Updated IEE Approved by ADB in July 2023 and uploaded on ADB website link shared.
RSTDIP/MDW/03	Mandawa Water Supply and Sewerage Works	Detail Design under process			✓	✓	Yes	Updated IEE Approved by ADB in July 2023 and uploaded on ADB website link shared.
RSTDIP/KMN/02	Kuchaman Sewerage Works	Detail Design under process	✓		✓	✓	Yes	Second Updated IEE Approved by ADB in July 2023 and uploaded on ADB website link shared.
RSTDIP/LDN-DID-MKN/01	Ladnu Sewerage Works	Preliminary Design Stage			✓	✓	Yes	Updated IEE Approved by ADB in July 2023 and uploaded on ADB website link shared.
RSTDIP/LDN-DID-MKN/01	Didwana Sewerage Works	Detail Design under process			✓	✓	Yes	Second updated IEE Approved by ADB in July 2023 and uploaded on ADB website link shared.
RSTDIP/LDN-DID-MKN/01	Makrana Sewerage Works	Detail Design under process			✓	✓	Yes	Second updated IEE Approved by ADB in July 2023 and uploaded on ADB website link shared.

Note: Draft IEEs are disclosed in RUIDP website- <https://lsq.urban.rajasthan.gov.in/content/raj/udh/ruidp/en/safeguard-policies/initial-environmental-examination--iee-reports/initial-environmental-examination--iees--reports.html> updated IEEs also has been disclosed at this link after approval from ADB

4. APPROACH AND METHODOLOGY FOR ENVIRONMENTAL MONITORING OF THE PROJECT

14. **Institutional Arrangement for Environmental Mmanagement:** For the measurement of effectiveness of the environmental performance of contractor, regular environmental monitoring is required. In RSTDSP there is well established organizational structure for environmental monitoring. Project Officer (Environment) with support of Assistant Project Officer (Environment) in PMU is overall looking environmental issues in the project. Safeguard and Safety Officers (SSO) deputed in each PIU are responsible for day to day monitoring of environmental performance of project contractor. In PMCBC; Environment Safeguard Specialist (ESS) is deputed with environmental safeguard support staff who are responsible for review the updated IEE/EMP and monitoring of environmental safeguard compliances during construction phase. ESS will support PO (Environment) at PMU and SSOs at PIUs in implementation, management and monitoring of all environmental safeguards related activities. The town level consultant team (Construction Management and Supervision Consultants-CMSCs) includes Environmental Safeguard Professional and Environmental Safeguard Support personals, who are responsible for updating the IEE/EMP, monitoring of implementation measures on project sites and reporting to PIU/PMU. CMSCs also include Assistant Construction Manager (ACM) at each PIU responsible for the construction supervision including environmental safeguards at subproject town level. Community Action and Participation Consultants (CAPC) will support PIUs in construction facilitation, community consultation/participation, grievance registration and redress during the construction. The contractors have appointed an Environment, Health and Safety (EHS) Officer in each town who are responsible on a day-to-day basis for (i) ensuring implementation of EMP, (ii) coordinating with the ACM and environment safeguards specialists (all levels PO, SSO & ESS); (iii) community liaison, consultations with interested/affected parties, and grievance redress; and (iv) reporting.

15. **Site visits.** Site visit is carried out by ESS, PMCBC and Environment Safeguard Professionals of CMSCs and/or their safeguard support staff on regular basis for the monitoring of contractor's performance towards social, environment, health and safety issues as described in EMP. During site visit the safeguard personnel visit all the working sites along with town consultants engineers/PIU engineers, contractor's EHS supervisor and site engineers and verify the compliances towards environmental safeguard outlined in EMP. During site visit safeguard team also interacts with labors and nearby habitants and shopkeepers to find out whether they are facing any difficulties due to construction works and discusses these issues with PIU and contractor for remedial action to be taken. During site

visit if any issue is identified which is not addressed in IEE/EMP it is discussed with PIU/PMU and further would be updated in IEE with mitigation measures for it.

16. **Document Checks.** At project offices (PU/PIUs) and during visit to project towns various documents related to environmental safeguard compliances are regularly checked by ESS. Main documents checked are contractors EHS plan, PUC of contractor's vehicles, agreements with other parties, environmental monitoring (air, water, noise, soil etc.) reports, training records, NOCs, consents, permits from other departments, work plan and site plans, grievances register, first aid register, equipment fitness reports etc.

17. **Consultations.** Consultation is a process in the project cycle to ensure the involvement of the public as stakeholders in project execution through consultation and focus group discussion meetings. Stakeholders' participation and consultation have been taken up as a continual course of action, which promote public understanding and help to minimize grievances due to ongoing work in the project. Consultation during project implementation is an integral part of the environmental management process, which not only minimizes the risks of public agitation/resistance against the project but also eradicate the gap between the community and the project management authorities, which leads to timely completion of the project and making the project people friendly.

18. Keeping in mind the objective of minimizing adverse impact and the need of the stakeholders' participation for the smooth implementation of the project, consultation with the members of different sections of society, the affected people, identified vulnerable groups including women headed households, slum dwellers, vendors, vegetable seller, tourist and students of the project area were carried out during planning phase. As per ADB policy consultations will be continued throughout the project implementation period. Consultations are essential part of site visit of safeguard team to project areas.

19. The main objectives of undertaking these consultations are:

- To seek inputs from the stakeholders on the project execution and understand the difficulties/priorities / concerns of the communities.
- To make affected persons aware of the project impacts.
- Dissemination of information to build awareness among DPs and other stakeholders and inform them about the nature of inconvenience which may be anticipated during implementation of the project.
- Discuss about the training requirements to enhance their skills & restore the livelihood.

20. **Monitoring of ambient environmental conditions.** Environmental Monitoring for ambient air, noise, water and soil is being carried out quarterly in all project towns. The details of environmental monitoring are described in chapter 6.

5. NATIONAL STANDARDS

Table -12: National Ambient Air Quality Standards

SI No:	Pollutants	Time weighted average	Concentration in ambient air		Method of measurement	IFC Standards (µg/m ³)
			Industrial, Residential, Rural & Other Areas	Ecologically Sensitive Areas		
1	Sulphur Dioxide (SO ₂) µg/m ³	Annual 24 hours	50 80	20 80	Improved West and Geake-Ultraviolet fluorescence	50 (Annual) 20 (24-hr) 500 (10-min)
2	Nitrogen Dioxide (NO ₂) µg/m ³	Annual 24 hours	40 80	30 80	Modified Jacob & Hochheiser (Na-Arsenite) Chemiluminescence	40 (Annual) 80 (24-hr) 200 (1-hr)
3	Particulate Matter (Size less than 10 µm) or PM10 µg/m ³	Annual 24 hours	60 100	60 100	Gravimetric -TOEM -Beta attenuation	20 (Annual) 50 (24-hr)
4	Particulate Matter (Size less than 2.5 µm) or PM2.5 µg/m ³	Annual 24 hours	40 60	40 60	Gravimetric -TOEM -Beta attenuation	10 (Annual) 25 (24-hr)
5	Carbon Monoxide (CO) µg /m ³	8 hours 1 hours	02 04	02 04	Non Dispersive Infra Red (NDIR) Spectroscopy	2,000 (8-hr) 4,000 (1-hr) 100,000 (15-min)

Table -13: National and ADB SPS's Noise Quality Standards

As per the Noise Pollution (Regulation and Control) Rules, 2000

Area code	Category of area/zone	Noise Limit in dB (A)		ADB SPS Noise Limit dB (A)	
		Day time	Night time	Day time	Night time
a	Industrial area	75	70	70	70
b	Commercial area	65	55	70	70
c	Residential area	55	45	55	45
d	Silence zone	50	40	-	-
e	Institutional/Educational	-	-	55	45

Table -14: Drinking Water Quality Standards (As per IS 10500:2012)

Organoleptic and Physical Parameters

(Foreword and Clause 4)

Sl No.	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	Method of Test, Ref to Part of IS 3025	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
i)	Colour, Hazen units, <i>Max</i>	5	15	Part 4	Extended to 15 only, if toxic substances are not suspected in absence of alternate sources
ii)	Odour	Agreeable	Agreeable	Part 5	a)Test cold and when heated b)Test at several dilutions
iii)	pH value	6.5-8.5	No relaxation	Part 11	—
iv)	Taste	Agreeable	Agreeable	Parts 7 and 8	Test to be conducted only after safety has been established
v)	Turbidity, NTU, <i>Max</i>	1	5	Part 10	—
vi)	Total dissolved solids, mg/l, <i>Max</i>	500	2 000	Part 16	—

NOTE — It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible limit in the absence of alternate source' in col 4, above which the sources will have to be rejected.

Table -15: General Parameters Concerning Substances Undesirable in Excessive Amounts

(Foreword and Clause 4)

Sl No.	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	Method of Test, Ref to	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
i)	Aluminium (as Al), mg/l, <i>Max</i>	0.03	0.2	IS 3025 (Part 55)	—
ii)	Ammonia (as total ammonia-N), mg/l, <i>Max</i>	0.5	No relaxation	IS 3025 (Part 34)	—
iii)	Anionic detergents (as MBAS) mg/l, <i>Max</i>	0.2	1.0	Annex K of IS 13428	—
iv)	Barium (as Ba), mg/l, <i>Max</i>	0.7	No relaxation	Annex F of IS 13428* or IS 15302	—
v)	Boron (as B), mg/l, <i>Max</i>	0.5	1.0	IS 3025 (Part 57)	—
vi)	Calcium (as Ca), mg/l, <i>Max</i>	75	200	IS 3025 (Part 40)	—
vii)	Chloramines (as Cy, mg/l, <i>Max</i>	4.0	No relaxation	IS 3025 (Part 26)* or APHA 4500-Cl G	—
viii)	Chloride (as Cl), mg/l, <i>Max</i>	250	1 000	IS 3025 (Part 32)	—
ix)	Copper (as Cu), mg/l, <i>Max</i>	0.05	1.5	IS 3025 (Part 42)	—
x)	Fluoride (as F) mg/l, <i>Max</i>	1.0	1.5	IS 3025 (Part 60)	—
xi)	Free residual chlorine, mg/l, <i>Min</i>	0.2	1	IS 3025 (Part 26)	To be applicable only when water is chlorinated. Tested at consumer end. When protection against viral infection is required, it should be

Sl No.	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	Method of Test, Ref to	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
					minimum 0.5 mg/l
xii)	Iron (as Fe), mg/l, <i>Max</i>	0.3	No relaxation	IS 3025 (Part 53)	Total concentration of manganese (as Mn) and iron (as Fe) shall not exceed 0.3 mg/l
xiii)	Magnesium (as Mg), mg/l, <i>Max</i>	30	100	IS 3025 (Part 46)	—
xiv)	Manganese (as Mn), mg/l, <i>Max</i>	0.1	0.3	IS 3025 (Part 59)	Total concentration of manganese (as Mn) and iron (as Fe) shall not exceed 0.3 mg/l
xv)	Mineral oil, mg/l, <i>Max</i>	0.5	No relaxation	Clause 6 of IS 3025(Part 39) Infrared partition method	—
xvi)	Nitrate (as NOA mg/l, <i>Max</i>	45	No relaxation	IS 3025 (Part 34)	—
xvii)	Phenolic compounds (as C ₆ H ₅ OH), mg/l, <i>Max</i>	0.001	0.002	IS 3025 (Part 43)	—
xviii)	Selenium (as Se), mg/l, <i>Max</i>	0.01	No relaxation	IS 3025 (Part 56) or IS 15303*	—
xix)	Silver (as Ag), mg/l, <i>Max</i>	0.1	No relaxation	Annex J of IS 13428	—
xx)	Sulphate (as SO ₄) mg/l, <i>Max</i>	200	400	IS 3025 (Part 24)	May be extended to 400 provided that Magnesium does not exceed 30
xxi)	Sulphide (as H ₂ S), mg/l, <i>Max</i>	0.05	No relaxation	IS 3025 (Part 29)	—
xxii)	Total alkalinity as calcium carbonate, mg/l, <i>Max</i>	200	600	IS 3025 (Part 23)	—
xxiii)	Total hardness (as CaCO ₃), mg/l, <i>Max</i>	200	600	IS 3025 (Part 21)	—
xxiv)	Zinc (as Zn), mg/l, <i>Max</i>	5	15	IS 3025 (Part 49)	—

NOTES

- In case of dispute, the method indicated by '*' shall be the referee method.
- It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible limit in the absence of alternate source' in col 4, above which the sources will have to be rejected

Table -16: Surface Water Quality Standards for class B (bathing)
(As per IS 2296:1982)

S.No.	Characteristic	Tolerance Limit
1.	pH Value	6.5 to 8.5
2.	Dissolved Oxygen, mg/l/ Max	5.0
3.	Biochemical Oxygen Demand	3.0
4.	Total Coliform Organisms, MPN/100 ml, Max	500
5.	Fluorides (as F) <mg/l, Max	1.5
6.	Colour, Hazen Units, Max	300
7.	Cyanides (as CN), mg/l, Max	0.05
8.	Arsenic (as As), mg/l, Max	0.2
9.	Phenolic Compounds (As C ₆ H ₅ OH) mg/l, Max	0.005
10.	Chromium (as Cr ⁶⁺), mg/l, Max	1.0
11.	Anionic detergents (as MBAS), mg/l, Max	1.0
12.	Alpha emitters, mc/ml, Max	10 ⁻⁸

Table-17: Discharge Standards to be achieved as per NGT order dtd. 30.04.2019

Sl. No.	Parameters	Parameters Limit
1	pH	5.5-9.0
2	BOD (mg/l)	Not more than 10 mg/l
3	COD (mg/l)	Not more than 50 mg/l
4	TSS (mg/l)	Not more than 20 mg/l
5	P-Total (mg/l)- for discharge into ponds/lakes	Not more than 1.0 mg/l
6	N-Total (mg/l)	Not more than 10 mg/l
7	Fecal Coliform (MPN/100ml)	Desirable- Less than 100 MPN/100ml Permissible- 230 MPN/100ml

Note: The discharge standards as directed by NGT to be achieved are already being followed in RSTDSP projects.

6. MONITORING OF ENVIRONMENTAL PARAMETERS IN PROJECT LOCATIONS (AMBIENT AIR, WATER QUALITY, SOIL QUALITY AND NOISE LEVELS)

21. Before start of project activities baseline monitoring is done in each project towns at prominent locations identified in IEE to establish the baseline data of ambient conditions of environment in the project areas. During construction phase monitoring for ambient environmental conditions (air, water, noise and soil) is conducted on quarterly duration on the locations identified in IEE/EMP. During site visit if any other requirement for environmental monitoring is found, which is not identified in IEE/EMP, contractor is required to do monitoring after approval of CMSC/PIU. Monitoring results are compared from baseline data and/or national standards and if unacceptable deviation is found, mitigation measures are prepared by ESS of CMSC and conveyed to contractor for compliance. Type of environmental monitoring with parameters and location is given in following **Table 18** and method of monitoring and equipment used is given in **Table 19**.

Table-18: Types, parameters and locations of environmental monitoring

S.No.	Type of monitoring	Parameters	Locations
1.	Ambient Air Quality	Particulate Matters PM ₁₀ , SO _x , NO _x , Carbon Monoxide (CO), Particulate Matter PM _{2.5}	WTP, STP, SPS, Pipe laying site specially near sensitive locations
2.	Ambient Noise monitoring	L _{day} and L _{night} (in Leq dBA) 24 hrs basis	WTP, STP, SPS, Pipe laying site specially near sensitive locations
3.	Surface Water quality	pH, Turbidity, Total Hardness, DO, BOD, COD, Chloride, Hg, Iron, TDS, TSS, Calcium, Zn, Cr ⁺⁶ , Magnesium, Copper, Manganese, Sulphate, Cyanide, Nitrate, Sodium, Potassium, Fluoride, Cadmium, Arsenic, Lead, Boron, Selenium, Aluminium, Total residual Chlorine	Surface water resources (river, pond, lake etc.) if within 500 mtrs of project affected area, intake source
4.	Ground Water quality	pH, TDS, Total Hardness, Zn, Chloride, Iron, Copper, DO, Manganese, Sulphate, Nitrate, Fluoride, Hg, Cadmium, Cr ⁺⁶ , Arsenic, Lead, Total Alkalinity, Phosphate, Phenolic compound	WTP, STP, SPS and any central location in the town
5.	Soil Quality	pH, Elect. Conductivity (at 25°C), Moisture (at 105°C), Texture (silt, clay, sand), Calcium (as CaO), Magnesium (as Mg), Permeability, Nitrogen (as N), Sodium (as Na), Phosphate (as PO ₄), Potassium (as K), Organic Matter, oil and grease	WTP, STP, SPS

Table 19: Method of monitoring and equipment used

S.No.	Parameter monitoring	of	Equipment used	Methodology	Protocol of test
Air Quality					
1.	PM ₁₀		Fine Particulate Sampler (e.g. Envirotech APM 550)	Collection of particulate matter on filter papers and gravimetric analysis	IS 5182 (part 23): 2006
2	PM _{2.5}		PM _{2.5} sampler (e.g. Envirotech APM 154)	Collection of particulate matter on filter papers and gravimetric analysis	As per CPCB guidelines
3	SO _x		Respirable Dust Sampler with gaseous attachment (e.g. Envirotech APM 460BL), UV/VIS spectrophotometer	Absorption of a gases in liquid absorbent and analysis by improved West and Geike	IS 5182 (part 2): 2001
4	NO _x		Respirable Dust Sampler with gaseous attachment (e.g. Envirotech APM 460BL), UV/VIS spectrophotometer	Absorption of a gases in liquid absorbent and analysis by Modified Jacob and Hochheiser (Na-arsenite)	IS 5182 (part VI):2006
5	CO		Single Gas Analyser (CO meter)	Detection method	IS 5182 (part 10): 1999
Noise Quality					
6	Noise Level (Day time and night time)		Noise level meter (Envirotech SLM 100)	Instrumental	IS 9989
Water Quality					
7	pH		pH meter	Instrumental	IS:3025 (part 11): 2002
8	Turbidity		Manual Grab Sampling in Sterilized Sample collection bottle and lab analysis	Gravimetric Analysis	IS:3025 (part 10): 1984
9	Total Suspended Solids (TSS)		-do-	Gravimetric Analysis	IS:3025 (part 15): 1984
10	Total Dissolved Solids (TDS)		-do-	Gravimetric Analysis	IS:3025 (part 16): 2006
11	Total Hardness as CaCO ₃		-do-	Qualitative Analysis	IS:3025 (part 21): 2009
12	Chloride as Cl		-do-	Qualitative Analysis	IS:3025 (part 32): 2003
13	Sulphate as SO ₄		-do-	Qualitative Analysis	IS:3025 (part 24): 2003
14	Iron as Fe		-do-	Qualitative Analysis	IS:3025 (part 53): 2003
15	Fluoride as F		-do-	Qualitative Analysis	IS:3025 (part 60): 2008
16	Zinc as Zn		-do-	Qualitative Analysis	IS:3025 (part 49): 1994
17	Copper as Cu		-do-	Qualitative Analysis	IS:3025 (part 42): 1992
18	Manganese as Mn		-do-	Qualitative Analysis	IS:3025 (part 59): 2006
19	Mercury as Hg		-do-	Qualitative Analysis	IS:3025 (part 48): 1994
20	Cadmium		-do-	Qualitative Analysis	IS:3025 (part 41): 1992
21	Chromium as Cr		-do-	Qualitative Analysis	IS:3025 (part 52): 2003
22	Total Arsenic as As		-do-	Qualitative Analysis	IS:3025 (part 37): 1988
23	Lead as Pb		-do-	Qualitative Analysis	IS:3025 (part 47): 1994
24	Dissolved Oxygen (DO)		-do-	Qualitative Analysis	IS:3025 (part 38): 1989
25	Chlorine (residual free)		-do-	Qualitative Analysis	APHA 22 nd edition-4500Cl B
26	Calcium as Ca		-do-	Qualitative Analysis	IS:3025 (part 40): 2003
27	Magnesium as Mg		-do-	Qualitative Analysis	APHA 22 nd edition

S.No.	Parameter monitoring of	Equipment used	Methodology	Protocol of test
28	Total Alkanity as CaCO ₃	-do-	Qualitative Analysis	IS:3025 (part 23): 2003
29	Colour	-	Physical observation	APHA 22 nd edition
30	Odour	-	Physical observation	APHA 22 nd edition
31	Taste	-	Physical observation	APHA 22 nd edition
32	Phenolic Compound	-do-	Qualitative Analysis	IS:3025 (part 43): 1992
33	Total Residual Chlorine	-do-	Qualitative Analysis	IS:3025 (part 26): 1986

7. ENVIRONMENTAL MONITORING DURING REPORTING PERIOD

22. Baseline environmental monitoring for ambient air, noise, water and soil has been conducted in all towns. Results show that ambient air quality in these towns are well within the prescribed standards, whereas noise quality is slightly higher in most of project towns due to prevailing ambient conditions such as noise from vehicles and other activities near the monitoring locations. During reporting period environmental monitoring was conducted in all towns whereas Construction phase environmental monitoring (quarterly) was conducted in 13 towns (Banswara, Kuchaman, Didwana, Ladnu, Makrana, Khetri, Abu Road, Pratapgarh, Sardarshahar Mandawa, Sirohi, Fatehpur and Ratangarh. Results of environmental monitoring (baseline and periodical) during reporting period is given in Appendix 11. Summary of environmental monitoring conducted during reporting period is given below in Table -20.

Table 20 A: Summary of Environmental Monitoring conducted under RSTDSP during October 2023 to March 2024

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
1	Khetri	Construction	- Air Quality, - Noise Quality, Ground - Water Quality, - Soil Quality	20.12.2023 to 22.12.2023	- STP Construction Site - Construction Site JEn Campus - Hanuman Ghadi Market Area - Construction Site Near Polo Ground - Near Kabila Mohalla	- Air quality monitoring conducted at 5 locations and all results are within national standards for all parameters in all 5 locations, whereas PM₁₀ (ranges from 88.8 to 93.3 µg/m³ and PM_{2.5} (ranges from 41.4 to 44.3 µg/m³) values in all 5 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 5 locations. Day time results ranges from 56.0 to 57.5 dBA and night time results ranges from 45.4 to 48.3 dBA. Results show that during day & night time noise quality results were slightly higher as per the national standards as well as ADB SPS recommended standards for residential areas at all 5 locations.
				15.03.2024 to 17.03.2024	- STP Construction Site - Construction Site JEn Campus - Construction Site AEn Campus - Construction Site Nagar Palika - HP Gas Agency Near Cinema Road	- Air quality monitoring conducted at 5 locations and all results are within national standards for all parameters in all 5 locations, whereas PM₁₀ (ranges from 86.5 to 91.3 µg/m³ and PM 2.5 (ranges from 38.5 to 44.6 µg/m³) values in all 5 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 5 locations. Day time results ranges from 54.3 to 57.7 dBA and night time results ranges from 43.5 to 48.3 dBA. Results

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						show that during day & night time noise quality results were slightly higher as per the national standards as well as ADB SPS recommended standards for residential areas except 1 location.
2	Pratapgarh	Construction	- Air Quality, - Noise Quality, Ground - Water Quality, - Soil Quality	31.10.2023 to 01.11.2023	- Forest Colony - Gupt Ganga Hanuman Mandir - Zila Prishad Road, S.P. Slide - Velocity colony	- Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM₁₀ (ranges from 72.2 to 79.2 µg/m³ and PM_{2.5} (ranges from 29.5 to 34.2 µg/m³) values in all 3 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 4 locations. Day time results ranges from 57.2 to 61.5 dBA and night time results ranges from 42.0 to 46.3 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 4 locations whereas noise quality results during night time were within prescribed limits as per both standards at 3 locations.
				16.03.2024	- Near STP Main gate - Near Sewage Pump House Station - Near CRMC 1	Air quality monitoring conducted at 3 locations and all results are within national standards for all parameters in all 3 locations, whereas PM₁₀ (ranges from 72.2 to 82.6 µg/m³ and PM_{2.5} (ranges from 29.5 to 39.7 µg/m³) values in all 3 locations are more than applicable ADB

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						SPS limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 3 locations. Day time results ranges from 59.4 to 62.0 dBA and night time results ranges from 42.6 to 46.1 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 3 all locations whereas noise quality results during night time were within prescribed limits as per both standards at 1 location.
3	Abu Road	Construction	- Air Quality, - Noise Quality, Ground - Water Quality, - Soil Quality	04.11.2023 to 06.11.2023	- Manpur Workmen Camp - Manpur STP - Near STP & WTP Santpur - Luniapura CWR	- Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM₁₀ (ranges from 67.6 to 70.5 µg/m³ and PM_{2.5} (ranges from 29.4 to 31.5 µg/m³) values in all 4 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 4 locations. Day time results ranges from 52.8 to 58.4 dBA and night time results ranges from 41.6 to 46.1 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 3 locations whereas noise quality results during night time were

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						within prescribed limits as per both standards at all 3 locations.
				12.02.2024 to 13.02.2024	• CWR Market Area • Manpur Workmen Camp • Near STP & WTP Manpur • CWR Luniapura	• Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM₁₀ (ranges from 63.9 to 68.8 µg/m³ and PM 2.5 (ranges from 28.4 to 30.8 µg/m³) values in all 4 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. • Noise quality monitoring conducted at 4 locations. Day time results ranges from 54.6 to 60.4 dBA and night time results ranges from 42.9 to 47.3 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 3 locations whereas noise quality results during night time were within prescribed limits as per both standards at 3 locations.
4	Kuchaman	Construction	• Air Quality, • Noise Quality, • Ground • Water Quality, • Soil Quality	12.10.2023 to 16.10.2023	• STP Near Bus Stand • L&T Labor Colony • 600 KL, Near Shiv Mandir • RUIDP Office, Near SK Academy • SPS Site 1, Near Khan Mohalla • Networking Site Regar Mohalla	• Air quality monitoring conducted at 7 locations and all results are within national standards for all parameters in all 7 locations, whereas PM₁₀ (ranges from 59.0 to 84.0 µg/m³ and PM_{2.5} (ranges from 32.0 to 50.0 µg/m³) values in all 7 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards.

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
					Networking Site Khariya Road	Noise quality monitoring conducted at 7 locations. Day time results ranges from 50.7 to 62.3 dBA and night time results ranges from 37.6 to 43.1 dBA Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at 2 locations whereas noise quality results during night time were within prescribed limits as per both standards at all 7 locations.
				28.03.2024 to 29.03.2024	- STP Near Bus Stand - L&T Labor Colony 600 KL, Near Shiv Mandir - RUIDP Office, Near SK Academy - SPS Site 1, Near Khan Mohalla - Networking Site Regar Mohalla - Networking Site Khariya Road	- Air quality monitoring conducted at 7 locations and all results are within national standards for all parameters in all 7 locations, whereas PM10 (ranges from 61.0 to 79.0 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 35.0 to 50.0 $\mu\text{g}/\text{m}^3$) values in all 7 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 7 locations. Day time results ranges from 51.6 to 58.5 dBA and night time results ranges from 37.5 to 41.7 dBA Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at 4 locations whereas noise quality results during night time were within prescribed limits as per both standards at all 7 locations.

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
5	Sirohi	Construction	- Air Quality, - Noise Quality, Ground - Water Quality, - Soil Quality	29.09.2023 to 01.10.2023	- Angore WTP - Near Workmen Camp/STP 5.0 MLD - Kalika Ji Pump House - CRMC Building	- Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM₁₀ (ranges from 60.3 to 76.3 µg/m³ and PM_{2.5} (ranges from 24.9 to 34.8 µg/m³) values in all 3 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 4 locations. Day time results ranges from 53.8 to 62.4 dBA and night time results ranges from 41.2 to 47.5 dBA. Results show that during day & night time noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 3 locations.
				13.02.2024 to 14.02.2024	- Angore WTP - Near Workmen Camp/STP 5.0 MLD 1.7 MLD STP - CRMC Building	- Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM₁₀ (ranges from 61.10 to 72.4 µg/m³ and PM 2.5 (ranges from 27.6 to 31.5 µg/m³) values in all 4 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 4 locations. Day time results ranges from 54.2 to 60.9 dBA and night time results ranges from 42.1 to 48.1 dBA. Results show that during day & night time, noise quality results were slightly higher than

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						the national standards as well as ADB SPS recommended standards for residential areas at all 3 locations.
6	Mandawa	Construction	• Air Quality, • Noise Quality, Ground • Water Quality, • Soil Quality	13.12.2023 to 15.12.2023	• SPS 1 (PHED Campus) Beside SPS Site • STP Site 01 • CWR Site 01 • Pipe Laying Site (Ward No. 16)	• Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM₁₀ (ranges from 73.3 to 83.3 µg/m³ and PM_{2.5} (ranges from 32.5 to 39.0 µg/m³) values in all 4 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. • Noise quality monitoring conducted at 4 locations. Day time results ranges from 51.6 to 58.3 dBA and night time results ranges from 41.5 to 45.2 dBA. Results show that during day and night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at 2 locations whereas noise quality results for other 2 locations were within prescribed limits as per both standards.
				20.03.2024 to 21.03.2024	• SPS Site • CWR PHED Site • STP Site • Pipe Laying Site	• Air quality monitoring conducted at 4 locations and all results are within national standards as well as applicable ADB SPS limits for all parameters in all 4 locations, whereas PM₁₀ (ranges from 65.6 to 69.4 µg/m³ and PM_{2.5} (ranges from 22.4 to 24.3 µg/m³). All other parameters are within prescribed limits as per both standards.

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						Noise quality monitoring conducted at 4 locations. Day time results ranges from 59.6 to 64.8 dBA and night time results ranges from 42.1 to 50.4 dBA. Results show that during day time noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 4 locations whereas noise quality results during night time for 1 location were within prescribed limits as per both standards.
7	Makrana	Construction	- Air Quality, - Noise Quality, - Ground - Water Quality, - Soil Quality	30.12.2023 to 31.12.2023	- STP – 1 (7.7MLD- at Calanada) - SPS – 1 (2.3MLD at Jhalatalav Zone 5) - SPS – 2 (2.1MLD at Matavar Zone 8) - Pipe Laying Site Near Sensitive area – 1	- Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM10 (ranges from 65.5 to 88.4 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 37.5 to 51.2 $\mu\text{g}/\text{m}^3$) values in all 4 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 4 locations. Day time results ranges from 53.7 to 56.7 dBA and night time results ranges from 37.7 to 40.8 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at 2 locations whereas noise quality results during night time were within prescribed limits as per both standards at all 4 locations.

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
				29.03.2024 to 30.03.2024	• STP 7.7 MLD Site (Calananda) • SPS 2.1 MLD Site (Matavar Zone 8) • SPS 2.3 MLD (Jhalatalav Zone 5) • Pipe Laying Site Near Sensitive Area • (L&T Workmen Camp & Store nearby Gurjar Colony)	• Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM₁₀ (ranges from 70.5 to 78.1 µg/m³ and PM 2.5 (ranges from 31.6 to 40.6 µg/m³) values in all 4 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. • Noise quality monitoring conducted at 4 locations. Day time results ranges from 53.4 to 63.7 dBA and night time results ranges from 41.9 to 51.3 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at 2 locations.
8	Sardarshahar	Construction	• Air Quality, • Noise Quality, Ground • Water Quality, • Soil Quality	13.10.2023 to 15.10.2023	• STP – 1 (2.3 MLD) South Campus • STP – 2 (3.4 MLD) North Campus • PHED Campus (CWR 2400 KL) • Pipe Laying Zone (DMA 4AKuber Cottage) • 1.6 MLD STP (Pre Construction Activity) • SPS 2.3 MLD	• Air quality monitoring conducted at 6 locations and all results are within national standards for all parameters in all 6 locations, whereas PM₁₀ (ranges from 68.3 to 75.3 µg/m³ and PM_{2.5} (ranges from 28.7 to 32.3 µg/m³) values in all 6 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. • Noise quality monitoring conducted at 6 locations. Day time results ranges from 51.5 to 55.6 dBA and night time results ranges from 41.8 to 44.3 dBA. Results show that during day and night time, noise quality results were within prescribed

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						limits as per the national standards as well as ADB SPS recommended standards.
				16.01.2024 to 17.01.2024	• STP 1.6 MLD • STP 2.3 MLD South Campus • STP 3.4 MLD North Campus • PHED Campus-CWR 2400 KL • DMA 7A HDPE Pipe Laying • Pipe laying Zone 2 HSE work	• Air quality monitoring conducted at 6 locations and all results are within national standards for all parameters in all 6 locations, whereas PM10 (ranges from 66.3 to 69.5 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 26.4 to 30.3 $\mu\text{g}/\text{m}^3$) values in all 6 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. • Noise quality monitoring conducted at 6 locations. Day time results ranges from 52.0 to 54.2 dBA and night time results ranges from 41.0 to 43.7 dBA. Results show that during day and night time, noise quality results were within prescribed limits as per the national standards as well as ADB SPS recommended standards at all 6 locations.
9	Didwana	Construction	• Air Quality, • Noise Quality, • Ground • Water Quality, • Soil Quality	29.12.2023 to 30.12.2023	• STP Site – 01 (3.0 MLD Mela Maidan) • SPS 1 (1.7 MLD, Salt road) • SPS 2 (1.3 MLD Choti Devi School) • Pipe laying Site- (Zone-7)	• Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM10 (ranges from 61.4 to 78.3 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 33.3 to 50.0 $\mu\text{g}/\text{m}^3$) values in all 4 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. • Noise quality monitoring conducted at 4 locations. Day time results ranges from 50.3 to 60.8 dBA and night time results

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						ranges from 38.6 to 40.5 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 4 locations whereas noise quality results during night time were within prescribed limits as per both standards at all 4 locations.
				28.03.2024 to 29.03.2024	• STP 3 MLD Site (Mela Maidan) • SPS 1.3 MLD Site (Chhoti Devi School) • SPS 1.7 MLD (Salt Road) • Pipe Laying Site Near Sensitive Area (Store Room Kalwani Choraya)	• Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM₁₀ (ranges from 72.8 to 80.5 µg/m³ and PM 2.5 (ranges from 30.8 to 38.7 µg/m³) values in all 4 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. • Noise quality monitoring conducted at 4 locations. Day time results ranges from 56.5 to 64.1 dBA and night time results ranges from 42.3 to 53.7 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 4 locations whereas noise quality results during night time were within prescribed limits as per both standards at 1 location.
10	Ladnu	Construction	• Air Quality,	28.12.2023 to 29.12.2023	• STP Site – 01 (5.5 MLD Asota Village)	• Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
			- Noise Quality, Ground - Water Quality, - Soil Quality		- STP Site- 02 (2.4 MLD Chipoli) - Pipe Laying Site- 1 - Pipe laying Site- 2	4 locations, whereas PM10 (ranges from 59.7 to 83.2 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 38.0 to 45.8 $\mu\text{g}/\text{m}^3$) values in all 4 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 4 locations. Day time results ranges from 51.4 to 58.8 dBA and night time results ranges from 36.7 to 40.9 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 4 locations whereas noise quality results during night time were within prescribed limits as per both standards at all 4 locations.
				27.03.2024 to 28.03.2024	- STP – 1 (5.5 MLD) Asota Village - STP – 2 (2.4 MLD) Chipoli - Pipe Laying Site Near Sensitive Area (Guest House, Janta Colony) - Pipe Laying Site Near Sensitive Area (Gaurav Path, L&T Office)	- Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM10 (ranges from 70.5 to 78.5 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 32.6 to 39.1 $\mu\text{g}/\text{m}^3$) values in all 4 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 4 locations. Day time results ranges from 56.1 to 62.4 dBA and night time results ranges from 43.5 to 52.3 dBA. Results show that during day time, noise quality results were slightly higher than the

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						national standards as well as ADB SPS recommended standards for residential areas at all 4 locations whereas noise quality results during night time were within prescribed limits as per both standards at 1 location.
11	Banswara	Construction	- Air Quality, - Noise Quality, Ground - Water Quality, - Soil Quality	05.12.2023 to 08.12.2023	- STP Site - WTP AEn Campus - SPS @ Nathelav Pond - WTP Kagdi Site - Pratpgarh Road - Custom Char Rasta	- Air quality monitoring conducted at 6 locations and all results are within national standards for all parameters in all 6 locations, whereas PM₁₀ (ranges from 52.1 to 77.3 µg/m³ and PM_{2.5} (ranges from 23.7 to 38.1 µg/m³) values in all 6 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 6 locations. Day time results ranges from 58.0 to 73.0 dBA and night time results ranges from 48.0 to 66.0 dBA. Results show that during day time and night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 6 locations.
12	Ratangarh	Construction	- Air Quality, - Noise Quality, Ground - Water Quality, - Soil Quality	21.09.2023 to 23.09.2023	- STP (3.8 MLD) - SPS (3.8 MLD) - SPS (4.6 MLD) - STP (6.1 MLD) - Workmen Camp - Guest house Ratangarh	Air quality monitoring conducted at 6 locations and all results are within national standards for all parameters in all 6 locations, whereas PM₁₀ (ranges from 60.9 to 67.8 µg/m³ and PM_{2.5} (ranges from 21.6 to 27.0 µg/m³). All other parameters are within prescribed limits as per both standards.

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						Noise quality monitoring conducted at 6 locations. Day time results ranges from 53.4 to 64.5 dBA and night time results ranges from 41.5 to 51.4 dBA. Results show that during day time and night time noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards at 3 locations.
				25.12.2023 to 26.12.2023	- STP 3.8 MLD - STP 6.1 MLD - SPS 3.8 MLD - SPS 4.6 MLD - Workmen Camp - Guest House	- Air quality monitoring conducted at 6 locations and all results are within national standards for all parameters in all 6 locations, whereas PM₁₀ (ranges from 63.8 to 73.6 µg/m³ and PM_{2.5} (ranges from 23.8 to 30.7 µg/m³) values of PM_{2.5} at 5 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 6 locations. Day time results ranges from 53.0 to 63.8 dBA and night time results ranges from 39.8 to 48.7 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards at 3 locations.
13	Fatehpur	Construction	- Air Quality, - Noise Quality, - Ground - Water Quality,	21.09.2023 to 29.09.2023	- At Nawalgarh Railway Puliya - Naribari Road 4.3 MLD STP - Workmen Camp Bikaner Puliya - Behind Dholi Sati Temple (3.5 MLD)	Air quality monitoring conducted at 5 locations and all results are within national standards for all parameters in all 5 locations, whereas PM₁₀ (ranges from 63.3 to 68.5 µg/m³ and PM_{2.5} (ranges from 21.8 to 23.5 µg/m³) values in all 5

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
			Soil Quality		0.6 MLD SPS Fatehpur	locations are within applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 5 locations. Day time results ranges from 62.7 to 68.5 dBA and night time results ranges from 48.4 to 54.2 dBA. Results show that during day time and night time noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards at all 5 locations.
				27.12.2023 to 29.12.2023	- Nawalgarh Railway puliya - At Naribari Road STP 4.3 MLD - At Behind Dholi Sati Temple SPS 3.5 MLD - SPS 0.6 MLD - Workmen Camp Bikaner Puliya	- Air quality monitoring conducted at 5 locations and all results are within national standards for all parameters in all 5 locations, whereas PM₁₀ (ranges from 67.9 to 72.6 µg/m³ and PM_{2.5} (ranges from 23.6 to 30.8 µg/m³) values in 4 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 5 locations. Day time results ranges from 62.1 to 69.4 dBA and night time results ranges from 46.4 to 51.4 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards at all 5 locations.

Table 20 B: Summary of environmental monitoring conducted under RSTDSP (FSTP Towns) during October 2023 to March 2024

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
1	Bari	Construction	- Air Quality, - Noise Quality, Ground - Water Quality, - Soil Quality	15.12.2023	FSTP Site Bari Town	- Air quality monitoring conducted at 1 location & results are within national standards for all parameters, whereas PM10 was found 69.6 µg/m³ and PM 2.5 was found 27.1 µg/m³) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time results found 62.8 dBA and night time results found 48.1 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
				20.03.2024 to 21.03.2024	FSTP Site Bari Town	- Air quality monitoring conducted at 1 location & results are within national standards for all parameters, whereas PM10 was found 67.6 µg/m³ and PM 2.5 was found 25.10 µg/m³) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time results found 61.1 dBA and night time results found 47.5 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
2	Bhawani Mandi	Construction	- Air Quality, - Noise Quality, Ground	12.12.2023	FSTP Site Bhawani Mandi Town	Air quality monitoring conducted at 1 location & results are within national standards for all parameters, whereas PM10 was found 66.0 µg/m³ and PM 2.5 was found 26.0 µg/m³) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards.

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
			- Water Quality, - Soil Quality			Noise quality monitoring conducted at 1 location. Day time results found 68.1 dBA and night time results found 45.3 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
				22.03.2024 to 23.03.2024	FSTP Site Bhawani Mandi Town	- Air quality monitoring conducted at 1 location & results are within national standards as well as applicable ADB SPS limits for all parameters, whereas PM10 was found 67.3 µg/m³ and PM 2.5 was found 24.7 µg/m³). All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time results found 62.1 dBA and night time results found 44.6 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
3	Bhinder – Kanode	Construction	- Air Quality, - Noise Quality, - Ground - Water Quality, - Soil Quality	15.12.2023	FSTP Site Bhinder – Kanode Town	- Air quality monitoring conducted at 1 location & results are within national standards for all parameters, whereas PM10 was found 76.1 µg/m³ and PM 2.5 was found 33.6 µg/m³) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time results found 60.1 dBA and night time results found 42.4 dBA. Results show that during day time, noise quality results were slightly higher whereas during night time noise quality results are within the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
				23.03.2024 to 24.03.2024	FSTP Site Bhinder –	Air quality monitoring conducted at 1 location & results are within national standards for all parameters,

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
					Kanode Town	whereas PM10 was found 77.4 µg/m³ and PM 2.5 was found 34.3 µg/m³) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 1 location. Day time results found 62.6 dBA and night time results found 45.5 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
4	Dausa	Construction	- Air Quality, - Noise Quality, - Ground - Water Quality, - Soil Quality	14.12.2023	FSTP Site Dausa Town	- Air quality monitoring conducted at 1 location & results are within national standards for all parameters, whereas PM10 was found 65.1 µg/m³ and PM 2.5 was found 26.51 µg/m³) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time results found 60.4 dBA and night time results found 42.1 dBA. Results show that during day time, noise quality results were slightly higher whereas during night time noise quality results are within the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
				19.03.2024 to 20.03.2024	FSTP Site Dausa Town	- Air quality monitoring conducted at 1 location & results are within national standards as well as applicable ADB SPS limits for all parameters, whereas PM10 was found 63.5 µg/m³ and PM 2.5 was found 23.3 µg/m³). All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time results found 59.4 dBA and night time results found 43.3 dBA. Results show that during day & night time, noise quality results were slightly higher than the

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
5	Deeg	Construction	- Air Quality, - Noise Quality, Ground - Water Quality, - Soil Quality	16.12.2023	FSTP Site Deeg Town	- Air quality monitoring conducted at 1 location & results are within national standards for all parameters, whereas PM10 was found 67.2 µg/m³ and PM 2.5 was found 26.5 µg/m³) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time results found 62.3 dBA and night time results found 44.1 dBA. Results show that during day time, noise quality results were slightly higher whereas during night time noise quality results are within the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
				20.03.2024 to 21.03.2024	FSTP Site Deeg Town	- Air quality monitoring conducted at 1 location & results are within national standards as well as applicable ADB SPS limits for all parameters, whereas PM10 was found 66.5 µg/m³ and PM 2.5 was found 24.5 µg/m³). All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time results found 63.1 dBA and night time results found 44.5 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
6	Gangapur (Bhilwara)	Construction	- Air Quality, - Noise Quality, Ground	16.12.2023	FSTP Site Gangapur (Bhilwara) Town	Air quality monitoring conducted at 1 location & results are within national standards for all parameters, whereas PM10 was found 78.4 µg/m³ and PM 2.5 was found 34.1 µg/m³) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards.

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
			- Water Quality, - Soil Quality			Noise quality monitoring conducted at 1 location. Day time results found 63.1 dBA and night time results found 46.2 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
				22.03.2024 to 23.03.2024	FSTP Site Gangapur (Bhilwara) Town	- Air quality monitoring conducted at 1 location & results are within national standards for all parameters, whereas PM10 was found 77.9 µg/m³ and PM 2.5 was found 33.4 µg/m³) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time results found 59.4 dBA and night time results found 40.1 dBA. Results show that during day time, noise quality results were slightly higher whereas during night time noise quality results are within the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
7	Shahpura (Bhilwara)	Construction	- Air Quality, - Noise Quality, - Ground - Water Quality, - Soil Quality	14.12.2023	FSTP Site Shahpura (Bhilwara) Town	- Air quality monitoring conducted at 1 location & results are within national standards for all parameters, whereas PM10 was found 74.1 µg/m³ and PM 2.5 was found 33.3 µg/m³) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time results found 64.4 dBA and night time results found 52.6 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
				22.03.2024 to 23.03.2024	FSTP Site Shahpura	Air quality monitoring conducted at 1 location & results are within national standards for all parameters,

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
					(Bhilwara) Town	whereas PM₁₀ was found 73.0 µg/m³ and PM 2.5 was found 32.1 µg/m³) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 1 location. Day time results found 58.4 dBA and night time results found 41.4 dBA. Results show that during day time, noise quality results were slightly higher whereas during night time noise quality results were within national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
8	Tijara	Construction	- Air Quality, - Noise Quality, - Ground - Water Quality, - Soil Quality	19.12.2023	FSTP Site Tijara Town	- Air quality monitoring conducted at 1 location & results are within national standards as well as applicable ADB SPS limits for all parameters, whereas PM₁₀ was found 63.3 µg/m³ and PM 2.5 was found 23.7 µg/m³). All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time results found 62.4 dBA and night time results found 54.3 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
				21.03.2024 to 22.03.2024	FSTP Site Tijara Town	- Air quality monitoring conducted at 1 location & results are within national standards as well as applicable ADB SPS limits for all parameters, whereas PM₁₀ was found 60.2 µg/m³ and PM 2.5 was found 21.8 µg/m³). All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time results found 59.4 dBA and night time results found 41.1 dBA. Results show that during day & night time, noise quality results were slightly higher than the

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
9	Neem Ka Thana	Construction	- Air Quality, - Noise Quality, - Ground Water Quality	24.12.2023	FSTP Site Neem Ka Thana	- Air quality monitoring conducted at 1 location & results are within national standards for all parameters, whereas PM10 was found 79.2 µg/m³ and PM 2.5 was found 50.1 µg/m³) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time results found 62.0 dBA and night time results found 49.0 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
				24.03.2024 to 25.03.2024	FSTP Site Neem Ka Thana	- Air quality monitoring conducted at 1 location & results are within national standards for all parameters, whereas PM10 was found 79.2 µg/m³ and PM 2.5 was found 50.1 µg/m³) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time results found 64.0 dBA and night time results found 53.0 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
10	Bandi Kui	Construction	- Air Quality, - Noise Quality, - Ground Water Quality	23.12.2023	FSTP Site Bandi Kui	Air quality monitoring conducted at 1 location & results are within national standards for all parameters, whereas PM10 was found 80.9 µg/m³ and PM 2.5 was found 45.6 µg/m³) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards.

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						Noise quality monitoring conducted at 1 location. Day time results found 62.0 dBA and night time results found 47.0 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
				21.03.2024 to 22.03.2024	FSTP Site Bandi Kui	- Air quality monitoring conducted at 1 location & results are within national standards for all parameters, whereas PM10 was found 85.4 µg/m³ and PM 2.5 was found 49.2 µg/m³) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time results found 64.0 dBA and night time results found 51.0 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
11	Jobner	Construction	- Air Quality, - Noise Quality, - Ground Water Quality	22.12.2023	FSTP Site Jobner	- Air quality monitoring conducted at 1 location & results are within national standards for all parameters, whereas PM10 was found 71.6 µg/m³ and PM 2.5 was found 43.8 µg/m³) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time results found 60.0 dBA and night time results found 49.0 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
				22.03.2024 to 23.03.2024	FSTP Site Jobner	Air quality monitoring conducted at 1 location & results are within national standards for all parameters, whereas PM10 was found 80.3 µg/m³ and PM 2.5 was

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						found 39.7 $\mu\text{g}/\text{m}^3$) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 1 location. Day time results found 63.0 dBA and night time results found 50.0 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at monitoring location.
12	Pilibanga-Suratgarh	Construction	- Air Quality, - Noise Quality, - Ground Water Quality	18.03.2024 to 19.03.2024	FSTP Site Pilibanga-Suratgarh	- Air quality monitoring conducted at 1 location & results are within national standards for all parameters, whereas PM10 was found 64.0 $\mu\text{g}/\text{m}^3$ and PM 2.5 was found 26.4 $\mu\text{g}/\text{m}^3$) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time results found 60.0 dBA and night time results found 43.0 dBA. Results show that during day time, noise quality results were slightly higher whereas during night time noise quality results are within national standards as well as ADB SPS recommended standards for residential areas at monitoring location.

8. ASBESTOS MANAGEMENT

23. Asbestos is a collective name given to a group of minerals that occur naturally as fiber bundles and possess high tensile strength, flexibility, heat resistance, non-biodegradability with chemical and physical durability. Asbestos is hydrated silicates with complex crystal structures. It is found in two configurations: chrysotile (derived from serpentine minerals) and amphibole is a naturally occurring mineral with long thin fibers. The most abundant asbestos used in the world is chrysotile. The use of Asbestos Containing Materials (ACM) propagated due to its economic viability.

24. Presently Asbestos is banned all over India, therefore there is no use of new ACMs at any project site. But, in the existing water supply system, Asbestos pipes are laid earlier, which are still in use by PHED. After completion of RSTDSP construction works, these old lines containing Asbestos pipes will be made defunct and new HDPE pipelines will be made functional for city water supply. There is chance of stored Asbestos pipes at project sites or encounter with ACM during pipe laying works in old/inner areas of towns, where existing water supply networks may contain Asbestos pipes. Keeping in mind the hazardous nature of Asbestos Containing Materials (ACM), Asbestos Management Plan (AMP) is being prepared to prevent the exposure of people to Asbestos. The purpose of this AMP is to identify, use appropriate methodology and scientifically handling /disposal of the Asbestos Containing Materials (ACM) in order to comply with the applicable National legislation and international standards in sync with norms of ADB's SPS 2009. Draft of ACM is already included in draft IEEs, which is being updated as per project town conditions.

25. PMU have mobilized the ACM Management Expert (ACMME) and ACMME is preparing Asbestos Containing Material Management Plan (ACMMP) for the towns where the water supply is a component of subproject. The ACMMP for following towns has been prepared by ACM Expert: Banswara, Abu Road, Sirohi, Khetri, Kuchaman and Mandawa, Laxmangarh and Sardarshahar, and the same is to be updated in IEEs for respective towns for submission to ADB and its approval. Contractors have already been made aware of hazards of ACM during pre-construction and during construction by ACM Expert in his site visit and trainings for ACM management is provided in all project towns.

9. SITE VISITS FOR MONITORING OF CONTRACTORS PERFORMANCE FOR ENVIRONMENTAL SAFEGUARD COMPLIANCE

27. During reporting period environmental safeguard experts of CMSCs visited different sites for monitoring of contractors' environmental safeguard compliances in different sites. Environmental Site visit checklists are given in **Appendix 4** and summary of site visits is given in following **Table – 21**.

Table 21- Summary of Site Visits

Site Visit: Ratangarh Town

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
1.	Towns visited:	Ratangarh	
	Date of site Visit:	26.10.2023	
	Person visited the Site:	Ugrasen Kumar (Environmental Safeguard Support) along with Support Engineers CMSC-2, Ratangarh	
	Discussion with: R.D. Garg, Ex. En, PIU, Ratangarh	Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines.	- All Legal, Contractual and Environmental Regulatory documents should be complied/updated according to ADB-SPS 2009 guidelines and maintained in master file for record purpose. Also, directed to contractor team to prepare and updated all monthly Environments, Health and Safety (EHS) formats in organized manner. - Housekeeping and other facilities at worker's camp was discussed and instructed to contractor to improve housekeeping. - Project information board to be seen from distance. - Material was dumped at site on random areas which were leads to minor or major injuries for site engaged workers and site staff so directed to contractor team to maintain proper stack the material (below 1.5 m height) at safe area with proper partition with display board and duly covered site material with green net to minimize any physical damage.

Site Visit: Ratangarh Town

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
2.	Town visited:	Ratangarh	
	Date of Site visit:	30.10.2023	
	Person visited the Site:	Ugrasen Kumar (Environmental Safeguard Support) along with Support Engineers CMSC-2, Ratangarh	
	Discussion with: R.D. Garg, Ex. En, PIU, Ratangarh	Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines.	For status of obtaining agreements for reuse of treated water between ULBs and private entities • All Legal, Contractual and Environmental Regulatory documents should be complied/updated according to ADB-SPS 2009 guidelines and maintained in master file for record purpose. Also, directed to contractor team to prepare and updated all monthly Environments, Health and Safety (EHS) formats in organized manner. • Barricading shall be done in proper manner and workers shall wear proper PPE while working • Workers working at height shall wear full body harness , safety belt and helmet. Which is assured by EHS of contractor.

Site Visit: Sirohi Town

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
3.	Towns visited:	Sirohi	
	Person visited the Site:	Amit Chauhan (Environmental Safeguard Support) along with Mr. S. Natrajan (ACM) and Support Engineers CMSC-2, Sirohi	
	Date of site Visit:	09.10.2023	
	Discussion with: 1. Ms. Sanju Poonia, Junior Engineer(JEn), PIU, Mandawa 2. Mr. Magraj Godara (Deputy Project Manager, M/s LNA – RNB (JV) 3. Mr. Manoj Kumar Joya (EHS Officer, M/s LNA – RNB (JV)	• Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines. • Workers camp facilities • Barricades and safety arrangements at site • Environment, Health and Safety site specific issues	• All Legal, Contractual and Environmental Regulatory documents should be complied/updated according to ADB-SPS 2009 guidelines and maintained in master file for record purpose. Also, directed to contractor team to prepare and updated all monthly Environments, Health and Safety (EHS) formats in organized manner. • Safety boards and warning signage need to be installed at 9 MLD WTP site in Angoor HW. • Workers shall wear proper PPE while working .

Site Visit: Ratangarh Town

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
4.	Towns visited:	Ratangarh	
	Person visited the Site:	Ugrasen Kumar (Environmental Safeguard Support) along with Support Engineers CMSC-2, Ratangarh	
	Date of site Visit:	07.11.2023 to 20.11.2023	
	Discussion with: Ms. Sanju Poonia, Junior Engineer(JEn), PIU, Mandawa Mr. Magraj Godara (Deputy Project Manager, M/s LNA – RNB (JV) Mr. Manoj Kumar Joya (EHS Officer, M/s LNA – RNB (JV)	• Training Orientation to Workers on Environment & Safety • Discussed about Contractual and Legal Requirement at operation stage of STP.	• Good practices were observed regarding wearing PPE kits as all workers were wearing PPEs and barricades were properly installed in work areas. • Diesel leakage was observed at 6.1 MLD STP site and removal of the same is required. Same is complied by the contractor.

Site Visit: Ratangarh Town

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
5	Towns visited:	Ratangarh	
	Person visited the Site:	Ugrasen Kumar (Environmental Safeguard Support) along with Support Engineers CMSC-2, Ratangarh	
	Date of site Visit:	27.11.2023 to 27.11.2023	
	Discussion with: R.D. Garg, Ex. En, PIU, Ratangarh	• Training Orientation to Workers on Environment & Safety • Discussed about Contractual and Legal Requirement at operation stage of STP.	• Good practices were observed regarding installation of information board, wearing PPE kits as all workers were wearing PPEs, installation of sign boards at electrical works, proper availability of mobile toilets and barricades were properly installed in work areas.

Site Visit: Ratangarh Town

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
6	Towns visited:	Ratangarh	
	Person visited the Site:	Ugrasen Kumar (Environmental Safeguard Support) along with Support Engineers CMSC-2, Ratangarh	
	Date of site Visit:	28.11.2023 to 30.11.2023	
	Discussion with: R.D. Garg, Ex. En, PIU, Ratangarh	• Training Orientation to Workers on Environment & Safety • Discussed about Contractual and Legal Requirement at operation stage of STP.	• Good practices were observed regarding installation of information board, wearing PPE kits as all workers were wearing PPEs, installation of sign boards at electrical works, proper availability of mobile toilets and barricades were properly installed in work areas.

Site Visit: Sirohi Town

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
7.	Towns visited:	Sirohi	
	Person visited the Site:	Mr. Amit Kumar Chauhan (Environment Safeguard Support PIU Sirohi)	
	Date of site Visit:	15.12.2023 to 18.12.2023	
	Discussion with: • Mr. Satish Vaniya (Safety Officer L&T, Sirohi) • Brijesh Verma (Support Engineer), • Shivalal (Support Engineer); • Subhash Saini (Safety Steward L&T)	• Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines. • Environment, Health and Safety documentation record. • Environmental, Health & Safety Training was conducted to site workers at Site and following topics were discussed Topics Discussed: • RUIDP safeguards requirements; • Safeguards implementation arrangements and roles and	• All the Legal and Contractual and Environmental Regulatory Compliances documents completed and maintained in the master file for record purpose. • Directed to contractor that prepare all the Environment, Health and Safety documentation on monthly basis and keep updating all documentation in proper manner for record purpose. • Photos and Attendance Sheets are attached as Appendix 1

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
		responsibility of different functionaries in the project; • Safety during working at height, • Safety during working in Trenches, • Safety during working in pit excavation • Safety During Casting • Personal Safety Equipment's • Possible accidents and safety measures, • Safety during iron bar cutting, • Occupational and community health and safety; • Labour and public safety and labour laws; • Solid waste (domestic, construction, and spoils) management; • Periodical environmental monitoring requirements for air, noise, water and soil; • Areas of safety concerns in construction works; • Public consultations and grievance redress mechanism of RUIDP; • Probable pollutions during construction works and their mitigation measures.	
		• Medical Health Check-up of Labours and Site Staff.	• Site staff and site workers Medical Health Check-up for Labours and Site staff on regular basis is mandatory and being carried out on monthly basis.
		• Environment, Health and Safety Site specific issues.	• Site specific observation and their control measures discussed with them and directed to contractor to implement the same on urgent basis.
		• Barricades and safety arrangements at site.	• Directed the contractor to provide hard barricading around to unsafe excavated area with proper safety signage board as Hard barricading is mandatory at unsafe excavated and height working areas,
		• Labour camp facilities	• Well maintained labour camp facilities were provided to all labours in campus area. Instructed the contractor to provide the same facilities on site as well.

Site Visit: Abu Road Town

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
8.	Towns visited:	Abu Road Town.	
	Person visited the Site:	• Dr. Mahaveer Saini (Environment Safeguard, Professional), • Amit Kumar Chauhan (Env.Safeguard Support), CMSC – II Jodhpur • Safety Steward, L& T, Abu Road	
	Date of site Visit:	21.02.2024	
	•	•	•
	Discussion with	Topics of discussion	Outcome
	• Mr. Sunil Kumar (JEn RUIDP, PIU Abu Road), • Krishna Devasi (Safety Steward), • Tapesha Sharma (Safety Steward), • Vishnu Adhikari (Site Engineer L&T)	• Contractual & Legal Requirements.	• All Legal, Contractual and Environmental Regulatory documents should be updated and all legal permission from their concerned department should be obtained timely without any delay. Also, directed to contractor team to prepare all Environments, Health and Safety formats in a proper manner and keep updates on monthly basis.
		• Site visit Observation Report	• Site specific observation and their control measures discussed with them and directed the contractor to implement the same on urgent basis.
		• Environment, Health and Safety documentation record.	• Directed to contractor that prepare all the Environment, Health and Safety documentation on monthly basis and keep updating all documentation in proper manner for record purpose.

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
		Environment, Health and Safety, Site specific issues & Medical Health Check-up of Labour and Site Staff.	Site staff and site workers medical health check-up is mandatory and it will be carried out on monthly basis. So, directed to organized medical health check-up camp at site to meet the compliance status.
		Safety Training/ Orientation to workers at Site.	Conducted Safety Training/ Orientation to workers at Site and discussed about Personal Safety Equipment's, Occupational and community health and safety and Safety during working at height.

Site Visit: Abu Road Town

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
9.	Towns visited:	Abu Road Town.	
	Person visited the Site:	Mr. Ugrasen Kumar (Environmental Safeguard Support) along with Support Engineers CMSC-2 & Mr Rakesh Kumar Sahu, Safety Officer L&T, Sardarshahar	
	Date of site Visit:	03.03.2024 to 11.03.2024	
	Discussion with	Topics of discussion	Outcome
	- Mr. Manoj Kumar Mittal, Executive Engineer, PIU, Sardarshahar - Mr. Dinesh Kumar, AEn, PIU, Sardarshahar	- CTE/CTO Application - Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines - Site visit Observation Report	- Being Complied. - All Legal, Contractual and Environmental Regulatory documents should be updated and all legal permission from their concerned department should be obtained timely without any delay. Also, directed to contractor team to prepare all Environments, Health and Safety formats in a proper manner and keep updates on monthly basis. - Site specific observation and their control measures disused with

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
		- Environment, Health and Safety Site specific issues & Labour and Site Staff Medical Health Check-up - Environment, Health and Safety documentation record	them and directed to contractor to implement the same on urgent basis. - Site staff and site workers medical health check-up is mandatory and it will be carried out on monthly basis. So, directed to organized medical health check-up camp at site to meet the compliance status - Directed to contractor that prepare all the Environment, Health and Safety documentation on monthly basis and keep updating all documentation in proper manner for record purpose.

Site Visit: Abu Road Town

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
10.	Towns visited:	Abu Road Town.	
	Person visited the Site:	Dr. Mahaveer Saini (Environment Safeguard Professional) Amit Kumar Chauhan (Environmental Safeguard Support) CMSC II Jodhpur & Safety Steward.	
	Date of site Visit:	13.03.2024 to 15.03.2024	
	Discussion with	Topics of discussion	Outcome
	- Mr. Manish Arora, (SE, RUIDP, PIU, Abu Road), - Mr. Sunil Kumar (J.En RUIDP, PIU Abu Road), - Venkatrao Patil (Team Leader, CMSC-2, Jodhpur), - Pankaj Biswas (Project Manager L&T), - Monuj Sakia (Safety Officer, L&T),	- Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines - Site visit Observation Report	- All Legal, Contractual and Environmental Regulatory documents should be updated and all legal permission from their concerned department should be obtained timely without any delay. Also, directed to contractor team to prepare all Environments, Health and Safety formats in a proper manner and keep updates on monthly basis. - Site specific observation and their control measures discussed with them and directed the contractor to

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
	• Tapesha Sharma (Safety Steward L&T), • Vishnu Adhikari (Site Engineer L&T)		implement the same on urgent basis.
		• Environment, Health and Safety documentation record.	• Directed to contractor that prepare all the Environment, Health and Safety documentation on monthly basis and keep updating all documentation in proper manner for record purpose.
		• Environment, Health and Safety, Site specific issues & Medical Health Check-up of Labour and Site Staff.	• Site staff and site workers medical health check-up is mandatory and it will be carried out on monthly basis. So, directed to organized medical health check-up camp at site to meet the compliance status.
		• Safety Training/ Orientation to workers at Site.	• Conducted Safety Training/ Orientation to workers at Site and discussed about Personal Safety Equipment's, Occupational and community health and safety and Safety during working at height.

Site Visit: Mandawa Town

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
11.	Towns visited:	Mandawa	
	Person visited the Site:	Mr. Yogesh Kumar Atreya, Gender, Social Safeguard and Environment Support Staff, CMSC-01 RUIDP Mandawa	
	Date of site Visit:	26.03.2024 to 30.03.2024	
	Discussion with	Topics of discussion	Outcome
	Contractor Team in Contractor Office, Mandawa	Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines	All Legal, Contractual and Environmental Regulatory documents should be complied/ updated according to ADB-SPS 2009 guidelines and maintained in master file for record purpose. Also, directed to contractor team to prepare and updated all monthly Environments, Health and Safety (EHS) formats in organized manner.
		Material Stacking and Housekeeping issues at site	Discussed on ensure proper housekeeping at Structure site Sewerage treatment Plant, SPS and PHED Campus
		Environment, Health and Safety site specific issues	Discussed on ensure proper environment monitoring test regularly and on working day
		Health & Site safety	Discussed on ensure proper site safety at working Site and organized medical health check-up for workers at site.
		Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines	Labour licence and Sand mining/Quarry (whether contractor's or third party) is required and CAR policy expired in this Month

10. ORIENTATIONS FOR SAFEGUARDS

28. Environmental performance of contractors can be improved and ensured through regular orientations and trainings. Orientations for environmental safeguards including provisions of ADB SPS 2009 and other contractual and legal requirements as per Central and State Governments are necessary for contractors and site staff of PIUs and Consultants to understand the basic EHS requirements during construction works. Safeguard orientations of site engineers of PIUs, CMSCs and contractors is done by PMCBC/CMSC environmental specialists in all towns at pre-construction stage. These orientations included following topics-

- ❖ ADB SPS 2009 and RUIDP safeguards requirements
- ❖ Contractual and legal requirements as per ADB, RUIDP, Govt. of Rajasthan and Govt. of India legislations, requirement of consents (CTE/CTO) from RSPCB for WTP/STP/DG set etc.,
- ❖ Safeguard provisions in contract documents, pre-construction requirements
- ❖ Safeguards implementation arrangements and roles and responsibility of different functionaries in the project
- ❖ Assessment of environmental impacts and planning for mitigation measures, including best management practices, in the design, construction, operation and maintenance of water supply and sewerage subprojects
- ❖ Preparation, updating, and review of IEE
- ❖ Preparation of site-specific EMPs/EHS Plan
- ❖ Occupational and community health and safety
- ❖ Labor and public safety and labor laws
- ❖ Heritage conservation, Biodiversity conservation
- ❖ Asbestos Management Plan (ACM)
- ❖ Solid waste (domestic, construction, and spoils) management
- ❖ Environmental monitoring including air, noise, water and soil
- ❖ Preparation of monitoring checklists and reports
- ❖ Areas of safety concerns in construction works
- ❖ Public consultations and grievance redress mechanism of RUIDP
- ❖ Good practices, tree plantations
- ❖ Probable pollutions during construction works and their mitigation measures
- ❖ Reuse of treated effluent and sludge from STP
- ❖ COVID-19 prevention and control

29. Environmental safeguard orientations at Kuchaman, Mandawa, Ladnu, Makrana-Didwana Pratapgarh, Banswara, Abu Road & Sirohi was done during this reporting period.

30. During site visits of safeguard experts/safeguard support personnel of CMSC to project sites, onsite orientations for safeguards compliances are regularly being done for site engineers of PIU/CMSC/Contractors, site supervisors, workers and operators. During orientations ADB SPS Policy and safeguard requirements are described to attendees and non-compliances observed during site visits is discussed with them and required rectification and mitigation measures are also described in detail.

31. Contractors' EHS personnel also give orientations and trainings to their site staff and workers regarding environmental safeguard implementation at work sites. Different topics such as safety during trench works, work at height, confined space works, hot works, PPEs, health and sanitation, COVID-19 prevention and control, public safety, barricades etc are covered under the training given by contractors' EHS personal. Details of Contractors' trainings are given in **Appendix 9**.

32. During the reporting period following safeguard orientations were done by CMSC environmental safeguard Professionals-

Table 22- Safeguard Orientations Done by Environmental Safeguard Professionals of PMCBC during October 2023 to March 2024)

S. No.	Orientation/Training	Date	Demonstrators	Participants
1	Town: Sirohi			
	Orientation regarding Importance of health and safety during Work at Height (W@H) and Compliance of Covid 19 Protocol	15.12.2023	Mr. Amit Kumar Chauhan (Environment Safeguard Support PIU Sirohi)	PIU: 1. Brijesh Verma (Support Engineer), 2. Shivalal (Support Engineer); Consultant (CMSC-II): 1. Mr. Amit Kumar Chauhan (Environment Safeguard Support PIU Sirohi). Contractor: 1. Mr. Satish Vaniya (Safety Officer L&T, Sirohi) 2. Subhash Saini (Safety Steward L&T) Total Participants- 10 Male-10 Female-00
2	Town: Abu Road			
	Orientation regarding: • Importance of safety while working with steel bar at TEER and importance of Harness Belt while working on height. • Importance of Personal Protective Equipment's (PPEs) • Occupational and community health and safety; • Safety during working at height,	21.02.2024	• Dr. Mahaveer Saini (Environment Safeguard, Professional),	PIU: 1. Mr. Sunil Kumar (JEn RUIDP, PIU Abu Road)), Consultant (CMSC-II): 1. Mr. Mahavir Prasad Saini, Environmental Safeguard Professional, CMSC-II Jodhpur. 2. Mr. Ankur Saini, (Support Engineer, CMSC-2, Banswara) Contractor: 1. Krishna Devasi (Safety Steward), 2. Tapesh Sharma (Safety Steward), 3. Vishnu Adhikari (Site Engineer L&T) Total Participants- 22

S. No.	Orientation/Training	Date	Demonstrators	Participants
	• Safeguards implementation arrangements and roles and responsibility of different functionaries in the project; • Safety during working in Trenches, • Safety during working in pit excavation • Safety During Casting • Possible accidents and safety measures, • Safety during iron bar cutting, • Labour and public safety and labour laws; • Solid waste (domestic, construction, and spoils) management; • Periodical environmental monitoring requirements for air, noise, water and soil; • Areas of safety concerns in construction works; • Public consultations and grievance redress mechanism of RUIDP; • Probable pollutions during construction works and their			Male-20 Female-02

S. No.	Orientation/Training	Date	Demonstrators	Participants
	mitigation measures.			
3	Town: Sirohi			
	Orientation regarding: - Personal Safety Equipment's - Occupational and community health and safety; Safety during working at height, - Safety during working in pit excavation - Safety During Casting - Female safety and security during working - Possible accidents and safety measures - Safety during iron bar cutting, - Safety during Welding - Solid waste (domestic, construction, and spoils) management. Areas of safety concerns in construction works	26.02.2024	Mr. Ugrasen Kumar Environment Safeguard Support Staff : CMSC-2, Ratangarh	Consultant (CMSC-II): - Mr. Ugrasen Kumar Environment Safeguard Support Staff : CMSC-2, Ratangarh. Contractor: - Mr Abhash Khan, Safety Assistant, L&T Ratangarh Total Participants- 13 Male-10 Female-03

S. No.	Orientation/Training	Date	Demonstrators	Participants
4	Town: Sardarshahar			
	Orientation regarding: - Personal Safety Equipment's - Occupational and community health and safety; - Safety during working at height - Safety during working in pit excavation - Safety During Casting - Possible accidents and safety measures, - Safety during iron bar cutting, - Safety during Welding - Solid waste (domestic, construction, and spoils) management; Areas of safety concerns in construction works;	05.03.2024	Mr. Ugrasen Kumar Environment Safeguard Support Staff : CMSC-2, Ratangarh	Consultant (CMSC-II): 1. Mr. Ugrasen Kumar Environment Safeguard Support Staff : CMSC-2, Contractor: 1. Mr Alishan, Safety Assistant, L&T Sardarshahar 2. Mr Rakesh Kumar Sahu Safety Engineer, L&T Sardarshahar Total Participants- 21 Male-21 Female-00

Note- Photographs and attendance sheets of orientations are attached in Appendix 7

11. PUBLIC CONSULTATION & GRIEVANCE REDRESS MECHANISM

A. Public Consultation

33. Public consultations are being conducted by environmental safeguard professionals and environment safeguard support of CMSC through site visits which includes public consultations with project stakeholders including residents and shop owners, road users, public representatives etc, Summary of consultations done during reporting period is given in following table-

Table 23- SUMMARY OF CONSULTATIONS DURING OCTOBER 2023 TO MARCH 2024

S. No.	Date and place of consultation	Persons consulted	Topics discussed during consultation	Outcome of consultation
1.	On 12.12.2023 at Housing Board Colony, Sirohi	- Local residents of Housing board colony, Sirohi - Total person Consulted: 08	Any Grievance due to laying of Sewerage pipeline and other road construction work activities..	Local residences are satisfied with project site work and appreciate the site work.
2	On 21.02.2024 At Ganesh Colony, Abu Road and Kumar Mohalla , Abu Road	Local residents of Ganesh Colony and Kumar Mohalla , Abu Road Total person Consulted:10	- Any Grievance due to laying of Sewerage pipeline and other road construction work activities. They were informed about RUIDP project work. - Sewerage Connection Awareness - Awareness about Sanitation & Hygiene. - Housekeeping surrounding.	- Local residences were provided with the adequate details they were satisfied with project site work and appreciated the site work.. - Local residences are satisfied with project site work and appreciate the site work.
	On 26.02.2024 At Ward No.4, HSC work near Link Road and Main Giani, Ratangarh	Local residents of Ward No. 4 and Main Giani, Ratangarh Total person Consulted:17	- Sewerage Connection Awareness - Awareness about Sanitation & Hygiene - Housekeeping surrounding - Any Grievance due to laying of Sewerage pipeline and other road construction work activities.	Local residences are satisfied with project site work and appreciate the site work.

S. No.	Date and place of consultation	Persons consulted	Topics discussed during consultation	Outcome of consultation
3.	On 05.03.2024 at Gaffar Gali No.3 Sardarshahar	Local residents of Gaffar Gali No. 3, Sardarshahar Total person Consulted:12	• Sewerage Connection Awareness • Awareness about Sanitation & Hygiene • Housekeeping surrounding • Any Grievance due to laying of Sewerage pipeline and other road construction work activities.	Local residences are satisfied with project site work and appreciate the site work.
4	On 14.03.2024 at Kumar Mohalla, Sewer Zone-1, Abu Road	Local residents of Kumar Mohalla, Sewer Zone-1, Abu Road Total person Consulted:17	Any Grievance due to laying of Sewerage pipeline and other road construction work activities. They were informed about RUIDP project work.	Local residences were provided with the adequate details they were satisfied with project site work and appreciated the site work.
5	On 28.03.2024 at Mukandgarh Road, Mandawa	Local residents of Mukandgarh Road Total person Consulted:09	Discussion on water Meter installation in house during water connection work. Take feedback from community about project work at water connection	Local residences were provided with the adequate details they were satisfied with project site work and appreciated the site work.

34. Photographs of consultations and attendance sheets as a sample are attached as **Appendix 2**.

B. PROJECT-SPECIFIC GRIEVANCE REDRESS MECHANISM

35. A project-specific, three-tier grievance redress mechanism (GRM) covers both environment and social issues. The GRM will be established to receive, evaluate, and facilitate the resolution of affected persons' concerns, complaints, and grievances about the social and environmental performance at project level. The GRM will aim to provide a time-bound and transparent mechanism to voice and resolve social and environmental concerns related to the project. Assessment of the GRM designed and implemented for Rajasthan Urban Sector Development Program (RUSDP)⁵ the system was effective in timely resolution of grievances in a

⁵ The procedures followed for grievance redress during implementation of RUSDP Phase III included the project GRM and the pilot GRM software application (Smart Check) in Pali, the Sampark portal of Government of Rajasthan, and the Chief Minister's helpline. Complaints received through various channels were mostly minor and pertained to damage to existing water supply pipelines and disruption of water supply during construction, delays in road restoration, and pending new connections. Complaints related to damage to private property (compound walls/steps,

transparent manner.⁶ The multichannel, project-specific, three-tier GRM is functional at RUSDP, hence the design of GRM for RSTDSP takes into account the proposed institutional structure for RSTDSP and the positive features and learnings from the previous GRM.⁷

36. **Common GRM.** A common GRM will be in place for social, environmental, or any other grievances related to the project. Implementation of the resettlement plans/RIPPs/DDRs/IEEs will follow the GRM described below. The GRM will provide an accessible and trusted platform for receiving and facilitating resolution of affected persons' grievances related to the project.

37. Public awareness campaigns within entire ULB/Municipal area will ensure that awareness on grievance redress procedures is generated. The nodal officer- social/environment at field level through community awareness and public participation consultant (CAPPC) will conduct ULB/Municipal area-based awareness campaigns to ensure that poor and vulnerable households are made aware of grievance redress procedures and entitlements. Contractors will provide pamphlets to communities prior to start of works and billboards during construction. The pamphlets and billboards will include relevant environmental and social safeguards, GRM information, and contact details of key personnel from PIU and contractors.

38. Affected persons will have the flexibility of conveying grievances/suggestions by dropping grievance redress/suggestion forms in complaint/suggestion boxes that will be installed by project PIUs or by e-mail, by post, or by writing in a complaints register in ULB offices/complaints register

etc.) were less in number. The grievances were mostly possible to resolve in coordination with the contractors. Complaints received were immediately referred by the CAPC/PMDSC supervision staff to the PIU Nodal officer (safeguards) and concerned engineer at PIU, who advised them on further action. Follow up with the contractor on complaint resolution was undertaken by PIU Nodal officer CAPC and PMDSC and final feedback sought from complainant upon resolution. Complaints requiring inter-departmental coordination were referred to the PMU for resolution, and feedback provided to complainant. The PMU kept regular track of grievances through Whatsapp and email alerts, ensuring registration and follow-up until resolution.

⁶ Town-level grievance registration data indicates that a large number of grievances were registered, pointing to the effectiveness of the multi-channel GRM. No major grievance was received for RUSDP Phase III. The GRM helped smoothen the process of project implementation, hence the proposed architecture for the RSTDSP GRM remains similar, with some refinement, taking into account the changes in institutional setup proposed for project implementation.

⁷ Continued logistics support at field level will be key to successful management of grievance redress under RSTDSP. The target date for establishment of the first level (PIU level) and second level (Zonal level) of GRM is before loan negotiation.

at contractor's work site⁸ or by sending a Whatsapp message to the PIU⁹ or by dialling the phone number of town level PIU/CAPPC or by dialling a toll-free number.¹⁰ Any aggrieved person can also avail the facilities of online grievance monitoring system 'Rajasthan Sampark' portal to register their grievance which is a parallel mechanism of grievance registration, in addition to the project GRM.¹¹ Careful documentation of the name of the complainant, date of receipt of the complaint, address/contact details of the person, location of the problem area, and how the problem was resolved will be undertaken and feedback provided to the complainant on action/decision taken. The Safeguard and Safety Officer of town/city level PIU will have the overall responsibility for timely grievance redressal on environmental and social safeguards issues and for registration of grievances, related disclosure, with the assistance of project consultants. In case of grievances that are immediate and urgent in the perception of the complainant, the contractor, and officials of PIU with assistance from construction management and supervision consultants (CMSC) and CAPPC on-site will provide the most easily accessible or first level of contact for quick resolution of grievances. Contact numbers and names of the concerned PIU safeguard and safety officer, contractors, CAPPC and CMSC personal will be posted at all construction sites at visible locations.

- (i) **1st level grievance.** The contractors, PIU Executive Engineer (EE)/Assistant Engineer (AE) designated as safeguard and safety officer (social and environment), CMSC (safeguard staff) and CAPPC can immediately resolve issues on-site, in consultation with each other and will be required to do so within 7 days of receipt of a complaint/grievance. If required, city level monitoring committee (CLMC)¹² will be involved in resolution of grievances at the 1st level.
- (ii) **2nd level grievance.** All grievances that cannot be redressed within 7 days at field/PIU level will be brought to the notice of Zonal PIU headed by Additional Chief Engineer (ACE). The ACE at zonal PIU will resolve the grievance within 7 days of receipt of complaint/grievance in discussion with the ASO, field level PIU, CMSC, CAPPC and the contractor.

⁸ RUSDP piloted an online application based live GRM counter for resolution of public grievances over and above the usual process of grievance registration and redressal. This app based GRM - "RUIDP Smart Check" is available at Google play store (free of cost) and is operational. The RUIDP Smart Check "app" was launched in Pali town in July 2017 and is proposed to be scaled up in RSTDSP project towns. For persons without access to the application, the traditional channels will continue to be available.

⁹ It is suggested for each PIU to have a dedicated whatsapp group for registration of grievances and receipt of quick feedback, to be followed by more formal communication.

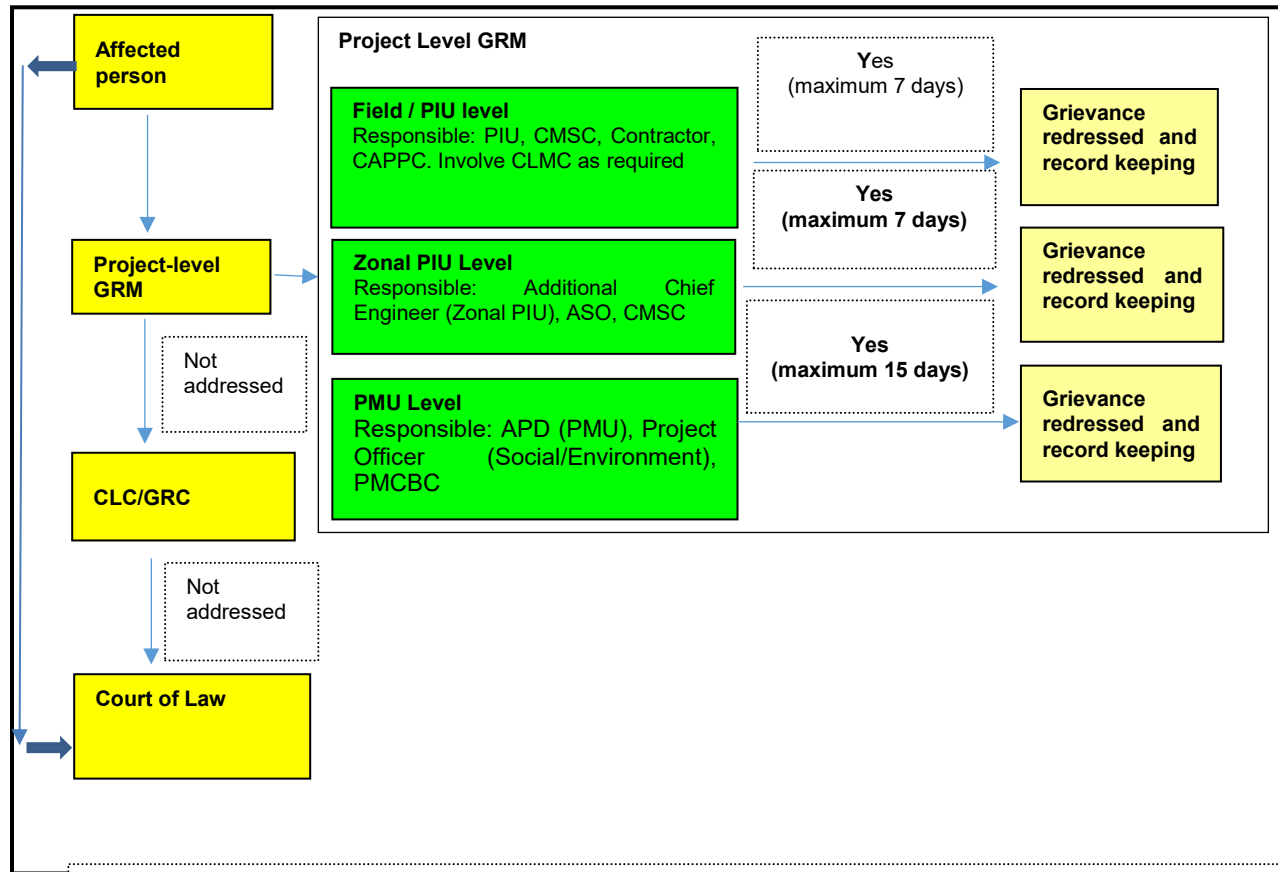
¹⁰ Project contractors in all project towns will have a toll-free number with specific working hours for registration of grievances related to RSTDSP.

¹¹ <http://www.sampark.rajasthan.gov.in/RajSamWelcome.aspx>

¹² The CLMC has been formed at the town/city level for planning and monitoring of work, resolve issues related to departmental coordination etc. It is headed by Commissioner/Executive Officer ULB (Chairman) and city engineer of public health engineering department (PHED), public works department (PWD) and head of PIU acting as Member Secretary.

- (iii) **3rd level grievance.** All the grievances that are not addressed by Zonal PIU within 7 days of receipt will be brought to the notice of the PMU. Depending on the nature of grievance, the Project Officer (Social/Environment) at PMU will resolve the grievance within 15 days of receipt of grievance with necessary coordination of Zonal PIU and CMSC and guidance/instruction of Additional Project Director (APD-PMU).
- (iv) Grievances not redressed through this process within/at the project level within stipulated time period will be referred to the CLC/GRC, which has been set up.¹³ In its role as a GRC, the CLC will meet whenever there is an urgent, pending grievance. Other grievances can be discussed during its regular meetings. Zonal PIU will inform the CLC regarding any grievances required to be resolved urgently. The GRC will resolve the grievance within 15 days of receiving the complaint. In case of any indigenous peoples impacts in subprojects, the CLC/GRC must have representation of the affected indigenous people community, the chief of the tribe or a member of the tribal council as traditional arbitrator (to ensure that traditional grievance redress systems are integrated) and an NGO working with indigenous people groups.
- (v) The multi-tier GRM for the project is outlined below (Figure 02), each tier having time-bound schedules and with responsible persons identified to address grievances and seek appropriate persons' advice at each stage, as required. The GRC will continue to function throughout the project duration.

¹³ City Level Committee (CLC)/grievance redress committees (GRCs) has been constituted for each town/city under the Chairmanship of District Collector to provide overall subproject guidance and "to sort out issues and remove hindrances, if any". CLC formed at city-level/district level with members composed of: District Collector as Chairperson, and following as members: ULB Commissioner/Mayor/Chairman; Deputy Mayor/Vice Chairman ULB; Chairman / Secretary Urban Improvement Trust (UIT); Head of Zonal/field level PIU as Member Secretary; one representative each from relevant government departments as appropriate (PWD/PHED/Town Planning Department etc.). All CLCs in their role as GRCs will have at least one-woman member/chairperson. In addition, for project-related grievances, representatives of affected persons, community-based organizations (CBOs), and eminent citizens will be invited as observers in GRC meetings. The concerned Member of Parliament (MP) and Member of Legislative Assembly are also part of the CLC.

Figure 2: Grievance Redress Mechanism-RSTDSP

Note: APD = Additional Project Director, ASO = Assistant Safeguards Officer, CAPPC = community awareness and public participation consultant, CMSC = construction management and supervision consultants, CLC = city level committee, CLMC = city level monitoring committee, GRC = grievance redress committee, PIU = project implementation unit, PMU = program management unit, PMCBC = project management and capacity building consultant.

39. The project GRM notwithstanding, an aggrieved person shall have access to the country's legal system at any stage, and accessing the country's legal system can run parallel to accessing the GRM and is not dependent on the negative outcome of the GRM. In case of grievance related to land acquisition, resettlement and rehabilitation, the affected persons will have to approach a

legal body/court specially proposed under the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act (RFCTLARRA), 2013.¹⁴

40. People who are, or may in the future be, adversely affected by the project may submit complaints to ADB's Accountability Mechanism. The Accountability Mechanism provides an independent forum and process whereby people adversely affected by ADB-assisted projects can voice, and seek a resolution of their problems, as well as report alleged violations of ADB's operational policies and procedures. Before submitting a complaint to the Accountability Mechanism, affected people should make an effort in good faith to solve their problems by working with the concerned ADB operations department. Only after doing that, and if they are still dissatisfied, should they approach the Accountability Mechanism¹⁵.

41. PMU, RUIDP, Jaipur has issued a letter no. 11367 dtd. 18.12.2020 to all PIUs to establish and explain the GRM under RSTDSP and nomination of required officers at first level in PIUs. Copy of this letter is attached as **Appendix 12**.

42. Grievance Redress Committee is set up under RSTDSP at all levels. Details of GRC members are given in **Table 24-**

¹⁴ The Authority admits grievance only with reference to the Land Acquisition and R&R issues under the RFCTLARRA, 2013.

¹⁵ Accountability Mechanism. <http://www.adb.org/Accountability-Mechanism/default.asp>.

Table- 24: Details of GRC Members

GRC Members (Grievance redressal committee members)								
Town Name	1st Level GRC Members					2nd Level GRC Members	3rd Level GRC Members	
	Contractor (Project Manager)	Executive Engineer, PIU	Safeguard and Safety Officer (SSO), PIU	Environment Safeguard-, CMSC	Social Safeguard, CMSC	Zonal Additional Chief Engineer	Project Officer, Environment , PMU	Project Officer, Social, PMU
Ratangarh	Mr. Brijesh Kumar Chaturvedi	Mr. R.D. Garg	Om Prakash Bairwa	Dr. Mahaveer Saini	Mr. Rajeev Sharma	Mr. Sunil Vyas (S.E) Additional Charge of A.C.E., Zone-Jodhpur	Ms. Poornima Mahlawat Project Officer	Mr. Shiv Ratan Parik
Fatehpur	Mr. Madheshwar Kumar	Sh. Devendra Saini	Mr. Devendra Saini.					
Laxmangarh	Mr. Madheshwar Kumar	Sh. Devendra Saini	Mr. Surendra Godra					
Sardar shahar	Mr. Sandeep Chahar	Mr. Manoj Mittal	Mr. Manoj Mittal					
Abu Road	Mr. Pankaj Biswas	Mr. Mahendra Samdhani	Mr. Sunil Vishnoi					
Sirohi	Mr. C.P. Rajesh	Mr. Ashok Kadwasara	Mr. Ashok Kadwasara					
Pratapgarh	Mr. Lalit Trivedi	Mr. Ashok Kumar Jangid	Mr. Madan Lohar					
Banswara	Mr. Mrugank D Trivedi	Mr. Ashok Kumar Jangid	Mr. Ashok Kumar Jangid					
Kuchaman	Mr. Shahnavaz Hussian	Mrs. Pratibha	Mrs. Pratibha	Mr. Vardan Srivastava	Mr. Nasir Hussain	Mr. Mohan Lal Saini		
Ladnun	Mr. S.K.Singh	Mr. Deepak Mandan	Mr. Jitendra. Choudhary					
Makrana	Mr. S.K.Singh	Mr. Deepak Mandan	Mr. Shrikant Yadav					
Didwana	Mr. S.K.Singh	Mr. Deepak Mandan	Mr. Jitendra. Choudhary					
Khetri	Mr. Anil kumar Meena	Mr. Dinesh Kr Verma	Miss Sanju Pooniya					
Mandawa	Mr. Karri Bhujanga Rao	Mr. Dinesh Kr Verma	Miss Sanju Pooniya					

43. During October 2023 to March 2024, no grievances related to environment was received Status of grievances during reporting period.

12. CONTRACTORS' ENVIRONMENTAL, HEALTH AND SAFETY (EHS) PERFORMANCES

44. Contractors of different packages have deputed EHS Engineers in their respective towns for compliance of EHS and safeguard issues at site. Contractors have provided workers camps with sufficient and adequate facilities. Proper barricades and signage are being provided during pipe laying works in general. Contractors are also observing different important days (safety week, world environment day, labor day etc.) at their respective sites to recognise the importance of Environment, Health and Safety and making awareness among workers. Various types of environmental, health and safety activities and worker's welfare activities like workers health check-ups, blood donation camps, plantations, social works, safety orientations, COVID-19 awareness and training are also performed by contractors time to time apart from project related EHS compliances. Contractors' performance of EHS is monitored by safeguard specialists/support of PMCBC/CMSCs during their site visit and contractors also submit monthly and quarterly reports of various EHS activities at sites to PIU/CMSC/PMCBC.

45. During reporting period various such activities were performed by different contractors and illustrations are attached as **Appendix 8 and 9** with this report.

46. Site-Specific Environment Management Plans (SEMP) for all towns in pre-construction phase, are already approved and being followed in construction works. These SEMP's also include Solid Waste and Spoil Management Plan, Traffic Management Plan, Health and Safety Plans, Workers camps plans, COVID-19 prevention and control plan, Asbestos Management Plan etc.

47. **Prevention and control measures adopted by contractors during COVID-19 pandemic.** Due to pandemic of COVID-19 there is risk of infection to workers and staff while working at sites, therefore there was requirement to follow COVID appropriate behaviour at all work sites and offices, for which RUIDP prepared guidelines for COVID-19 and issued to all PIUs and contractors with the instruction to strictly follow these guidelines during construction works at sites and all offices of PIU/consultants/contractors. Contractors followed all the guidelines as specified by RUIDP and Governments and prepared SOP for construction activities.

48. All the contractors have prepared separate plan for prevention and control of COVID-19 during pandemic and after resume of works at site. Purpose of these documents are to lay down procedures to be followed during pandemic conditions as per guidelines issued by State Government & local authorities. RUIDP directions, contractors SOPs, their efforts and activities for prevention and control measures for COVID-19; adopted by contractors are reported in **Appendix 10**.

49. **Accident and Incident at project sites.** Contractors are implementing the safety measures at all project sites as per best practices, but there are always chances of accident and incident during construction works. Contractors are reporting accident, incident, near miss and first aid cases on quarterly basis to PIUs/consultants. A report on accident and incident cases during reporting period is attached as **Appendix 13**.

13. SUMMARY OF KEY ISSUES AND REMEDIAL ACTIONS

A. FINDINGS AND KEY ISSUES

50. Up to March 2024, contracts for all 14 project towns (under Trench I sub projects) have been awarded (Ratangarh, Laxmangarh and Fatehpur under single contract as package, no. RSTDIP/RTG-FTP-LXG/01, Sardarshahar – package no. RSTDIP/SRD/01, Abu Road and Sirohi under single contract as package no. RSTDIP/SHR-ABR/01, Pratapgarh; package no. RSTDIP/PRT/01, Banswara; package no. RSTDIP/BNS/04, Khetri; package no. RSTDIP/KTR/03, Mandawa; package no. RSTDIP/MDW/03, Kuchaman; package no. RSTDIP/KMN/02, Didwana, Makrana and Ladnu under single contract as package no. RSTDIP/LDN-DID-MKN/01. Apart from this, contracts for 13 FSTPs (under Trench- I saving sub projects) in 2 clusters have also been awarded as RSTDSP/NKT-SHR-BAN-JOB/01 (FSSM Cluster 01) and as RSTDSP/FSTP-9 Towns/03 (FSSM Cluster 02). Contractor is mobilized in the both packages of FSTP towns and a physical progress of about 10% has been achieved up to the reporting period and major work undertaken during the reporting period being construction of boundary wall of FSTPs.

51. IEEs of all 14 project towns have been approved by ADB. IEEs were further updated due to amendments in project scope or location and submitted to ADB, approved by ADB and uploaded on ADB and RUDSICO_EAP portals. However, the Service Improvement Plan (SIP) for the all subproject towns is approved and IEE of all 14 subproject towns Ratangarh, Laxmangarh, Fatehpur, Sardarshahar, Abu Road, Sirohi, Pratapgarh, Banswara, Kuchaman, Ladnu, Didwana, Makrana, Mandawa & Khetri are updated as per approved SIP scope and updated IEEs are approved by ADB and uploaded on ADB and RUDSICO_EAP portals.

52. Contractors have been oriented in pre-construction stages by PMCBC/CMSC environment specialists about requirements of ADB safeguard policy and other contractual and legal compliances. Periodical refresher trainings and orientations is required during regular site visits to ensure compliance of EMP.

53. All the required legal obligations are being fulfilled in the project. In compliance to country's legal requirements for STPs, WTPs & FSTPs; Consent to Establish (CTE) is being obtained from Rajasthan State Pollution Control Board (RSPCB) in all project towns. There are total 19 STPs and 3 WTPs proposed for new construction in all 14 towns (Trench-I Subprojects) and CTE for all of them is obtained till this reporting period and CTO for Ratangarh, Fatehpur, Pratapgarh & Sirohi towns are obtained. Up to March 2024, total 22 applications for CTEs for STPs and WTPs were submitted out of which 22 CTEs have been issued by RSPCB and 4 applications for CTO for STPs were submitted out of which 4 CTOs have been issued by RSPCB. There are existing 3

STPs proposed for upgradation and 2 WTPs proposed for rehabilitation; which will require consent to establish and consent to operate. Consent to Establish has also been obtained from Rajasthan State Pollution Control Board for 3 STPs proposed for upgradation and 2 WTPs proposed for rehabilitation. CTE for recently awarded FSTP packages includes construction of 13 FSTPs under 2 clusters (Trench-I Saving subprojects). Of these two clusters, one cluster consists 4 towns namely Bandikui, Neem ka thaana, Shahpura(Bhilwaara) and Jobner and other cluster consist 9 towns namely Bari, Deeg, Pilibanga-Suratgarh, Shahpura- Bhilwara, Bhinder-Kanor, Gangapur, Bhawani Mandi, Dausa and Tijara. CTE for these FSTPs will be required to obtain prior to construction. CTEs for 13 new FSTP will be applied before start of construction works. CTE for Dausa, Neem Ka Thana, Bari, Jobner, Bandi Kui, Deeg, Bhawani Mandi, Bhinder-Kanode & Tijara FSTPs are obtained and for Shahpura (Bhilwara),Gangapur (Bhilwara) & Pilibanga-Suratgarhare are applied to RSPCB during this reporting period.

54. Environmental monitoring (baseline) of ambient conditions (air, Noise, Soil and water) has conducted in all project towns at pre-construction stage. Quarterly environmental monitoring is required to be conducted throughout the construction period in all project towns as per EMP.

55. All precautionary measures for prevention and control of COVID-19 is being undertaken in all projects as per RUIDP, State of Rajasthan and Union Government's guidelines.

B. REMEDIAL MEASURES

56. Following remedial measures and action plan have developed to address the issues of concerns raised in this report.

Table 25: Remedial Measures and Action Plan

Pending Issue	Proposed Remedial Measure	Responsibility	Time Frame
Pending clearances/ consents from regulatory agencies	Follow up for pending Forest clearance for some stretch of raw water rising main at Abu Road: - PIU has submitted application for forest clearance. - Stage one permission is granted. - Required Fee deposited with forest department. - Observations made by forest department are complied and DCF, Sirohi vide his letter no. 1207 dated 12.04.2024 requested DCCF, Jodhpur to grant Working Permission. - Working permission is awaited.	PIU/CMSC-2	15.06.2024

APPENDIX 1: SELECTED PHOTOS OF SITE VISITS AND CONSTRUCTION WORKS**Sirohi Town (Site Visited on dated 15.12.2023 to 18.12.2023)****Pipe laying and Road Breaking works, Sahrdulpura Market Area, Sirohi**

Workers working without helmet and shoe



PPE's Has been Provided



Good Practice; Required PPE's and secondary Protection has been Provided

Abu Road (Site Visited on dated 21.02.2024)**Water Treatment Plant 10.0 MLD & STP 6.9 MLD at Santpur, Abu Raod**

Warning sign board were broken and not installed properly	Warning signage provided at working site
	
The mobile toilet was not in condition to use at 2.3 MLD STP.	Mobile toilet has been shifted to store yard for its use as per requirement.
	
Workers working at 2.3 MLD STP Manpur were without masks helmets shoes and jackets.	Required PPEs were provided to workers working at Site
Ratangarh Town (Site Visited on dated 24.02.2024)	
Near Ram Chandra Park, Pipe Laying Work, Ratangarh	
	
It was observed that Project information Board and barricading is not available at the working site.	EHS officer make ensure that all workers should provide welfare facilities at site with neat and clean facilitated area.



It was observed that some of worker is working without Safety helmet ,safety Shoes and Reflective jacket at the site



PPEs provided to all workers.



It was observed that Electricity is taken from nearby house for Road Breaker machine

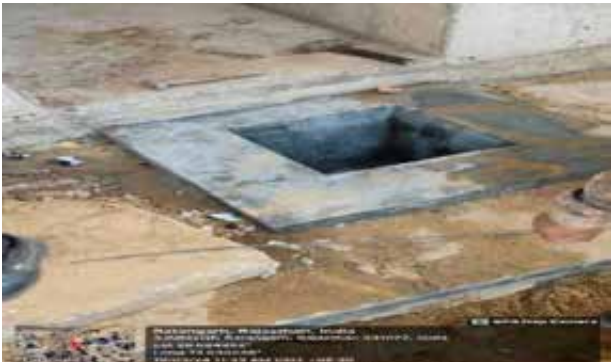


DG set has been provided for for Road Breaker machine

Sardarshahar Town (Site Visited on dated 05.03.2024)

1.6 MLD STP PLANT ,SARDARSHAHAR



Worker was not wearing bar cutting safety face shield helmet at working site	Safety face shield helmet is provided to worker.
	
Reinforcement Steel bar is spread around the work place.it may cause accident.	Housekeeping done
	
Poor Housekeeping on site at CWR	Proper Housekeeping maintained
Ratangarh Town (Site Visited on dated 19.03.2024)	
6.1 MLD STP ,Gaushala, Ratangarh	
	
It was observed that Chamber/earth pit is open at many places.	Open chamber has been covered with plate.

Banswara Town (Site Visited on dated 30.07.2023)

	
Steel was found scattered on the site during visits	Proper storage of steel done
	
sand found uncovered on Site During visits	Proper sand cover provided

APPENDIX 2: SAMPLE PHOTOGRAPHS OF CONSULTATIONS**Photos of Consultations with public in Sirohi towns on dated 12.12.2023**

Public Consultation in Sirohi

Consultation Sheet Sirohi

Public Consultation Form – RUIDP (Phase-4)				
Town: Sirohi		Name of the person doing public consultation: Amit Chauhan.		
		Designation: Ess. cmc-II AU, Sirohi RUIDP		
		Mobile Number: 7683044085.		
Site/Zone: Raj Colony.				Date: 12/12/2023
Area: Sirohi.				
Sr. No	Name	Contact No	Issue Discussed	Signature
1.	Narender Chauhan	6392125672	Working on RUIDP 1st	[Signature]
2.	Mohsin Khan	9813245672	ISSUE of RUIDP 1st	[Signature]
3.	Surender Singh Dabi.	9716323434	"	[Signature]
4.	Priyanka Deora	7073752430	"	[Signature]
5.	Rani Dabi.	—	"	[Signature]
6.	Ishwar Singh	9462562025	"	[Signature]
7.	Pyarelal	9950881660	"	[Signature]
8.	Krishna Kumar	962873748	"	[Signature]

Photos of Consultations with Public in Ganesh colony, Abu Road dated 21.02.2024**Public consultation in Ganesh colony, Abu Road****Attendance Sheet of Consultation**

Public Consultation Form – RUIDP (Phase-4)				
Town: Abu Road		Name of the person doing public consultation: Amit Chauhan		
		Designation: E.S.S. CMSC-II, RUIDP, PIU, Sirahi.		
		Mobile Number: 7683044085		
Site/Zone: Ganesh Colony				Date: 21. Feb - 2024
Area: Ganeshnagar				
Sr. No	Name	Contact No	Issue Discussed	Signature
1.	Fardeen	7476646126	Awareness of ISSW Project.	Fardeen
2.	Swami prasad	9983614468	Regarding ISSW Project.	Swami
3.	Laccharam Parihar.	9106716534	Informing About RUIDP	Laccharam
4.	Shyam Kumar	8426094331	Awareness about ISSW Project	Shyam
5.	Lalchand.	8529676294	Awareness about RUIDP Project	Lalchand

Photos of Consultations with Public in Main Ginani and Ward No.4 HSC works in Ratangarh dated 26.02.2024



Photograph of Public Consultation at Main Ginani, HSC Work



Photograph of Public Consultation at Ward No 04, HSC Work Near Link Road

PUBLIC CONSULTATION ATTENDANCE SHEET

PROJECT NAME: Water Supply & Sewerage project
work, Bilonagarh Date: 26/02/2024

S.NO	NAME	DESIGNATION	MOBILE NO.	SIGNATURE
	भवण कुमार			
	श्री हरिज		9460566188	दिनेशदास गुर्जर
	भवन्नाथ		9982342534	देव सैनी
	भागीरथ		954968679	भवन्नाथ
	बैनी प्रसाद		9667191670	भागीरथ
	गोमन्चन्द		9929703876	बैनी प्रसाद
	श्री लक्ष्मण चन्द		9414954892	गोमन्चन्द
	अब्दुल रहमान		6367347230	रहीम
	अब्दुल गफार		8875604238	
	अय्युब खां		6375214030	सिद्दीक
	हरि प्रसाद		9549121841	पासे
	चम्पा देवी			
	आगरमल प्रजापत		8741013413	सुखीला
	ललित चारण		8504064712	डा. ललित
	सावित्री		6375024444	डा. सावित्री
	भवन्नाथ जोशी		1	डॉ. भवन्नाथ
	पुनर्नाथ		9079392122	पुनर्नाथ
	पुनर्नाथ		9588912481	पुनर्नाथ

[Signature]
26/02/2024

Photos of Consultations with Public in Gaffar Gali No. 3 in Sardarshahar dated 05.03.2024

Discussions with Local Public of ongoing project work activity and get their feedback on any work related grievance at Gaffar gali no. 03

Attendance Sheet of Consultation**PUBLIC CONSULTATION**

Name of Person: Ugrasen Kumar, Environment Safeguard Support, RUIDP, Ratangarh

Town: SARDARSHAHAR

Place: GAFFAR GALI NO-03

Date: 05/03/2024

S.no	Name	Contact no.	Issues Discussed	Signature
01.	Jashraj	8503916958	Work of RUIDP 2.13.7	शशि नरेश
02.	Rajesh	7976023093	Work of RUIDP 2.13.7	शशि नरेश
03.	Radhika Prakash	9024230361	"	शशि नरेश
04.	Babul	8887650357	"	शशि नरेश
05.	Sukla Ji	9672356723	"	-
06.	Pankaj Ji	8945826433	Work of RUIDP 2.13.7	-
07.	Ronam	7014397085	"	शशि नरेश
08.	Arvind Ji		"	-
09.	Chhaya Lal Ji	8054377005	"	ch
10.	Harin Narayan	8049338213	"	Harin
11.	Jash Jati	9413203919	Work of RUIDP 2.13.7	-
12.	Ugrasen Kumar	8689429952	"	Ugrasen

Ugrasen Kumar
05/03/2024

Photos of Consultations with Public Ratangarh dated 14.03.2024**Public Consultation AT WARD NO. 08, HSC WORK****Public Consultation at ward no and main Ginani**

Attendance Sheet of Public Consultation, Ratangarh

PUBLIC CONSULTATION
 Name of Person: Ugrasen Kumar, Environment Safeguard Support, RSTDS, Ratangarh
 Town: Ratangarh
 Place: Main Ginani, Ward No 08
 Date: 14/03/2024

S.no	Name	Contact no.	Signature (Issue Discussed)	Signature
①	HARI SHARMA CHODHARI	9825312579	[Signature]	[Signature]
②	YASUB COURESHI	865712144	[Signature]	"
③	TAREAN COURESHI	985050503	[Signature]	"
④	KHUSHI MOHAMMAD COURESHI	-	[Signature]	"
⑤	YASUB CHODHARI	-	[Signature]	"
⑥	ALIAH BAI COURESHI	-	[Signature]	"
⑦	TAYUB YASUB COURESHI	-	[Signature]	"

[Signature]
14/03/2024

Public Consultation At Ward No 08

PUBLIC CONSULTATION
 Name of Person: Ugrasen Kumar, Environment Safeguard Support, RSTDS, Ratangarh
 Town: Ratangarh
 Place: Near Main Ginani
 Date: 14/03/2024

S.no	Name	Contact no.	Issues Discussed	Signature
01.	श्री. शशि शर्मा	9850315722	Water & Power LIT	[Signature]
02.	श्री. शशि शर्मा	-	"	[Signature]
03.	श्री. शशि शर्मा	9927425059	"	[Signature]
04.	श्री. शशि शर्मा	-	Water & Power LIT	[Signature]
05.	श्री. शशि शर्मा	967266718	"	[Signature]
06.	श्री. शशि शर्मा	892313453	"	[Signature]
07.	श्री. शशि शर्मा	-	Water & Power LIT	[Signature]
08.	श्री. शशि शर्मा	-	"	[Signature]
09.	श्री. शशि शर्मा	-	"	[Signature]
10.	श्री. शशि शर्मा	9650770078	Water & Power LIT	[Signature]

[Signature]
14/03/2024

Public Consultation At Near Main Ginani

Photos of Consultations with Public in Mandawa dated 10.03.2024



Consultation Sheet

RUIDP Construction Management & Supervision Consultancy-01
A Unit of RUDSICO
Consultation Sheet

Project town: - Mandawa - Venue: - Ward 10 Date: 27.1.03.2024 Time: - 10:30 AM

Issues: - 1. Door to Door Contact 2. Site Visit
3. Project Benefits 4. Water Connection
5. Roadway works issue 6.

S.N.	Name	Sex		Designation	Contact No.	Signature
		Male	Female			
1	सुज्जार		✓	वाडियासी	8104849351	
2	मोहिनी देवी		✓	"	"	
3	किरनी देवी		✓	"	"	
4	भरत कुमार	✓		"	8299893114	Bharat Kumar
5	रमेश कुमार	✓		"	"	
6	शुभन देवी		✓	"	9589113598	Shuman
7	गोकुल	✓		"	"	गोकुल
8	राजचन्द्र	✓		"	"	Rajendra
9	जगदीश कुमार	✓		"	"	Jagan
11						
12						
13						
14						
15						

APPENDIX 3: COPIES OF ENVIRONMENTAL CLEARANCES AND PERMITS**A. Details of Consent to Establish (CTEs) and Consent to Operate (CTOs) obtained during Reporting Period (October 2023 to March 2024).**

S.No.	Component and Town Name	Validity	Reported in which SEMR
1.	5 MLD STP, Near Nehru Nagar, Sirohi	CTO obtained and valid from 28.06.2023 to 31.05.2028	Reporting in Current SEMR (October 2023 to March 2024)
2.	7 MLD, STP, Pratapgarh	CTO obtained and valid up to 31.08.2028	Reporting in Current SEMR (October 2023 to March 2024)
3.	23 KLD FSTP, Bari	CTE obtained and valid from 23.11.2023 to 31.10.2028	Reporting in Current SEMR (October 2023 to March 2024)
4.	12 KLD FSTP, village Pachpahaad, Jhalawar, Bhawani Mandi	CTE obtained and valid from 23.11.2023 to 31.10.2028	Reporting in Current SEMR (October 2023 to March 2024)
5.	8 KLD FSTP, Gopalpura Village, Kanor	CTE obtained and valid from 19.01.2024 to 31.12.2028	Reporting in Current SEMR (October 2023 to March 2024)
6.	15 KLD FSTP, Near old Chungi, Naka/Malipura Road Deeg	CTE obtained and valid from 02.01.2024 to 31.12.2028	Reporting in Current SEMR (October 2023 to March 2024)
7.	4 KLD FSTP, Pratappura village, Jobner	CTE obtained and valid from 07.12.2023 to 30.11.2028	Reporting in Current SEMR (October 2023 to March 2024)
8.	12 KLD FSTP, Ranasar Road Neem Ka Thana	CTE obtained and valid from 02.11.2023 to 31.10.2028	Reporting in Current SEMR (October 2023 to March 2024)
9.	16 KLD FSTP Abaneri road, Bandikui	CTE obtained and valid from 07.12.2023 to 30.11.2028	Reporting in Current SEMR (October 2023 to March 2024)
10.	12 KLD FSTP, village Elaka, Tijara	CTE obtained and valid from 09.01.2024 to 31.12.2028	Reporting in Current SEMR (October 2023 to March 2024)
11.	12 KLD FSTP, Pratappura near Ramnivas Bagh Shahpura (Jaipur)	CTE will be applied after Land allotment is done	Will be Reporting in Upcoming SEMR (April to September 2024)
12.	12 KLD FSTP, Shahpura (Bhilwara)	CTE applied on dated 12.12.2023	Will be Reporting in Upcoming SEMR (April to September 2024)
13.	5 KLD FSTP, Meluni Khera village, Shada tehsil, Gangapur (Bhilwara)	CTE applied on dated 16.12.2023	Will be Reporting in Upcoming SEMR (April to September 2024)
14.	14 KLD FSTP, Lakhuwali Road at Kila number 16-20, Murabba number 21, Patthar number 26/313, PBN Chak, Pilibanga	CTE applied status pending at RSPCB	Will be Reporting in Upcoming SEMR (April to September 2024)

B. Details of other permissions/NOCs

S.No.	Type of permission/NOCs and Town Name	Reported in which SEMR
1	Permission obtained for Railway crossing vide letter no. W/220/1 dated 18.02.2022 at Abu Road.	SEMR (April 2022 to September 2022)
2	Permission obtained for Railway crossing from Railway department vide letter no. 639/Pipe Xing/Km.323/8-9/RTGH/2021/12 dated 27.12.2021 at fatehpur.	SEMR (April 2022 to September 2022)
3	Demand Draft Deposited to PWD for Road cutting permission at Sirohi town & work started by contractor as advised by PWD.	SEMR (April 2022 to September 2022)
4	National Highway Crossing: Permission obtained at Pratapgarh for National Highway 113 crossing vide Letter No. no.RW/JA/RJ/PS/utility//2021/464/302-305 dated 29.04.2022 from Ministry of Road Transport & Highways	SEMR (April 2022 to September 2022)
5	Permission for National Highway 113 crossing at Banswara has been obtained vide letter no/ 2021/22/1006 dated 21.01.2022	SEMR (April 2022 to September 2022)
6	Permission obtained for SH crossing at Makrana town from PWD vide letter no. PIU/ PPP /Laxmangarh/ MMB/Utility/21-22/D-601 dated 11.01.2022	SEMR (April 2022 to September 2022)
7.	Permission obtained for Railway crossing vide letter no. : NWR-JU-2022-WL-263 dated 24.9.2022 at Makrana.	SEMR (October 2022 to March 2023)

C. Details of Environmental clearances/permission issued in this reporting period**Consent to Operate (CTO) for 5.0 MLD STP, Sirohi**

Regional Office Sirohi
Rajasthan State Pollution Control Board
 Plot No 68, Shanti Nagar, Main Highway Road, Sirohi, Rajasthan-3
 Phone: 02972-294161

**Registered****File No :** F(Tech)/Sirohi(Sirohi)/7968(1)/2023-2024/1225-1226**Date:** Jan 8 2024 6:48PM**Order No:** 2023-2024/Sirohi/10421**Unit Id :** 127258**M/s Sewage Treatment Plant****Commissioner, Nagar Parishad, Near Bus Stand , Sirohi**

Sub: Consent to Operate under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974.

Ref: Your application for Consent to Operate dated 28/06/2023 and subsequent correspondence.

Sir,

Consent to Operate under the provisions of Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) as amended to date and rules & the orders issued thereunder **is hereby granted** for your **STP plant** situated at **Nehru Nagar, Near Tulsi Nagar Sirohi Sirohi Tehsil:Sirohi District:Sirohi** , Rajasthan, subject to the following conditions:-

- 1 That this Consent to Operate is valid for a period from **28/06/2023** to **31/05/2028**.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

Particular	Type	Quantity with Unit
SEWAGE TREATMENT PLANT	Activity	5.00 MILLION LITRES/ DAY

- 3 That this Consent to Operate is for existing plant, process & capacity and separate Consent to Establish/Operate is required to be taken for any addition / modification / alteration in process or change in capacity or change in fuel.
- 4 That the quantity of effluent generation along with mode of disposal for the treated effluent shall be as under:



Regional Office Sirohi
Rajasthan State Pollution Control Board
 Plot No 68, Shanti Nagar, Main Highway Road, Sirohi, Rajasthan-307001
 Phone: 02972-294161

Registered

File No : F(Tech)/Sirohi(Sirohi)/7968(1)/2023-2024/1225-1226

Order No: 2023-2024/Sirohi/10421

Date: Jan 8 2024 6:48PM

Unit Id : 127258

Type of effluent	Max. effluent generation (KLD)	Recycled Qty of Effluent (KLD)	Disposed Qty of effluent (KLD) and mode of disposal
Domestic Sewage	5000.000	NIL	5,000.000 On Land For Plantation/Horticulture after adequate treatment

- 5 That the Domestic Sewage shall be treated before disposal so as to conform to the standards prescribed under the Environment (Protection) Act-1986 for disposal **Into Inland Surface Water**. The main parameters for regular monitoring shall be as under:

Parameters	Standards
pH Value	Between 5.5 to 9.0
Oil and Grease	Not to exceed 10 mg/l
Phosphate as P	Not to exceed 1.0 mg/l
Biochemical Oxygen Demand (3 days at 27°C)	Not to exceed 10 mg/l
Chemical Oxygen Demand	Not to exceed 50 mg/l
Fecal Coliform	not to exceed 230 MPN/100 ml
N total	10 mg/l
Total Suspended Solids	Not to exceed 20 mg/l

- 6 In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/L.
- 7 That fee for this consent to Operate has been deposited on the basis of estimated project cost of Rs. 2250 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount.
- 8 That no treated/untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/ other gainful purposes.



Regional Office Sirohi
Rajasthan State Pollution Control Board
 Plot No 68, Shanti Nagar, Main Highway Road, Sirohi, Rajasthan-307001
 Phone: 02972-294161

Registered

File No : F(Tech)/Sirohi(Sirohi)/7968(1)/2023-2024/1225-1226

Order No: 2023-2024/Sirohi/10421

Date: Jan 8 2024 6:48PM

Unit Id : 127258

- 9 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 10 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 11 That the unit shall undertake plantation in two rows of suitable species all along the periphery of the site of the STP to control foul smell.
- 12 That above stated effluent standards are subject to the Hon'ble NGT order dated 30/4/2019 in matter of O.A. no 1069/2018 Nitin Shankar Deshpande Vs Union of India and Ors
- 13 That efforts should be made to reuse the treated sewage to the maximum possible extent and minimize its discharge. A network of pipelines should be laid from the treated sewage collection tank to fields for utilisation.
- 14 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 15 That, notwithstanding anything provided hereinabove, the State Board shall have the power and reserves its right, as contained **under Section 27(2) of the Water Act** to review anyone or all of the conditions imposed here in above and to make such variation as it deems fit for the purpose of **Water Act**.
- 16 That the grant of this **Consent to Operate** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 17 That the grant of this **Consent to Operate** shall not, in any way, adversely affect or jeopardize the legal proceeding, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Water Act or the Rules made thereunder.
- 18 That the Project Proponent shall comply with provisions of the E-waste (Management) Rules, 2016 and ensure that e-waste generated by them is channelized through collection centre or dealer of authorized producer or dismantler or recycler or through designated take back service provider of the producer to authorized dismantler or recycler.
- 19 That the Project Proponent shall maintain record of e-waste generated by them in Form-2 and make such records available for scrutiny by the Board.
- 20 That the Project Proponent shall file annual returns in Form-3, to the Board on or before the 30th day of June following the financial year to which that return relates.



Regional Office Sirohi
Rajasthan State Pollution Control Board
Plot No 68, Shanti Nagar, Main Highway Road, Sirohi, Rajasthan-307001
Phone: 02972-294161

Registered

File No : F(Tech)/Sirohi(Sirohi)/7968(1)/2023-2024/1225-1226

Date: Jan 8 2024 6:48PM

Order No: 2023-2024/Sirohi/10421

Unit Id : 127258

- 21 That the transportation of e-waste shall be carried out as per the manifest system whereby the transporter shall be required to carry a document (three copies) prepared by the sender, giving the details as per Form-6.
- 22 That the Project Proponent shall comply with provisions of the Batteries (Management and Handling) Rules, 2001 (as amended) and submit half yearly returns (as bulk consumer, importer, auctioneer, recycler as the case may be) to the State Board as provided under Rule 10(2) (ii) of the Battery (Management and Handling) Rules, 2001 (as amended). In case the Project Proponent is not a bulk consumer even then the used batteries shall be returned to the authorized dealers or recyclers only.
- 23 That the record of batteries purchased and sold/ returned to registered dealers and/ or authorized recyclers shall be maintained and made available to the officers of the Board during inspections.

This **Consent to Operate** shall also be subject, besides the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The Project Proponent will comply with the provisions of the **Water Act** and to such other conditions as may, from time to time, be specified, by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Operate** and Project Proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

Yours sincerely,

Regional Officer[Sirohi]

(A): **Copy to:-**

1 Master File.

Regional Officer[Sirohi]

Consent to Operate (CTO) for 7.0 MLD STP, Pratapgarh

Regional Office Chittorgarh
Rajasthan State Pollution Control Board
 Near FCI Godown, Chanderia, Chittorgarh
 Phone: 01472-255077

**Registered****File No :** F(Tech)/Pratapgarh(Pratapgarh)/36(1)/2023-2024/573-574**Order No :** 2023-2024/Chittorgarh/12474**Date:** Feb 12 2024 6:39PM**Unit Id :** 128199**M/s Sewerage Treatment Plant for Pratapgarh City****Nagar Parishad , Pratapgarh**

Sub: Consent to Operate under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974.

Ref: Your application for Consent to Operate dated 20/09/2023 and subsequent correspondence.

Sir,

Consent to Operate under the provisions of Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) as amended to date and rules & the orders issued thereunder **is hereby granted** for your **7 MLD STP plant** situated at **7 MLD STP, Near Gupteshwar Mahadev Temple Pratapgarh Tehsil:Pratapgarh District:Pratapgarh**, Rajasthan, subject to the following conditions:-

- 1 That this Consent to Operate is valid for a period from **12/02/2024 to 31/08/2028**.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

Particular	Type	Quantity with Unit
Sewage Treatment Plant (STP)	Operation	7.00 MILLION LITRES/ DAY

- 3 That this Consent to Operate is for existing plant, process & capacity and separate Consent to Establish/Operate is required to be taken for any addition / modification / alteration in process or change in capacity or change in fuel.
- 4 That the quantity of effluent generation along with mode of disposal for the treated effluent shall be as under:

Page 1 of 6

Signature Not Verified

Digitally signed by Ashish Kumar
 Baurasi
 Date: 2024.02.13 17:20:44 IST
 Reason: Self Attested
 Location:





Regional Office Chittorgarh
Rajasthan State Pollution Control Board
 Near FCI Godown, Chanderia, Chittorgarh
 Phone: 01472-255077

Registered

File No : F(Tech)/Pratapgarh(Pratapgarh)/36(1)/2023-2024/573-574

Order No : 2023-2024/Chittorgarh/12474

Date: Feb 12 2024 6:39PM

Unit Id : 128199

Type of effluent	Max. effluent generation (KLD)	Recycled Qty of Effluent (KLD)	Disposed Qty of effluent (KLD) and mode of disposal
Domestic Sewage	7000.000	NIL	7,000.000 On Land For Plantation/Horticulture/Other uses

- 5 That the Domestic Sewage shall be treated before disposal so as to conform to the standards prescribed under the Environment (Protection) Act-1986 for disposal **Into Inland Surface Water**. The main parameters for regular monitoring shall be as under:

Parameters	Standards
pH Value	Between 6.5 to 9.0
Biochemical Oxygen Demand (3 days at 27°C)	Not to exceed 10 mg/l
Chemical Oxygen Demand	Not to exceed 50 mg/l
NH ₄ (N)	5 mg/l
N total	10 mg/l
Total Suspended Solids	Not to exceed 20 mg/l
Fecal Coliform (MPN per 100 ml)	Not to exceed 100

- 6 That this Consent to Operate is being issued for the operation of a Sewage Treatment Plant (STP) of capacity 7.0 MLD at 7 MLD STP, Housing Board Colony, Kila Road, Near Gupteshwar Mahadev Temple, Pratapgarh, Tehsil & District-Pratapgarh.
- 7 That water flow meters shall be provided at inlet of STP, Discharge point, recycling/reusing arrangement and suitable points to measure quantity waste water treated, discharged and recycled. Daily record of the same shall be maintained and to be submitted to the Board.

Signature Not Verified

Digitally signed by Ashish Kumar
 Baurasi
 Date: 2024.02.13 17:20:44 IST
 Reason: Self Attested
 Location:





Regional Office Chittorgarh
Rajasthan State Pollution Control Board
 Near FCI Godown, Chanderia, Chittorgarh
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File No : F(Tech)/Pratapgarh(Pratapgarh)/36(1)/2023-2024/573-574

Order No : 2023-2024/Chittorgarh/12474

Date: Feb 12 2024 6:39PM

Unit Id : 128199

- 8 That no treated/untreated effluent shall be discharged into any other water body and entire treated sewage shall be utilized in plantation/horticulture/other gainful purposes/provided to industries for gainful purposes.
- 9 That the sludge will be properly digested, de-watered and used as manure or disposed off in a scientific manner and a logbook of the same shall be maintained properly and shall be produced during inspection.
- 10 That the record of chlorination/dosage shall be properly maintained and produced during inspection.
- 11 That the whole STP and its unit operations shall be operated through SCADA system and no manual operation of the STP shall be practiced except in exceptional circumstances.
- 12 That the above-stated effluent standards are subject to the Hon'ble NGT order dated 30/4/2019 in the matter of O.A. no 1069/2018 Nitin Shankar Deshpande Vs Union of India and Ors.
- 13 That the unit shall provide prior intimation to this office if any maintenance operation of the STP is scheduled.
- 14 That the standards mentioned above are being imposed in reference to RSPCB H.O. order dated 08.08.2023 and 18.04.2019 and therefore, are subject to revision.
- 15 That the screening waste collected shall be disposed in compliance of Solid Waste Management Rules, 2016 and its amendments.
- 16 That all efforts should be made to reuse the treated sewage to the maximum possible extent and minimize its discharge. A network of pipelines should be laid from the treated sewage collection tank to fields for utilization.
- 17 That Online Continuous Effluent Monitoring System (OCEMS) for parameters namely pH, TSS, COD, BOD and flow meter shall be installed and online effluent monitoring data shall be connected and uploaded with the servers of State Board and Central Pollution Control Board submit compliance of the same within one month.
- 18 That the STP shall install and connect PTZ camera(s) with State Board's portal to visualize all the emission and effluent discharge point of the unit & maintain the recording of atleast one month with remote access to the Board and submit compliance of the same within one month.
- 19 That the guidelines prescribed by CPCB for OCEMS for effluents and Standard Operating Procedure (SOP) for Verification of Installation and Calibration of UV-Vis Dual Beam Scanning & Multipoint calibration mechanism technology-based OCEMS (Effluent) used in STPs shall be followed.
- 20 That regular maintenance and operation of the OCEMS with temper proof mechanism with facilities for calibration shall be ensured.

Page 3 of 6

Signature Not Verified

Digitally signed by Ashish Kumar
 Baurasi
 Date: 2024.02.13 17:20:44 IST
 Reason: Self Attested
 Location:





Regional Office Chittorgarh
Rajasthan State Pollution Control Board
 Near FCI Godown, Chanderia, Chittorgarh
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Order No: 2023-2024/Chittorgarh/12474

Date: Feb 12 2024 6:39PM

Unit Id : 128199

- 21 That the adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 22 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area and the record of the same shall be maintained and produced during inspection.
- 23 That the unit shall undertake plantation in two rows of suitable species all along the periphery of the site of the STP to control foul smell.
- 24 That a sign Board showing the name, address and capacity of the unit shall be provided and maintained at the entrance of the site.
- 25 That the industry shall ensure that noise from the unit does not exceed the prescribed noise standards for Industrial area i.e. 75 dB (A) Leq during day time and 70 dB (A) Leq during night time to meet the prescribed ambient noise standards. Day time is reckoned between 6 AM to 10 PM and night time is reckoned between 10 PM to 6 AM.
- 26 That the industry will comply with the standard as prescribe by MOEF Notification No. GSR/826(E) Dated 16.11.2009 with respect to National Ambient Air Quality Standards.
- 27 That this consent is valid subject to fulfillment of all the other statutory requirements in other Law/Act/Rules as applicable.
- 28 That industry shall submit application for renewal of consent atleast 60 days before expiry of this consent.
- 29 That the grant of consent shall not absolve the project proponent from making compliance of other statutory obligations prescribed under any other law or directions of courts or any other legal instrument for the time being in force.
- 30 That this consent issued on the basis of documents/ information uploaded/submitted by the applicant/ industry/ process/ project. The liability of veracity and correctness of the uploaded document/ information shall solely be of the applicant only. That this consent issued on the basis of documents/ information uploaded/submitted by the applicant/ industry/ process/ project. The liability of veracity and correctness of the uploaded document/ information shall solely be of the applicant only.
- 31 That any incorrect information submitted in the consent application form of declaration shall make the industry liable for legal action under Section 42 of the Water and Section 38 of the Air Act.
- 32 That this consent application shall cease to be valid in case of any change in product/ process/operation/activities/ capacity/ area or in information/document submitted/uploaded at the time of seeking consent.

Page 4 of 6

Signature Not Verified

Digitally signed by Ashish Kumar
 Baurasi
 Date: 2024.02.13 17:20:44 IST
 Reason: Self Attested
 Location:





Regional Office Chittorgarh
Rajasthan State Pollution Control Board
 Near FCI Godown, Chanderia, Chittorgarh
 Phone: 01472-255077

Registered

File No : F(Tech)/Pratapgarh(Pratapgarh)/36(1)/2023-2024/573-574

Order No: 2023-2024/Chittorgarh/12474

Date: Feb 12 2024 6:39PM

Unit Id : 128199

- 33 That submission of any incorrect or partial information/false documents or concealment or misrepresentation of material facts shall make the applicant/industry/ process/ project liable for legal action, jointly as well as severally, under the provisions of the Indian Penal Code'1860, Information Technology Act'2000, Water (Prevention & Control of Pollution) Act'1974 & Air (Prevention & Control of Pollution) Act'1981, which may include imprisonment and/or penalty as per the provisions of the statutes.
- 34 That No Single Use Plastic (SUP) item, which is banned vide ministry of Environment, Forest and climate change (MoEF&CC), Government of India notification dated 12.08.2021 shall be used in the industry/unit premises.
- 35 That, notwithstanding anything provided hereinabove, the State Board shall have the power and reserves its right, as contained under **Section 27(2) of the Water Act** to review anyone or all of the conditions imposed here in above and to make such variation as it deems fit for the purpose of **Water Act**.
- 36 That the grant of this **Consent to Operate** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 37 That the grant of this **Consent to Operate** shall not, in any way, adversely affect or jeopardize the legal proceeding, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Water Act or the Rules made thereunder.
- 38 That the Project Proponent shall comply with provisions of the E-waste (Management) Rules, 2016 and ensure that e-waste generated by them is channelized through collection centre or dealer of authorized producer or dismantler or recycler or through designated take back service provider of the producer to authorized dismantler or recycler.
- 39 That the Project Proponent shall maintain record of e-waste generated by them in Form-2 and make such records available for scrutiny by the Board.
- 40 That the Project Proponent shall file annual returns in Form-3, to the Board on or before the 30th day of June following the financial year to which that return relates.
- 41 That the transportation of e-waste shall be carried out as per the manifest system whereby the transporter shall be required to carry a document (three copies) prepared by the sender, giving the details as per Form-6.

Page 5 of 6

Signature Not Verified

Digitally signed by Ashish Kumar
 Baurasi
 Date: 2024.02.13 17:20:44 IST
 Reason: Self Attested
 Location:





Regional Office Chittorgarh
Rajasthan State Pollution Control Board
 Near FCI Godown, Chanderia, Chittorgarh
 Phone: 01472-255077

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Date: Feb 12 2024 6:39PM

Unit Id : 128199

- 42 That the Project Proponent shall comply with provisions of the Batteries (Management and Handling) Rules, 2001(as amended) and submit half yearly returns (as bulk consumer, importer, auctioneer, recycler as the case may be) to the State Board as provided under Rule 10(2) (ii) of the Battery (Management and Handling) Rules, 2001(as amended). In case the Project Proponent is not a bulk consumer even then the used batteries shall be returned to the authorized dealers or recyclers only.
- 43 That the record of batteries purchased and sold/ returned to registered dealers and/ or authorized recyclers shall be maintained and made available to the officers of the Board during inspections.

This **Consent to Operate** shall also be subject, besides the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The Project Proponent will comply with the provisions of the **Water Act** and to such other conditions as may, from time to time , be specified, by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Operate** and Project Proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

Yours sincerely,

Regional Officer [Chittorgarh]

(A): **Copy to:-**

1 Master File.

Regional Officer [Chittorgarh]

Page 6 of 6

Signature Not Verified

Digitally signed by Ashish Kumar
 Baurasi
 Date: 2024.02.13 17:20:44 IST
 Reason: SelfAttested
 Location:



Consent to Establish (CTE) for 23 KLD FSTP, Bari

Regional Office Bharatpur
Rajasthan State Pollution Control Board



Registered

File No : F(Tech)/Dholpur(Bari)/2619(1)/2023-2024/1294-1295

Order No : 2023-2024/Bharatpur/9140

Dispatch Date: Jan 12 2024 1:48PM

Unit Id : 130688

M/s FSTP Nagar Palika Bari

Khasra No. 84, Bari , Dholpur Tehsil:Bari

District:Dholpur

Sub: Consent to Establish under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974.

Re: Your application(s) for Consent to Establish dated 23/11/2023 and subsequent correspondence.

Sir,

Consent to Establish under the provisions of Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 [hereinafter to be referred as the Water Act) as amended or date and rules & the orders issued thereunder **is hereby granted** for your **FSTP Nagar Palika Bari plant** situated / proposed at **Khasra No 84, Bari Dholpur Tehsil:Bari District:Dholpur**, Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

- 1 That this Consent to Establish is valid for a period from **23/11/2023 to 31/10/2028 or date of commencement of production / commissioning of the project or activities whichever is earlier**.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

Particular	Type	Quantity / Capacity
FAECAL SLUDGE TREATMENT PLANT (FSTP)	Service	23.00 KLD

- 3 That in case of any increase in capacity or addition / modification / alteration or change in product mix or process or raw material or fuel, the project proponent is required to obtain fresh consent to establish.
- 4 That the control equipment as proposed by the applicant shall be installed before trial operation is started for which prior consent to operate under the provision of the **Water Act** shall be obtained. This consent to establish shall not be treated as consent to operate.

Page 1 of 4

Signature Not Verified

Digitally signed by Umesh Kumar
 Date: 2024.01.12 13:48:55 IST
 Reason: SelfAttested
 Location:





Regional Office Bharatpur
Rajasthan State Pollution Control Board

Registered

File No : F(Tech)/Dholpur(Bari)/2619(1)/2023-2024/1294-1295

Order No : 2023-2024/Bharatpur/9140

Dispatch Date: Jan 12 2024 1:48PM

Unit Id : 130688

- 5 In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.
- 6 That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 400 Lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount.
- 7 That above stated effluent standards are subject to the Hon'ble NGT order dated 30/4/2019 in matter of O.A. no 1069/2018 Nitin Shankar Deshpande Vs Union of India and Ors.
- 8 This consent to establish is being issued to establish FSTP on Khasra no. 84 as per Nagar Palika letter no. 1738 dated 29/05/2023.
- 9 The State Board will not consider consent to operate unless D.G. set or alternate sources of power supply is installed to ensure continuous operation of FSTP.
- 10 That Online Continuous Effluent Monitoring System(OCEMS) for parameters namely pH, TSS,COD,BOD and flow meter shall be installed and monitoring data shall be connected with the servers of State Board and Central Pollution Control Board.
- 11 That regular maintenance and operation of the OCEMS with temper proof mechanism with facilities for calibration shall be ensured.
- 12 That guidelines prescribed by CPCB for OCEMS for effluents and Standard Operating Procedure (SOP) for verification of Installation and Calibration of UV-Vis Dual Beam Scanning and Multipoint Calibration Mechanism Technology based OCEMS (effluent) used in FSTPs shall be followed.
- 13 That no treated/untreated/partially treated sewage shall be discharged into any water body, if intend to do so, State Board may initiate stern action against Nagar Palika, Bari under the provisions of Water Act, 1974.
- 14 That entire treated sewage shall be utilized in irrigation/plantation/horticulture and other gainful purposes.
- 15 That neither any ground water shall be abstracted nor shall any ground water abstraction structure be constructed without obtaining prior permission from the Central Ground Water Authority (CGWA).
- 16 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 17 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 18 That the unit shall undertake plantation in two rows of suitable species all along the periphery of the site of the FSTP to control foul smell.
- 19 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.

Page 2 of 4

Signature Not Verified

Digitally signed by Umesh Kumar
Date: 2024.01.12 13:48:55 IST
Reason: Self Attested
Location:





Environmental Monitoring Report

PUBLIC

Semestral Report: October 2023 – March 2024
June 2024

India: Rajasthan Secondary Towns Development Sector Project

Part 2 of 3: Appendix 3(continued) and Appendices 4 - 9

Prepared by Rajasthan Urban Drinking Water Sewerage and Infrastructure Corporation Limited,
Government of Rajasthan for the Asian Development Bank (ADB).

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Asian Development Bank



Regional Office Bharatpur
Rajasthan State Pollution Control Board

Registered

File No : F(Tech)/Dholpur(Bari)/2619(1)/2023-2024/1294-1295

Order No : 2023-2024/Bharatpur/9140

Dispatch Date: Jan 12 2024 1:48PM

Unit Id : 130688

- 20 That no single use plastic (SUP) item, which is banned vide Ministry of Environment, Forest and Climate Change (MOEF & CC), Government of India notification dated 12.08.2021 shall be used in the industry/unit premises.
- 21 That, notwithstanding anything provided hereinabove, the State Board shall have the power and reserves its right, as contained **Section 27(2) of the Water Act** to review anyone or all of the conditions imposed here in above and to make such variation as it deems fit for the purpose of compliance of the **Water Act**.
- 22 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 23 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Establish** shall also be subject, besides the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The project proponent will comply with the provisions of the **Water Act** and to such other conditions as may, from time to time, be specified by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Establish** and project proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

Yours sincerely,

Regional Officer[Bharatpur]

(A): Copy to:-

1 Master File.

Page 3 of 4

Signature Not Verified

Digitally signed by Umesh Kumar
Date: 2024.01.12 13:48:55 IST
Reason: Self Attested
Location:





Regional Office Bharatpur
Rajasthan State Pollution Control Board

Registered

File No : F(Tech)/Dholpur(Bari)/2619(1)/2023-2024/1294-1295
Order No : 2023-2024/Bharatpur/9140
Unit Id : 130688

Dispatch Date: Jan 12 2024 1:48PM

Regional Officer[Bharatpur]

Page 4 of 4

Signature Not Verified

Digitally signed by Umesh Kumar
Date: 2024.01.12 13:48:55 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 12 KLD FSTP, Bhawani Mandi

Regional Office Jhalawar
Rajasthan State Pollution Control Board
Mini Secretariat, Jhalawar
Phone: 07432-295071

**Registered**

File No : F(Tech)/Jhalawar(Pachpahar)/81(1)/2023-2024/553-554

Order No: 2023-2024/Jhalawar/4127

Dispatch Date: Jan 9 2024 1:42PM

Unit Id : 130698

M/s FSTP Nagar Palika Bhavani Mandi

Khasra No. 80, Village Pachpahaad, Bhavani Mandi,

Jhalawar Tehsil:Pachpahar

District:Jhalawar

Sub: Consent to Establish under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974.

Ref: Your application(s) for Consent to Establish dated 23/11/2023 and subsequent correspondence.

Sir,

Consent to Establish under the provisions of Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) as amended to date and rules & the orders issued thereunder **is hereby granted** for your **FSTP Nagar Palika Bhavani Mandi plant** situated / proposed at **Khasra No 80, Village Pachpahaad, Bhavani Mandi Jhalawar Tehsil:Pachpahar District:Jhalawar**, Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

- 1 That this Consent to Establish is valid for a period from **23/11/2023 to 31/10/2028 or date of commencement of production / commissioning of the project or activities whichever is earlier**.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

Particular	Type	Quantity / Capacity
FAECAL SLUDGE TREATMENT PLANT (FSTP)	Service	12.00 KLD

- 3 That in case of any increase in capacity or addition / modification / alteration or change in product mix or process or raw material or fuel, the project proponent is required to obtain fresh consent to establish.
- 4 That the control equipment as proposed by the applicant shall be installed before trial operation is started for which prior consent to operate under the provision of the **Water Act** shall be obtained. This consent to establish shall not be treated as consent to operate.



Regional Office Jhalawar
Rajasthan State Pollution Control Board
Mini Secretariat, Jhalawar
Phone: 07432-295071

Registered

File No : F(Tech)/Jhalawar(Pachpahar)/81(1)/2023-2024/553-554

Order No: 2023-2024/Jhalawar/4127

Dispatch Date: Jan 9 2024 1:42PM

Unit Id : 130698

- 5 That the quantity of effluent generation and disposal along with mode of disposal for the treated effluent shall be as under:

Type of effluent	Max. effluent generation (KLD)	Quantity of effluent to be recycled (KLD)	Quantity of treated effluent to be disposed (KLD) and mode of disposal
Domestic Sewage	12.000	NIL	11.000 Gardening and Land Scaping

- 6 That the Domestic Sewage shall be treated before disposal so as to conform to the standards prescribed by the Board as notified under the Environment (Protection) Act-1986 for disposal **Into Inland Surface Water**. The main parameters for regular monitoring shall be as under:

Parameters	Standards
pH Value	Between 5.5 to 9.0
Phosphate as P	Not to exceed 1.0 mg/l
Biochemical Oxygen Demand (3 days at 27°C)	Not to exceed 10 mg/l
Chemical Oxygen Demand	Not to exceed 50 mg/l
Fecal Coliform	not to exceed 230 MPN/100 ml
N total	10 mg/l
Total Suspended Solids	Not to exceed 20 mg/l

- 7 The total project cost shall not exceed to Rs. 352 lacs which includes the cost of Land, Building and Plant & Machinery & accordingly unit has remitted Consent to Establish (CTE) fee of Rs.21000/-under Water Act, 1974 (Slab More than Rs. 2 crore up to 5 crore, Red Category) as per Board's fee notification dated 26.05.2016.



Regional Office Jhalawar
Rajasthan State Pollution Control Board
 Mini Secretariat, Jhalawar
 Phone: 07432-295071

Registered

File No : F(Tech)/Jhalawar(Pachpahar)/81(1)/2023-2024/553-554

Order No : 2023-2024/Jhalawar/4127

Dispatch Date: Jan 9 2024 1:42PM

Unit Id : 130698

8. A. That this consent is being issued for FSTP @ 12 KLD situated at Khasra No. 80, Village- Pachpahar, Bhawanimandi, Tehsil- Pachpahar, District- Jhalawar.
 B. That in case of any increase in the project cost, the unit shall take/obtain modification in consent after paying fee as applicable.
 C. That no treated/untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/ other gainful purposes.
 D. That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
 E. That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
 F. That the unit shall undertake plantation in two rows of suitable species all along the periphery of the site of the FSTP to control foul smell.
9. A. That above stated effluent standards are subject to the Hon'ble NGT order dated 30/4/2019 in matter of O.A. no 1069/2018 Nitin Shankar Deshpande Vs Union of India and Ors. That efforts should be made to reuse the treated sewage to the maximum possible extent and minimize its discharge.
 B. That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
 C. That ground water shall not be extracted without the permission from CGWA.
 D. That a sign Board showing the name, address and capacity of the FSTP shall be provided and maintained at the entrance of the site.
 E. That grant of consent shall not absolve the project proponent from making Compliance of other statutory obligations prescribed under any other law or directions of courts or any other instrument for the time being in force.
 F. That this consent is issued to the unit on the basis of documents submitted by the applicant, if any discrepancies is found in the document/facts submitted by the unit then the consent shall be treated as revoked without any further notice and the unit shall be liable for action in accordance with provisions of law.
 G. That Project proponent shall apply for consent to operate immediately as FSTP is being operated.
10. That this Consent to establish of consent application shall cease to be valid in case of any change in product/ process/ operation/raw material/ capacity/ area or in information/ document submitted/uploaded at the time of seeking consent.
11. That efforts should be made to reuse the treated sewage to the maximum possible extent and minimize its discharge. A network of pipelines should be laid from the treated sewage collection tank to fields for utilisation.



Regional Office Jhalawar
Rajasthan State Pollution Control Board
Mini Secretariat, Jhalawar
Phone: 07432-295071

Registered

File No : F(Tech)/Jhalawar(Pachpahar)/81(1)/2023-2024/553-554

Order No : 2023-2024/Jhalawar/4127

Dispatch Date: Jan 9 2024 1:42PM

Unit Id : 130698

12 That, notwithstanding anything provided hereinabove, the State Board shall have the power and reserves its right, as contained **Section 27(2) of the Water Act** to review anyone or all of the conditions imposed here in above and to make such variation as it deems fit for the purpose of compliance of the **Water Act**.

13 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.

14 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Establish** shall also be subject, besides the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The project proponent will comply with the provisions of the **Water Act** and to such other conditions as may, from time to time, be specified by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Establish** and project proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

Yours sincerely,

Regional Officer[Jhalawar]

(A): Copy to:-

1 Master File.



Regional Office Jhalawar
Rajasthan State Pollution Control Board
Mini Secretariat, Jhalawar
Phone: 07432-295071

Registered

File No : F(Tech)/Jhalawar(Pachpahar)/81(1)/2023-2024/553-554

Order No : 2023-2024/Jhalawar/4127

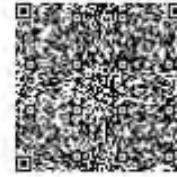
Dispatch Date: Jan 9 2024 1:42PM

Unit Id : 130698

Regional Officer[Jhalawar]

Consent to Establish (CTE) for 8 KLD FSTP, Kanore

Regional Office Udaipur
Rajasthan State Pollution Control Board
 F / 470, Madri Ind. Area, Udaipur
 Phone: 0294-2491269



Registered

File No : F(Tech)/Udaipur(Kanod)/1(1)/2023-2024/54-55

Order No : 2024-2025/Udaipur/10356

Dispatch Date: Apr 5 2024 3:49PM

Unit Id : 132202

M/s Feecal Sludge Treatment Plant

Khasra No - 211/2, Area-525 M3 at Gopalpura Village

Dumping Yard Site Kanore, Udaipur,

NagarPalika Kanore Tehsil: Kanod

District: Udaipur

Sub: Consent to Establish under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974.

Ref: Your application(s) for Consent to Establish dated 19/01/2024 and subsequent correspondence.

Sir,

Consent to Establish under the provisions of Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 [hereinafter to be referred as the Water Act] as amended to date and rules & the orders issued thereunder **is hereby granted** for your **Feecal Sludge Treatment Plant** plant situated / proposed at **Khasra No - 211/2, Area-525 M3 at Gopalpura Village Dumping Yard Site Kanore, Udaipur Nagar Palika Kanore Tehsil: Kanod District: Udaipur**, Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

- 1 That this Consent to Establish is valid for a period from **19/01/2024 to 31/12/2028 or date of commencement of production / commissioning of the project or activities whichever is earlier**.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

Particular	Type	Quantity / Capacity
FAECAL Sludge treatment plant (FSTP)	Service	8.00 KLD

- 3 That in case of any increase in capacity or addition / modification / alteration or change in product mix or process or raw material or fuel, the project proponent is required to obtain fresh consent to establish.
- 4 That the control equipment as proposed by the applicant shall be installed before trial operation is started for which prior consent to operate under the provision of the **Water Act** shall be obtained. This consent to establish shall not be treated as consent to operate.

Page 1 of 5

Signature Not Verified

Digitally signed by Shweta Saksena
 Date: 2024.04.06 11:49:27 IST
 Reason: Self Attested
 Location:





Regional Office Udaipur
Rajasthan State Pollution Control Board
 F / 470, Madri Ind. Area, Udaipur
 Phone: 0294-2491269

Registered

File No : F(Tech)/Udaipur(Kanod)/1(1)/2023-2024/54-55

Order No : 2024-2025/Udaipur/10356

Dispatch Date: Apr 5 2024 3:49PM

Unit Id : 132202

- 5 That the unit shall maintain plantation at least in the 33% of total area within the unit premises.
- 6 That the unit shall install adequately designed rain water harvesting structure for prevention and recharge of ground water in and around the area.
- 7 That, the unit have to obtain separate consent to establish for any additions/changes/alteration.
- 8 That this consent is issued to the unit on the basis of documents submitted by the applicant, if any discrepancies is found in the document/facts submitted by the unit then the consent shall be treated as revoked without any further notice and the unit shall be liable for action in accordance with provisions of law.
- 9 This consent is not evidence for ascertaining entitlement of land.
- 10 That the unit shall obtain all necessary permissions from other concerned authorities and District Administration for establishing the plant.
- 11 That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 333 lacs and in case of any increase in the project cost, the unit shall take/obtain modification in consent after paying fee as applicable.
- 12 That this Consent to Establish is being issued for the establishment of a faecal Sludge Treatment Plant (FSTP) of capacity 08 KLD at Khasra No - 211/2, Area-525 M3 at Gopalpura Village Dumping Yard Site Kanore, Nagar Palika Kanore Tehsil:Kanod District:Udaipur
- 13 That no treated/untreated effluent shall be discharged into any other water body and entire treated sewage shall be utilized in plantation/horticulture/other gainful purposes/provided to industries for gainful purposes.
- 14 That the sludge will be properly digested, de-watered and used as manure or disposed of in a scientific manner.
- 15 That the above-stated effluent standards are subject to the Hon'ble NGT order dated 30/4/2019 in the matter of O.A. no 1069/2018 Nitin Shankar Deshpande Vs Union of India and Ors.
- 16 That the efforts should be made to reuse the treated sewage to the maximum possible extent and minimize its discharge. A network of pipelines should be laid from the treated sewage collection tank to fields for utilization.
- 17 That the adequate measures shall be taken to avoid foul odour during treatment and disposal of sludge.
- 18 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 19 That the unit shall undertake plantation in two rows of suitable species all along the periphery of the site of the FSTP to control foul smell.

Page 2 of 5

Signature Not Verified

Digitally signed by Sharad Saxena
 Date: 2024.04.05 12:49:27 IST
 Reason: SelfAttested
 Location:





Regional Office Udaipur
Rajasthan State Pollution Control Board
 F / 470, Madri Ind. Area, Udaipur
 Phone: 0294-2491269

Registered

File No : F(Tech)/Udaipur(Kanod)/1(1)/2023-2024/54-55

Order No : 2024-2025/Udaipur/10356

Dispatch Date: Apr 5 2024 3:49PM

Unit Id : 132202

- 20 That No Single Use Plastic (SUP) item, which is banned vide ministry of Environment, Forest and climate change (MoEF&CC), Government of India notification dated 12.08.2021 shall be used in the industry/unit premises.
- 21 That any incorrect information submitted in the consent application form of declaration shall make the industry liable for legal action under Section 42 of the Water and Section 38 of the Air Act.
- 22 That the industry shall ensure compliance of Noise Pollution (Regulation and Control) Rules, 2000 and amended till date.
- 23 That this consent is valid subject to fulfillment of all the other statutory requirements in other Law/Act/Rules as applicable.
- 24 That grant of consent shall not absolve the project proponent from making Compliance of other statutory obligations prescribed under any other law or directions of courts or any other instrument for the time being in force.
- 25 That the industry shall carryout effluent sampling and ambient air quality/stack emission/process emission monitoring and submit quarterly analysis report from State Board laboratory/laboratory recognized by Ministry of Environment & Forests(MoEF), Government of India/Rajasthan State Pollution Control Board.
- 26 A Sign Board showing the name, address and capacity of the PSTP as well as validity of the consents should be displayed at the entrance of the site.
- 27 That the unit shall not allow to disposed off the treated sewage in any natural nallah/stream without prior permission from competent authority or Government of Rajasthan.
- 28 That the water flow meters shall be provided at all suitable points to measure quantity of daily waste water received, waste water treated and treated waste water utilized for irrigation, plantation/gardening purposes. Daily record of the same shall be maintained and to be submitted to the Board.
- 29 That the entire treated fecal sludge and treated waste water shall be utilized for irrigation, horticulture/plantation etc.
- 30 That the unit shall ensure proper & scientific utilization and reuse of treated faecal sludge.
- 31 That the unit shall not allow discharging the treated domestic waste water into any stream/Nallah which is ultimately terminating into any water body used for drinking purposes.
- 32 That the unit shall not allow making any obstacles to any natural water flow i.e. natural nallah/stream carrying rain water to any water body.
- 33 That the unit shall ensure no treated/untreated fecal sludge entering into Lakes/water bodies existing in nearby area.

Page 3 of 5

Signature Not Verified

Digitally signed by Shradh Saxena
 Date: 2024.04.05 12:49:27 IST
 Reason: Self Attested
 Location:





Regional Office Udaipur
Rajasthan State Pollution Control Board
 F / 470, Madri Ind. Area, Udaipur
 Phone: 0294-2491269

Registered

File No : F(Tech)/Udaipur(Kanod)/1(1)/2023-2024/54-55

Order No: 2024-2025/Udaipur/10356

Dispatch Date: Apr 5 2024 3:49PM

Unit Id : 132202

- 34 That the unit shall take adequate measures to prevent accumulation/cess pooling of untreated/treated sewage within and outside the premises to avoid any adverse impact on inhabitants of nearby areas.
 - 35 That this consent to establish shall be subject to compliance of any direction or order passed by Court of Law in the matter.
 - 36 That submission of any incorrect or partial information/false documents or concealment or misrepresentation of material facts shall make the applicant/industry/ process/ project liable for legal action, under the provisions of Air (Prevention & Control of Pollution) Act'1981 & environmental protection Act'1986, which may include imprisonment and/or penalty as per the provisions of the statutes.
 - 37 That, notwithstanding anything provided hereinabove, the State Board shall have the power and reserves its right, as contained **Section 27(2) of the Water Act** to review anyone or all of the conditions imposed here in above and to make such variation as it deems fit for the purpose of compliance of the **Water Act**.
 - 38 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
 - 39 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.
- This **Consent to Establish** shall also be subject, besides the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The project proponent will comply with the provisions of the **Water Act** and to such other conditions as may, from time to time, be specified by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Establish** and project proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

Page 4 of 5

Signature Not Verified

Digitally signed by Sharad Saxena
 Date: 2024.04.05 14:49:27 IST
 Reason: Self Attested
 Location:





Regional Office Udaipur
Rajasthan State Pollution Control Board
F / 470, Madri Ind. Area, Udaipur
Phone: 0294-2491269

Registered

File No : F(Tech)/Udaipur(Kanod)/1(1)/2023-2024/54-55
Order No : 2024-2025/Udaipur/10356
Unit Id : 132202

Dispatch Date: Apr 5 2024 3:49PM

Yours sincerely,

Regional Officer[Udaipur]

(A) Copy to:-
1. Master File.

Regional Officer[Udaipur]

Page 5 of 5

Signature Not Verified

Digitally signed by Shradh Saxena
Date: 2024.04.05 12:49:27 IST
Reason: SelfAttested
Location:



Consent to Establish (CTE) for 15 KLD FSTP, Deeg

Regional Office Bharatpur
Rajasthan State Pollution Control Board

**Registered**

File No : F(Tech)/DEEG(Deeg)/22(1)/2023-2024/1403-1404

Order No : 2023-2024/Bharatpur/9186

Dispatch Date: Jan 25 2024 5:39PM

Unit Id : 131699

M/s Faecal Sludge Treatment Plant**M/s Nagar Parisad, Deeg, Khasra No. 942, Near Mali****Pura Road, Deeg, Deeg Tehsil:Deeg****District:DEEG**

Sub: Consent to Establish under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974.

Ref: Your application(s) for Consent to Establish dated 02/01/2024 and subsequent correspondence.

Sir,

Consent to Establish under the provisions of Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) as amended to date and rules & the orders issued thereunder is hereby granted for your **Faecal Sludge Treatment Plant** plant situated / proposed at **M/s Nagar Parisad, Deeg, Khasra No 942, Near Mali Pura Road, Deeg Deeg Tehsil:Deeg District:DEEG** - Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

- 1 That this Consent to Establish is valid for a period from **02/01/2024** to **31/12/2028** or **date of commencement of production / commissioning of the project or activities whichever is earlier**.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

Particular	Type	Quantity / Capacity
FAECAL SLUDGE TREATMENT PLANT (FSTP)	Service	15.00 KLD

- 3 That in case of any increase in capacity or addition / modification / alteration or change in product mix or process or raw material or fuel, the project proponent is required to obtain fresh consent to establish.
- 4 That the control equipment as proposed by the applicant shall be installed before trial operation is started for which prior consent to operate under the provision of the **Water Act** shall be obtained. This consent to establish shall not be treated as consent to operate.

Page 1 of 5

Signature Not Verified

Digitally signed by Umesh Kumar
 Date: 2024.01.25 17:39:40 IST
 Reason: Self Attested
 Location:





Regional Office Bharatpur
Rajasthan State Pollution Control Board

Registered

File No : F(Tech)/DEEG(Deeg)/22(1)/2023-2024/1403-1404

Order No : 2023-2024/Bharatpur/9186

Dispatch Date: Jan 25 2024 5:39PM

Unit Id : 131699

- 5 That the quantity of effluent generation and disposal along with mode of disposal for the treated effluent shall be as under:

Type of effluent	Max. effluent generation (KLD)	Quantity of effluent to be recycled (KLD)	Quantity of treated effluent to be disposed (KLD) and mode of disposal
Domestic Sewage	15.000	NIL	15.000 Plantation / Other secondary uses within Premises

- 6 That the Domestic Sewage shall be treated before disposal so as to conform to the standards prescribed by the Board as notified under the Environment (Protection) Act-1986 for disposal **Into Inland Surface Water**. The main parameters for regular monitoring shall be as under:

Parameters	Standards
pH Value	Between 5.5 to 9.0
Phosphate as P	Not to exceed 1.0 mg/l
Biochemical Oxygen Demand (3 days at 27C)	Not to exceed 10 mg/l
Chemical Oxygen Demand	Not to exceed 50 mg/l
Fecal Coliform	not to exceed 230 MPN/100 ml
N total	10 mg/l
Total Suspended Solids	Not to exceed 20 mg/l

- 7 In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.

Page 2 of 5

Signature Not Verified

Digitally signed by Umesh Kumar
Date: 2024.01.25 17:39:40 IST
Reason: Self Attested
Location:





Regional Office Bharatpur
Rajasthan State Pollution Control Board

Registered

File No : F(Tech)/DEEG(Deeg)/22(1)/2023-2024/1403-1404

Order No : 2023-2024/Bharatpur/9186

Dispatch Date: Jan 25 2024 5:39PM

Unit Id : 131699

- 8 That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 363 Lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount.
- 9 That above stated effluent standards are subject to the Hon'ble NGT order dated 30/4/2019 in matter of O.A. no 1069/2018 Nitin Shankar Deshpande Vs Union of India and Ors.
- 10 This consent to establish is being issued to establish FSTP on land of nagar palika, deeg as per Nagar Palika letter no. 50 dated 02/05/2023.
- 11 The State Board will not consider consent to operate unless D.G. set or alternate sources of power supply is installed to ensure continuous operation of FSTP.
- 12 That Online Continuous Effluent Monitoring System(OCEMS) for parameters namely pH, TSS,COD,BOD and flow meter shall be installed and monitoring data shall be connected with the servers of State Board and Central Pollution Control Board.
- 13 That regular maintenance and operation of the OCEMS with temper proof mechanism with facilities for calibration shall be ensured.
- 14 That guidelines prescribed by CPCB for OCEMS for effluents and Standard Operating Procedure (SOP) for verification of Installation and Calibration of UV-Vis Dual Beam Scanning and Multipoint Calibration Mechanism Technology based OCEMS (effluent) used in FSTPs shall be followed.
- 15 That no treated/untreated/partially treated sewage shall be discharged into any water body, if intend to do so, State Board may initiate stern action against Nagar Palika, Bari under the provisions of Water Act, 1974.
- 16 That entire treated sewage shall be utilized in irrigation/plantation/horticulture and other gainful purposes.
- 17 That neither any ground water shall be abstracted nor shall any ground water abstraction structure be constructed without obtaining prior permission from the Central Ground Water Authority (CGWA).
- 18 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 19 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 20 That the unit shall undertake plantation in two rows of suitable species all along the periphery of the site of the FSTP to control foul smell.
- 21 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 22 That no single use plastic (SUP) item, which is banned vide Ministry of Environment, Forest and Climate Change (MOEF & CC), Government of India notification dated 12.08.2021 shall be used in the industry/unit premises.

Page 3 of 5

Signature Not Verified

Digitally signed by Unesh Kumar
Date: 2024.01.25 17:39:40 IST
Reason: Self Attested
Location:





Regional Office Bharatpur
Rajasthan State Pollution Control Board

Registered

File No : F(Tech)/DEEG(Deeg)/22(1)/2023-2024/1403-1404

Order No : 2023-2024/Bharatpur/9186

Dispatch Date: Jan 25 2024 5:39PM

Unit Id : 131699

23 That, notwithstanding anything provided hereinabove, the State Board shall have the power and reserves its right, as contained **Section 27(2) of the Water Act** to review anyone or all of the conditions imposed here in above and to make such variation as it deems fit for the purpose of compliance of the **Water Act**.

24 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.

25 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Establish** shall also be subject, besides the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The project proponent will comply with the provisions of the **Water Act** and to such other conditions as may, from time to time, be specified by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Establish** and project proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

Yours sincerely,

Regional Officer[Bharatpur]

(A). **Copy to:-**

1. Master File.

Page 4 of 5

Signature Not Verified

Digitally signed by Umesh Kumar
Date: 2024.01.25 17:39:40 IST
Reason: Self Attested
Location:





Regional Office Bharatpur
Rajasthan State Pollution Control Board

Registered

File No : F(Tech)/DEEG(Deeg)/22(1)/2023-2024/1403-1404

Order No : 2023-2024/Bharatpur/9186

Dispatch Date: Jan 25 2024 5:39PM

Unit Id : 131699

Regional Officer [Bharatpur]

Page 5 of 5

Signature Not Verified

Digitally signed by Umesh Kumar
Date: 2024.01.25 17:39:40 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 4 KLD FSTP, Jobner

Regional Office Jaipur
Rajasthan State Pollution Control Board
 Opp. Road No 5, VKIA, Sikar Road, Jaipur
 Phone: 0141-2332263



Registered

File No : F(Tech)/JAIPUR(Phulera)/6374(1)/2023-2024/3116-3117

Order No : 2023-2024/Jaipur/12813

Dispatch Date: Mar 14 2024 7:30PM

Unit Id : 130969

M/s FSTP Jobner

Municipal Board, Jobner, Jobner

Sub: Consent to Establish under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974.

Ref: Your application(s) for Consent to Establish dated 07/12/2023 and subsequent correspondence.

Sir,

Consent to Establish under the provisions of Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 [hereinafter to be referred as the Water Act] as amended to date and rules & the orders issued thereunder is hereby granted for your FSTP plant situated / proposed at **Khasara No-137, Pratappura, Jobner Pratappura Tehsil: Phulera District: JAIPUR**, Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

- 1 That this Consent to Establish is valid for a period from **07/12/2023** to **30/11/2028** or **date of commencement of production / commissioning of the project or activities whichever is earlier**.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

Particular	Type	Quantity / Capacity
FAECAL SLUDGE TREATMENT PLANT (FSTP)	Service	4.00 KLD

- 3 That in case of any increase in capacity or addition / modification / alteration or change in product mix or process or raw material or fuel, the project proponent is required to obtain fresh consent to establish.
- 4 That the control equipment as proposed by the applicant shall be installed before trial operation is started for which prior consent to operate under the provision of the **Water Act** shall be obtained. This consent to establish shall not be treated as consent to operate.
- 5 **This consent is not evidence for ascertaining entitlement of land.**

Page 1 of 4

Signature Not Verified

Digitally signed by Vijay Sharma
 Date: 2024.03.14 19:30:18 IST
 Reason: Self Attested
 Location:





Regional Office Jaipur
Rajasthan State Pollution Control Board
Opp. Road No 5, VKIA, Sikar Road, Jaipur
Phone: 0141-2332263

Registered

File No : F(Tech)/JAIPUR(Phulera)/6374(1)/2023-2024/3116-3117

Order No : 2023-2024/Jaipur/12813

Dispatch Date: Mar 14 2024 7:30 PM

Unit Id : 130969

- 6 That the unit shall obtain all necessary permission from concern authority & district administration, Jaipur for establishment of FSTP of 4 KLD.
- 7 That the unit shall not allow to disposed off the treated sewage in any natural nallah/stream without prior permission from competent authority or Government of Rajasthan.
- 8 That the unit shall carryout performance evaluation of the FSTP and submit the performance evaluation report to the Board within three month time.
- 9 That the unit shall carryout sampling of treated waste water and submit the result to State Board immediately after operation of FSTP.
- 10 That the water flow meters shall be provided at all suitable points to measure quantity of daily waste water received, waste water treated and treated waste water utilized for irrigation, plantation/gardening purposes. Daily record of the same shall be maintained and to be submitted to the Board.
- 11 That the entire treated fecal sludge and treated waste water shall be utilized for irrigation, horticulture/plantation etc.
- 12 That the unit shall ensure proper & scientific utilization and reuse of treated faecal sludge.
- 13 That this consent to establish is being issued for establishing of FSTP of 04.00 KLD at Khasra no. 137, Pratappura, Tehsil- Jobner, District - Jaipur having area 0.0625 Hectare proposed by M/s FSTP. For any change in capacity, the unit has to seek fresh consent to establish.
- 14 That if the project cost exceeds Rs. 274 Lacs, the unit shall take/obtain modification in consent to establish after paying fee as applicable.
- 15 That the unit shall not allow discharging the treated domestic waste water into any stream/Nallah which is ultimately terminating into any water body used for drinking purposes.
- 16 That the unit shall undertake spray of insecticides time to time to control fly/mosquito growth in the area.
- 17 That the unit shall undertake plantation in two rows of suitable species all along the periphery of the site of the FSTP to control foul smell.
- 18 That the unit shall install adequately designed rain water harvesting structure for prevention and recharge of ground water in and around the area.
- 19 That the unit shall not install any source of Air pollution i.e. D.G. Set etc. without prior permission from the Board.
- 20 That the unit shall not allow making any obstacles to any natural water flow i.e. natural nallah/stream carrying rain water to any water body.
- 21 That the unit shall ensure no treated/untreated fecal sludge entering into Lakes/water bodies existing in nearby area.

Page 2 of 4

Signature Not Verified

Digitally signed by Vijay Sharma
Date: 2024.03.14 19:30:18 IST
Reason: Self Attested
Location:





Regional Office Jaipur
Rajasthan State Pollution Control Board
 Opp. Road No 5, VKIA, Sikar Road, Jaipur
 Phone: 0141-2332263

Registered

File No : F(Tech)/JAIPUR(Phulera)/6374(1)/2023-2024/3116-3117

Order No: 2023-2024/Jaipur/12813

Dispatch Date: Mar 14 2024 7:30PM

Unit Id : 130969

- 22 That the unit shall take adequate measures to prevent accumulation/cess pooling of untreated/treated sewage within and outside the premises to avoid any adverse impact on inhabitants of nearby areas.
- 23 That this consent to establish shall be subject to compliance of any direction or order passed by Court of Law in the matter.
- 24 That submission of any incorrect or partial information/false documents or concealment or misrepresentation of material facts shall make the applicant/industry/ process/ project liable for legal action, under the provisions of Air (Prevention & Control of Pollution) Act'1981 & environmental protection Act'1986, which may include imprisonment and/or penalty as per the provisions of the statutes.
- 25 That no Single Use Plastic (SUP) item, which is banned vide Ministry of Environment, Forest and Climate Change (MOEF & CC), Government of India notification dated 12.08.2021 shall be used in the industry/unit premises.
- 26 That proponent shall obtain the necessary permission from the forest department, or other department/authority in concern if the unit falls/comes under such area/ purview or scope of concern of forest, eco sensitive zone, conserved area and within the boundary limits of any national park, sanctuary or other area defined by the forest department, any authorities in concern time to time. The sole responsibility of obtaining the permission from the departments in concerns i.e forest department, Wild Life Board or other departments is of project proponent. The project proponent shall ensure to establish the unit only after obtaining the permission from the departments in concern (if applicable).
- 27 That the unit shall apply immediately for consent to establish under the provisions of the Air Act for 08 KVA capacity D.G. Set.
- 28 That, notwithstanding anything provided hereinabove, the State Board shall have the power and reserves its right, as contained Section 27(2) of the Water Act to review anyone or all of the conditions imposed here in above and to make such variation as it deems fit for the purpose of compliance of the Water Act.
- 29 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.

Page 3 of 4

Signature Not Verified

Digitally signed by Vijay Sharma
 Date: 2024.03.14 19:30:18 IST
 Reason: Self Attested
 Location:





Regional Office Jaipur
Rajasthan State Pollution Control Board
Opp. Road No 5, VKIA, Sikar Road, Jaipur
Phone: 0141-2332263

Registered

File No : F(Tech)/JAIPUR(Phulera)/6374(1)/2023-2024/3116-3117

Order No : 2023-2024/Jaipur/12813

Dispatch Date: Mar 14 2024 7:30PM

Unit Id : 130969

30 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Establish** shall also be subject, besides the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The project proponent will comply with the provisions of the **Water Act** and to such other conditions as may, from time to time, be specified by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Establish** and project proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

Yours sincerely,

Regional Officer[Jaipur]

(A): Copy to:-

1. Master File.

Regional Officer[Jaipur]

Page 4 of 4

Signature Not Verified

Digitally signed by Vijay Sharma
Date: 2024.03.14 19:30:18 IST
Reason: SelfAttested
Location:



Consent to Establish (CTE) for 12 KLD FSTP, Neem Ka Thana

Regional Office Sikar
Rajasthan State Pollution Control Board
 Shiv-Singhpura Housing Board Colony, Nawalgarh Road, Sikar-3:
 Phone: 01572-248009



Registered

File No : F(Tech)/NEEMKATHANA(Neem Ka Thana)/7211(1)/2023-2024/102

Order No : 2023-2024/Sikar/13133

Dispatch Date: Jan 5 2024 5:06PM

Unit Id : 130389

M/s Faecal Sludge Treatment Plant

Office of the Municipal Council, Neem ka thana ,
NeemKaThanaSub: **Consent to Establish** under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974.

Ref: Your application(s) for Consent to Establish dated 02/11/2023 and subsequent correspondence.

Sir,

Consent to Establish under the provisions of Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) as amended to date and rules & the orders issued thereunder **is hereby granted** for your **Faecal Sludge Treatment Plant** plant situated / proposed at **Khasra no 4 5 Ranasar road, Neem ka Thana Neem ka thana Tehsil:Neem Ka Thana District:NEEMKATHANA** , Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

- 1 That this Consent to Establish is valid for a period from **02/11/2023 to 31/10/2028 or date of commencement of production / commissioning of the project or activities whichever is earlier**.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

Particular	Type	Quantity / Capacity
Faecal Sludge Treatment Plant	Activity	12.00 KLD

- 3 That in case of any increase in capacity or addition / modification / alteration or change in product mix or process or raw material or fuel, the project proponent is required to obtain fresh consent to establish.
- 4 That the control equipment as proposed by the applicant shall be installed before trial operation is started for which prior consent to operate under the provision of the **Water Act** shall be obtained. This consent to establish shall not be treated as consent to operate.

Page 1 of 4

Signature Not Verified

Digitally signed by Naveen Sharma
 Date: 2024.01.06 17:06:43 IST
 Reason: Self Attested
 Location:





Regional Office Sikar
Rajasthan State Pollution Control Board
 Shiv-Singhpura Housing Board Colony, Nawalgarh Road, Sikar-332 001
 Phone: 01572-248009

Registered

File No : F(Tech)/NEEMKATHANA(Neem Ka Thana)/7211(1)/2023-2024/102

Order No : 2023-2024/Sikar/13133

Dispatch Date: Jan 5 2024 5:06PM

Unit Id : 130389

- 5 That the quantity of effluent generation and disposal along with mode of disposal for the treated effluent shall be as under:

Type of effluent	Max. effluent generation (KLD)	Quantity of effluent to be recycled (KLD)	Quantity of treated effluent to be disposed (KLD) and mode of disposal
Domestic Sewage	12.000	NIL	NIL, Gardening/Plantation

- 6 That the Domestic Sewage shall be treated before disposal so as to conform to the standards prescribed by the Board as notified under the Environment (Protection) Act-1986 for disposal **Into Inland Surface Water**. The main parameters for regular monitoring shall be as under:

Parameters	Standards
pH Value	Between 5.5 to 9.0
Biochemical Oxygen Demand (3 days at 27°C)	Not to exceed 10 mg/l
Chemical Oxygen Demand	Not to exceed 50 mg/l
NH4 (N)	5 mg/l
N total	10 mg/l
Total Suspended Solids	Not to exceed 20 mg/l
Fecal Coliform (MPN per 100 ml)	Not to exceed 100

- 7 That fee for this consent has been deposited on the basis of estimated project cost of Rs. 338.00 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount.
- 8 That no treated/untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/ other gainful purposes.

Page 2 of 4

Signature Not Verified

Digitally signed by Nureja Sharma
 Date: 2024.01.05 17:06:43 IST
 Reason: SelfAttested
 Location:





Regional Office Sikar
Rajasthan State Pollution Control Board
 Shiv-Singhpura Housing Board Colony, Nawalgarh Road, Sikar-332 001
 Phone: 01572-248009

Registered

File No : F(Tech)/NEEMKATHANA(Neem Ka Thana)/7211(1)/2023-2024/102

Order No: 2023-2024/Sikar/13133

Dispatch Date: Jan 5 2024 5:06PM

Unit Id : 130389

- 9 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 10 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 11 That the unit shall undertake plantation in two rows of suitable species all along the periphery of the site of the STP to control foul smell.
- 12 That above stated effluent standards are subject to the Hon'ble NGT order dated 30/4/2019 in matter of O.A. no 1069/2018 Nitin Shankar Deshpande Vs Union of India and Ors
- 13 That efforts should be made to reuse the treated sewage to the maximum possible extent and minimize its discharge. A network of pipelines should be laid from the treated sewage collection tank to fields for utilization.
- 14 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge
- 15 That sample of treated sewage shall be collected/analysed within 30 days and report of analysis shall be submitted to the Board within 15 days thereafter.
- 16 That, notwithstanding anything provided hereinabove, the State Board shall have the power and reserves its right, as contained **Section 27(2) of the Water Act** to review anyone or all of the conditions imposed here in above and to make such variation as it deems fit for the purpose of compliance of the **Water Act**.
- 17 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 18 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Establish** shall also be subject, besides the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The project proponent will comply with the provisions of the **Water Act** and to such other conditions as may, from time to time, be specified by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Establish** and project proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

Page 3 of 4

Signature Not Verified

Digitally signed by Nerali Sharma
 Date: 2024.01.05 17:06:43 IST
 Reason: SelfAttested
 Location:





Regional Office Sikar
Rajasthan State Pollution Control Board
Shiv-Singhpura Housing Board Colony, Nawalgarh Road, Sikar-332 001
Phone: 01572-248009

Registered

File No : F(Tech)/NEEMKATHANA(Neem Ka Thana)/7211(1)/2023-2024/102

Order No : 2023-2024/Sikar/13133

Dispatch Date: Jan 5 2024 5:06PM

Unit Id : 130389

Yours sincerely,

Regional Officer[Sikar]

(A): Copy to:-

1. Master File.

Regional Officer[Sikar]

Page 4 of 4

Signature Not Verified

Digitally signed by Nityaj Sharma
Date: 2024.01.05 17:06:43 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 16 KLD FSTP, Bandi Kui

Regional Office Jaipur (S)
Rajasthan State Pollution Control Board
 8/263, Malviya Nagar, Behind Renault Showroom Near Jawahar
 Jaipur
 Phone: 0141-4068311



Registered

File No : F(Tech)/Dausa(Dausa)/7256(1)/2023-2024/2924-2925

Order No : 2023-2024/Jaipur (S)/13135

Dispatch Date: Mar 19 2024 4:34PM

Unit Id : 131011

M/s FSTP

Municipal Board, Bandikui, Bandikui Tehsil:Dausa

District:Dausa

Sub: **Consent to Establish** under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974.

Ref: Your application(s) for Consent to Establish dated 07/12/2023 and subsequent correspondence.

Sir,

Consent to Establish under the provisions of Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) as amended to date and rules & the orders issued thereunder, is **hereby granted** for your **Faecal sludge treatment plant** situated / proposed at **Khasara no 1378/B99, Abaneri road, Bandikui Tehsil:Dausa District:Dausa**, Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

- 1 That this Consent to Establish is valid for a period from **07/12/2023 to 30/11/2028 or date of commencement of production / commissioning of the project or activities whichever is earlier**.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

Particular	Type	Quantity / Capacity
Faecal Sludge Treatment Plant	Activity	16.00 KLD

- 3 That in case of any increase in capacity or addition / modification / alteration or change in product mix or process or raw material or fuel, the project proponent is required to obtain fresh consent to establish.
- 4 That the control equipment as proposed by the applicant shall be installed before trial operation is started for which prior consent to operate under the provision of the **Water Act** shall be obtained. This consent to establish shall not be treated as consent to operate.

Page 3 of 5

Signature Not Verified

Digitally signed by Narela Sharma
 Date: 2024.03.19 16:34:54 IST
 Reason: Self Attested
 Location:





Regional Office Jaipur (S)
Rajasthan State Pollution Control Board
8/263, Malviya Nagar, Behind Renault Showroom Near Jawahar Circle,
Jaipur
Phone: 0141-4068311

Registered

File No : F(Tech)/Dausa(Dausa)/7256(1)/2023-2024/2924-2925

Order No : 2023-2024/Jaipur (S)/13135

Dispatch Date: Mar 19 2024 4:34PM

Unit Id : 131011

- 5 That the quantity of effluent generation and disposal along with mode of disposal for the treated effluent shall be as under:

Type of effluent	Max. effluent generation (KLD)	Quantity of effluent to be recycled (KLD)	Quantity of treated effluent to be disposed (KLD) and mode of disposal
Domestic Sewage	16.000	NIL	16.000 Gardening/Plantation

Page 2 of 5

Signature Not Verified

Digitally signed by Nidra Sharma
Date: 2024.03.19 16:34:54 IST
Reason: Self Attested
Location:





Regional Office Jaipur (S)
Rajasthan State Pollution Control Board
 8/263, Malviya Nagar, Behind Renault Showroom Near Jawahar Circle,
 Jaipur
 Phone: 0141-4068311

Registered

File No : F(Tech)/Dausa(Dausa)/7256(1)/2023-2024/2924-2925

Order No: 2023-2024/Jaipur (S)/13135

Dispatch Date: Mar 19 2024 4:34PM

Unit Id : 131011

- 6
 - i. This consent is not evidence for ascertaining entitlement of land.
 - ii. That this consent shall be subject to compliance of any direction or order passed by court of law in the matter.
 - iii. That unit shall carryout plantation within the premises in at least 33% of the total plot area.
 - iv. That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
 - v. That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
 - vi. That the unit shall undertake plantation in two rows of suitable species all along the periphery of the site of the STP to control foul smell.
 - vii. That above stated effluent standards are subject to the Hon'ble NGT order dated 30/4/2019 in matter of O.A. no 1069/2018 Nitin Shankar Deshpande Vs Union of India and Ors.
 - viii. That efforts should be made to reuse the treated sewage to the maximum possible extent and minimize its discharge. A network of pipelines should be laid from the treated sewage collection tank to fields for utilization.
 - ix. That the unit shall maintain online monitoring system in accordance with the direction/ guideline issued by Rajasthan State Pollution Control Board/ Central Pollution Control Board.
 - x. That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
 - xi. That the unit shall make the arrangements for configuration process of online monitoring system with RSPCB server.
 - xii. That this Consent to establish is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
 - xiii. That if the project cost exceeds Rs. 426 lacs the unit shall take/obtain modification in consent to establish/operate after paying fee as applicable.
- 7 That no treated/untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/ other gainful purposes.
- 8 That unit shall not install any source of air pollution without obtaining the prior permission from the State Board.

Page 3 of 5

Signature Not Verified

Digitally signed by Naveen Sharma
 Date: 2024.03.19 16:34:54 IST
 Reason: SelfAttested
 Location:





Regional Office Jaipur (S)
Rajasthan State Pollution Control Board
8/263, Malviya Nagar, Behind Renault Showroom Near Jawahar Circle,
Jaipur
Phone: 0141-4068311

Registered

File No : F(Tech)/Dausa(Dausa)/7256(1)/2023-2024/2924-2925

Order No : 2023-2024/Jaipur (S)/13135

Dispatch Date: Mar 19 2024 4:34PM

Unit Id : 131011

- 9 That, notwithstanding anything provided hereinabove, the State Board shall have the power and reserves its right, as contained **Section 27(2) of the Water Act** to review anyone or all of the conditions imposed here in above and to make such variation as it deems fit for the purpose of compliance of the **Water Act**.
- 10 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 11 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Establish** shall also be subject, besides the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The project proponent will comply with the provisions of the **Water Act** and in such other conditions as may, from time to time, be specified by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Establish** and project proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

Yours sincerely,

Regional Officer[Jaipur (S)]

(A). Copy to:-

- 1 Master File.

Page 4 of 5

Signature Not Verified

Digitally signed by Jyoti Sharma
Date: 2024.03.19 16:34:54 IST
Reason: SelfAttested
Location:





Regional Office Jaipur (S)
Rajasthan State Pollution Control Board
8/263, Malviya Nagar, Behind Renault Showroom Near Jawahar Circle,
Jaipur
Phone: 0141-4068311

Registered

File No : F(Tech)/Dausa(Dausa)/7256(1)/2023-2024/2924-2925

Order No : 2023-2024/Jaipur (S)/13135

Unit Id : 131011

Dispatch Date: Mar 19 2024 4:34PM

Regional Officer[Jaipur (S)]

Page 5 of 5

Signature Not Verified

Digitally signed by Nitesh Sharma
Date: 2024.03.19 16:34:54 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 12 KLD FSTP, Tijara

Regional Office Bhiwadi
Rajasthan State Pollution Control Board
 G.O-I, Phase-2, RIICO Industrial Area, Bhiwadi
 Phone: 01493-221435



Registered

File No : F(Tech)/KHAIRTHAL-TIJARA(Tijara)/8166(1)/2024-2025/192-193

Order No : 2024-2025/Bhiwadi/9445

Dispatch Date: May 2 2024 6:49PM

Unit Id : 131899

M/s Faecal Sludge Treatment Plant

Khasra No. - 147 & 148, Ilaka Tijara , ILAKATIJARA

Tehsil:Tijara

District:KHAIRTHAL-TIJARA

Sub: Consent to Establish under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974.

Ref: Your application(s) for Consent to Establish dated 09/01/2024 and subsequent correspondence.

Sir,

Consent to Establish under the provisions of Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) as amended to date and rules & the orders issued thereunder **is hereby granted** for your **Faecal Sludge Treatment Plant** plant situated / proposed at **Khasra No - 147 148, Ilaka Tijara ILAKA TIJARA Tehsil:Tijara District:KHAIRTHAL-TIJARA** , Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

- 1 That this Consent to Establish is valid for a period from **09/01/2024** to **31/12/2028** or **date of commencement of production / commissioning of the project or activities whichever is earlier**.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

Particular	Type	Quantity / Capacity
Faecal Sludge Treatment Plant	Activity	12.00 KLD

- 3 That in case of any increase in capacity or addition / modification / alteration or change in product mix or process or raw material or fuel, the project proponent is required to obtain fresh consent to establish.
- 4 That the control equipment as proposed by the applicant shall be installed before trial operation is started for which prior consent to operate under the provision of the **Water Act** shall be obtained. This consent to establish shall not be treated as consent to operate.

Page 1 of 8

Signature valid
 Digitally signed by
 Rajendra Kumar
 DN: cn=Rajendra Kumar,
 o=Rajasthan State Pollution Control Board,
 ou=Regional Office Bhiwadi,
 email=rajendra.kumar@rajpcb.org



Regional Office Bhiwadi
Rajasthan State Pollution Control Board
 G.O-I, Phase-2, RHICO Industrial Area, Bhiwadi
 Phone: 01493-221435

Registered

File No : F(Tech)/KHAIRTHAL-TIJARA(Tijara)/8166(1)/2024-2025/192-193

Order No : 2024-2025/Bhiwadi/9445

Dispatch Date: May 2 2024 6:49PM

Unit Id : 131899

- 5 That the quantity of effluent generation and disposal along with mode of disposal for the treated effluent shall be as under:

Type of effluent	Max. effluent generation (KLD)	Quantity of effluent to be recycled (KLD)	Quantity of treated effluent to be disposed (KLD) and mode of disposal
Domestic Sewage	12.000	NIL	11.000 Gardening and Land Scaping

- 6 That the Domestic Sewage shall be treated before disposal so as to conform to the standards prescribed by the Board as notified under the Environment (Protection) Act-1986 for disposal **Into Inland Surface Water**. The main parameters for regular monitoring shall be as under:

Parameters	Standards
pH Value	Between 5.5 to 9.0
Phenolic Compounds (as C ₆ H ₅ OH)	Not to exceed 1.0 mg/l
Biochemical Oxygen Demand (3 days at 27C)	Not to exceed 10 mg/l
Chemical Oxygen Demand	Not to exceed 50 mg/l
Fecal Coliform	not to exceed 230 MPN/100 ml
N total	10 mg/l
Total Suspended Solids	Not to exceed 20 mg/l



Regional Office Bhiwadi
Rajasthan State Pollution Control Board
 G.O-1, Phase-Z, RIICO Industrial Area, Bhiwadi
 Phone: 01493-221435

Registered

File No : F(Tech)/KHAIRTHAL-TIJARA(Tijara)/8166(1)/2024-2025/192-193

Order No : 2024-2025/Bhiwadi/9445

Dispatch Date: May 2 2024 6:49PM

Unit Id : 131899

- 7
 - A. That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 3.52 Crores and in case of any increase in the project cost, the unit shall take/obtain modification in consent after paying fee as applicable.
 - B. That no treated/untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/ other gainful purposes.
 - C. That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
 - D. That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
 - E. That the unit shall undertake plantation in two rows of suitable species all along the periphery of the site of the FSTP to control foul smell.
 - F. That above stated effluent standards are subject to the Hon'ble NGT order dated 30/4/2019 in matter of O.A. no 1069/2018 Nitin Shankar Deshpande Vs Union of India and Ors That efforts should be made to reuse the treated sewage to the maximum possible extent and minimize its discharge.
- 8
 - A. That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
 - B. That the industry shall not dig/install any borewell for abstraction of Ground water without prior permission from Central Ground Water Authority and industry shall comply with the guidelines/directions/provisions of CGWA (Central Ground Water Authority) for abstraction of ground water.
 - C. That a sign Board showing the name, address and capacity of the FSTP shall be provided and maintained at the entrance of the site.
 - D. That grant of consent shall not absolve the project proponent from making Compliance of other statutory obligations prescribed under any other law or directions of courts or any other instrument for the time being in force.
 - E. That this consent is issued to the unit on the basis of documents submitted by the applicant, if any discrepancies is found in the document/facts submitted by the unit then the consent shall be treated as revoked without any further notice and the unit shall be liable for action in accordance with provisions of law.
 - F. That Project proponent shall apply for consent to operate 02 month before of FSTP is being operated.
- 9 That the industry shall not install any source of air pollution including D.G. Sets without obtaining prior Consent to Establish & Consent to Operate from the Board under the provision of Air (Prevention & Control of Pollution) Act'81.

Page 3 of 6

Signature added
 Digitally signed by
 Anil Kumar
 DN: cn=Anil Kumar, o=RS
 13/05/2024 12:30



Regional Office Bhiwadi
Rajasthan State Pollution Control Board
 G.O-1, Phase-2, RIICO Industrial Area, Bhiwadi
 Phone: 01493-221435

Registered

File No : F(Tech)/KHAIRTHAL-TIJARA(Tijara)/8166(1)/2024-2025/192-193

Order No : 2024-2025/Bhiwadi/9445

Dispatch Date: May 2 2024 6:49PM

Unit Id : 131899

- 10 A. That this Consent to establish of consent application shall cease to be valid in case of any change in product/ process/ operation/raw material/ capacity/ area or in information/ document submitted/uploaded at the time of seeking consent.
 B. That efforts should be made to reuse the treated sewage to the maximum possible extent and minimize its discharge. A network of pipelines should be laid from the treated sewage collection tank to fields for utilisation.
- 11 That the industry shall comply all the applicable directions issued by CAQM-NCR (Commission for Air quality management) from time to time.
- 12 1. That proper logbook of STP shall be maintained and record of daily consumption of chemicals and running hours of STP shall be maintained.
 2. That flow meters shall be maintained at inlet & outlet of STP and daily record of the same shall be maintained.
 3. That the water flow meters shall be provided at all suitable points to measure quantity of daily ground water abstraction, water consumption, domestic waste water generation, Daily record of the same shall be maintained and to be submitted to the Board.
 4. That trained/skilled operators/supervisors shall be employed to operate the STP.
- 13 1. That any information submitted/mentioned in the consent application form/declaration/ affidavit/ supporting enclosures if found incorrect later on, shall make the industry liable for legal action under section 42 of the Water Act,1974 and section 38 of the Air Act,1981.
 2. That the industry shall not establish any plant / process or does not carry out any activity which attracts environmental clearance under provisions of the EIA notification dated 14/09/2006.
 3. That this consent is subject to any order or direction from Hon'ble Supreme Court/High Court/NGT or any other Court of the competent jurisdiction.
 4. That this consent is valid subject to the fulfillment of the other entire statutory requirement in other laws/acts/rules as applicable & all orders, directions, guidelines and standards laid down by the board from time to time shall be complied with.
 5. That this consent will not be used as evidence for ascertaining the land title and its use.
 6. That this Consent does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument of force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time being in force, rests with the industry/unit/project proponent.

Signature noted
 Date: 05/05/2024
 Time: 12:00 PM
 Page 4 of 6



Regional Office Bhiwadi
Rajasthan State Pollution Control Board
G.O-I, Phase-2, RIICO Industrial Area, Bhiwadi
Phone: 01493-221435

Registered

File No : F(Tech)/KHAIRTHAL-TIJARA(Tijara)/8166(1)/2024-2025/192-193

Order No : 2024-2025/Bhiwadi/9445

Dispatch Date: May 2 2024 6:49PM

Unit Id : 131899

14 That, notwithstanding anything provided hereinabove, the State Board shall have the power and reserves its right, as contained **Section 27(2) of the Water Act** to review anyone or all of the conditions imposed here in above and to make such variation as it deems fit for the purpose of compliance of the **Water Act**.

15 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.

16 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Establish** shall also be subject, besides the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The project proponent will comply with the provisions of the **Water Act** and to such other conditions as may, from time to time, be specified by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Establish** and project proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

Yours sincerely,

Regional Officer[Bhiwadi]

(A): **Copy to:-**

1 Master File.

Page 5 of 6

Signature valid
 Digitally signed by
 Rajendra Singh
 DN: cn=Rajendra Singh,
 o=Rajasthan State Pollution Control Board,
 ou=Regional Office Bhiwadi, email=rajendra.singh@rajpcb.org



Regional Office Bhiwadi
Rajasthan State Pollution Control Board
G.O-1, Phase-2, RIICO Industrial Area, Bhiwadi
Phone: 01493-221435

Registered

File No : F(Tech)/KHAIRTHAL-TIJARA(Tijara)/8166(1)/2024-2025/192-193

Order No : 2024-2025/Bhiwadi/9445

Dispatch Date: May 2 2024 6:49PM

Unit Id : 131899

Regional Officer[Bhiwadi]



APPENDIX 4: ENVIRONMENTAL SITE INSPECTION REPORT Report 01

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP) Sub-Project Name – Water and Sewer Network Connections		CONTRACT NUMBER: RSTDIP/ABR/01			
DATE: 23/01/2024		SECTOR: Water and Sewage Network			
LOCATION (Name of Sites Visited): Abu Road Town		Contractor: M/s L&T			
PROJECT ACTIVITY: EMI and Other works		Project Activity Stage- Construction Stage Site visit has done by- Mr. Amit Kumar Chauhan (Environmental Safeguard Support).			
Monitoring Items		Compliance			
Compliance marked as Yes/No/Not applicable (NA)/Partially Implemented (PI)		YES	NO	NA	PI
EHS supervisor appointed by contractor and available on site		✓			
Construction site management plan (spoils, safety, schedule, equipment etc.,) prepared		✓			
Traffic management plan prepared			✓		
Dust is under control		✓	✓		
Excavated soil properly placed within minimum space		✓			
The construction area is confined; no traffic/pedestrian entry was observed		✓			
Surplus soil/debris/waste is disposed of without delay		✓			
Construction material (sand/gravel/aggregate) brought to the site as & when required only		✓			
Tarpaulins used to cover sand & other loose material when transported by vehicles			✓		
After unloading, wheels & undercarriage of vehicles cleaned prior to leaving the site			✓		
No chance finds encountered during excavation		✓			
Work is planned in consultation with traffic police		✓			
Work is not being conducted during heavy traffic		✓			
Work at a stretch is completed within a day (excavation, pipe laying & backfilling)		✓			
Pipe trenches are not kept open unduly		✓			
Road is not completely closed; work is conducted on edge; at least one line is kept open				✓	
Road is closed; alternative route provided & public informed if needed, information board provided		✓			
Pedestrian access to houses is not blocked due to pipe laying		✓			

Spaces left in between trenches for access	✓			
Wooden planks/metal sheets provided across trench for pedestrian	✓			
No public/unauthorized entry observed in work site	✓			
Children safety measures (barricades, security) in place at works in residential areas	✓			
Prior public information provided about the work, schedule and disturbances	✓			
Caution/warning board provided on site	✓			
Guards with red flag provided during work at busy roads	✓			
Workers using appropriate PPE (boots, gloves, helmets, ear muffs etc.)	✓	✓		
Workers conducting or near heavy noise work is provided with ear muffs			✓	
Contractor is following standard & safe construction practices	✓			
Deep excavation is conducted with land slip/protection measures	✓			
First aid facilities are available on site and workers informed		✓		
Drinking water provided at the site	✓			
Toilet facility provided at the site		✓		
A separate toilet facility is provided for women workers		✓		
Workers camps are maintained cleanly	✓			
Adequate toilet & bath facilities provided		✓		
The contractor employed local workers as far as possible	✓			
Worker's camp set up with the permission of PIU	✓			
Adequate housing provided	✓			
Sufficient water provided for drinking/washing/bath	✓			
No noisy work is conducted in the nights	✓			
Local people informed of noisy work	✓			
No blasting activity conducted			✓	
Pneumatic drills or other equipment creating vibration is not used near old/risky buildings			✓	

Submitted by:**Name: Dr. Mahaveer Saini****Designation: Environmental Safeguard Professional****CMSC-II, Jodhpur Zone**

Report 02

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP) Sub-Project Name – Water and Sewer Network Connections		CONTRACT NUMBER: RSTDIP/SHR/01			
DATE: 19/01/2024		SECTOR: Water and Sewage Network			
LOCATION (Name of Sites Visited): Sirohi Town		Contractor: M/s L&T			
PROJECT ACTIVITY: EMI and Other works		Project Activity Stage- Construction Stage Site visit has done by- Mr. Amit Kumar Chauhan (Environmental Safeguard Support).			
Monitoring Items		Compliance			
Compliance marked as Yes/No/Not applicable (NA)/Partially Implemented(PI)		YES	NO	NA	PI
EHS supervisor appointed by contractor and available on site		✓			
Construction site management plan (spoils, safety, schedule, equipment etc.,) prepared		✓			
Traffic management plan prepared			✓		
Dust is under control		✓	✓		
Excavated soil properly placed within minimum space		✓			
The construction area is confined; no traffic/pedestrian entry was observed		✓			
Surplus soil/debris/waste is disposed of without delay		✓			
Construction material (sand/gravel/aggregate) brought to the site as & when required only		✓			
Tarpaulins used to cover sand & other loose material when transported by vehicles			✓		
After unloading , wheels & undercarriage of vehicles cleaned prior to leaving the site			✓		
No chance finds encountered during excavation		✓			
Work is planned in consultation with traffic police		✓			
Work is not being conducted during heavy traffic		✓			
Work at a stretch is completed within a day (excavation, pipe laying & backfilling)		✓			
Pipe trenches are not kept open unduly		✓			
Road is not completely closed; work is conducted on edge; at least one line is kept open				✓	
Road is closed; alternative route provided & public informed if needed, information board provided		✓			
Pedestrian access to houses is not blocked due to pipe laying		✓			
Spaces left in between trenches for access		✓			
Wooden planks/metal sheets provided across trench for		✓			

pedestrian				
No public/unauthorized entry observed in work site	✓			
Children safety measures (barricades, security) in place at works in residential areas	✓			
Prior public information provided about the work, schedule and disturbances	✓			
Caution/warning board provided on site	✓			
Guards with red flag provided during work at busy roads	✓			
Workers using appropriate PPE (boots, gloves, helmets, ear muffs etc.)	✓	✓		
Workers conducting or near heavy noise work is provided with ear muffs			✓	
Contractor is following standard & safe construction practices	✓			
Deep excavation is conducted with land slip/protection measures	✓			
First aid facilities are available on site and workers informed	✓			
Drinking water provided at the site	✓			
Toilet facility provided at the site	✓			
A separate toilet facility is provided for women workers	✓			
Workers camps are maintained cleanly	✓			
Adequate toilet & bath facilities provided	✓			
The contractor employed local workers as far as possible	✓			
Workers camp set up with the permission of PIU	✓			
Adequate housing provided	✓			
Sufficient water provided for drinking/washing/bath	✓			
No noisy work is conducted in the nights	✓			
Local people informed of noisy work	✓			
No blasting activity conducted			✓	
Pneumatic drills or other equipment creating vibration is not used near old/risky buildings			✓	

Submitted by:**Name: Amit Chouhan****Designation: Environmental Safeguard Support,****CMSC-II, Jodhpur Zone**

Report 03

PROJECT NAME: Rajasthan Urban Infrastructure Development Project (RUIDP) Sub-Project Name – Water supply and Sewer Network Connections	CONTRACT NUMBER: RSTDIP/CS/03			
DATE: 26/02/2024	SECTOR: Water and Sewage Network			
LOCATION (Name of Sites Visited): Ratangarh Town	Contractor: M/s L&T			
PROJECT ACTIVITY: EMI and Other works	Project Activity Stage- Construction Stage Site visit has done by- Mr. Ugrasen Kumar (Environmental Safeguard Support).			
Monitoring Items	Compliance			
Compliance marked as Yes/No/Not applicable (NA)/Partially Implemented(PI)	YES	NO	NA	PI
EHS supervisor appointed by contractor and available on site	✓			
Construction site management plan (spoils, safety, schedule, equipment etc.,) prepared	✓			
Traffic management plan prepared	✓			
Dust is under control		✓		
Excavated soil properly placed within minimum space	✓			
The construction area is confined; no traffic/pedestrian entry was observed	✓			
Surplus soil/debris/waste is disposed of without delay	✓			
Construction material (sand/gravel/aggregate) brought to the site as & when required only	✓			
Tarpaulins used to cover sand & other loose material when transported by vehicles		✓		
After unloading , wheels & undercarriage of vehicles cleaned prior to leaving the site		✓		
No chance finds encountered during excavation	✓			
Workers conducting or near heavy noise work is provided with ear muffs			✓	
Contractor is following standard & safe construction practices	✓			
Deep excavation is conducted with land slip/protection measures	✓			
Adequate toilet & bath facilities provided		✓		
No blasting activity conducted			✓	
Pneumatic drills or other equipment creating vibration is not used near old/risky buildings			✓	
Toilet facility provided at the site		✓		
Drinking water provided at the site	✓			
A separate toilet facility is provided for women workers			✓	
First aid facilities are available on site and workers informed	✓			
Workers camps are maintained cleanly			✓	
Work is planned in consultation with traffic police	✓			

Work is not being conducted during heavy traffic	✓			
Work at a stretch is completed within a day (excavation, pipe laying & backfilling)	✓			
Pipe trenches are not kept open unduly	✓			
Road is not completely closed; work is conducted on edge; at least one line is kept open	✓			
Road is closed; alternative route provided & public informed if needed, information board provided	✓			
Pedestrian access to houses is not blocked due to pipe laying	✓			
Spaces left in between trenches for access	✓			
Wooden planks/metal sheets provided across trench for pedestrian	✓			
No public/unauthorized entry observed in work site	✓			
Children safety measures (barricades, security) in place at works in residential areas	✓			
Prior public information provided about the work, schedule and disturbances	✓			
Caution/warning board provided on site	✓			
Guards with red flag provided during work at busy roads	✓			
The contractor employed local workers as far as possible	✓			
Workers camp set up with the permission of PIU		✓		
Adequate housing provided		✓		
Sufficient water provided for drinking/washing/bath	✓			
No noisy work is conducted in the nights	✓			
Local people informed of noisy work	✓			

Submitted by:

Name: Ugrasen Kumar

Designation: Environmental Safeguard Support,

CMSC-II, Jodhpur Zone

Report 04

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP) Sub-Project Name – Integrated Water and Sewer Network Connections		CONTRACT NUMBER:			
DATE: 05/03/2024		SECTOR: Water and Sewage Network			
LOCATION (Name of Sites Visited): Sardarshahar Town		Contractor: M/s L&T			
PROJECT ACTIVITY: EMI and Other works		Project Activity Stage- Construction Stage Site visit has done by- Mr. Ugrasen Kumar (Environmental Safeguard Support).			
Monitoring Items		Compliance			
Compliance marked as Yes/No/Not applicable (NA)/Partially Implemented(PI)		YES	NO	NA	PI
EHS supervisor appointed by contractor and available on site		✓			
Construction site management plan (spoils, safety, schedule, equipment etc.,) prepared		✓			
Traffic management plan prepared				✓	
Dust is under control		✓	✓		
Excavated soil properly placed within minimum space		✓			
The construction area is confined; no traffic/pedestrian entry was observed		✓			
Surplus soil/debris/waste is disposed of without delay		✓			
Construction material (sand/gravel/aggregate) brought to the site as & when required only		✓			
Tarpaulins used to cover sand & other loose material when transported by vehicles			✓		
After unloading , wheels & undercarriage of vehicles cleaned prior to leaving the site			✓		
No chance finds encountered during excavation		✓			
Work is planned in consultation with traffic police		✓			
Work is not being conducted during heavy traffic		✓			
Work at a stretch is completed within a day (excavation, pipe laying & backfilling)		✓			
Pipe trenches are not kept open unduly		✓			
Road is not completely closed; work is conducted on edge; at least one line is kept open				✓	
Road is closed; alternative route provided & public informed if needed, information board provided				✓	
Pedestrian access to houses is not blocked due to pipe laying		✓			
Spaces left in between trenches for access		✓			

Wooden planks/metal sheets provided across trench for pedestrian	✓			
No public/unauthorized entry observed in work site	✓			
Children safety measures (barricades, security) in place at works in residential areas	✓			
Prior public information provided about the work, schedule and disturbances	✓			
Caution/warning board provided on site	✓			
Guards with red flag provided during work at busy roads	✓			
Workers using appropriate PPE (boots, gloves, helmets, ear muffs etc.)	✓	✓		
Workers conducting or near heavy noise work is provided with ear muffs	✓			
Contractor is following standard & safe construction practices	✓			
Deep excavation is conducted with land slip/protection measures	✓			
First aid facilities are available on site and workers informed		✓		
Drinking water provided at the site	✓			
Toilet facility provided at the site		✓		
A separate toilet facility is provided for women workers		✓		
Workers camps are maintained cleanly	✓			
Adequate toilet & bath facilities provided	✓			
The contractor employed local workers as far as possible	✓			
Workers camp set up with the permission of PIU	✓			
Adequate housing provided	✓			
Sufficient water provided for drinking/washing/bath	✓			
No noisy work is conducted in the nights	✓			
Local people informed of noisy work	✓			
No blasting activity conducted			✓	
Pneumatic drills or other equipment creating vibration is not used near old/risky buildings			✓	

Submitted by:

Name: Ugrasen Kumar

Designation: Environmental Safeguard Support,

CMSC-II, Jodhpur Zone

Report 05

Environmental Site Inspection Checklist

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP) Sub-Project Name – Water and Sewer Network Connections		CONTRACT NUMBER: RSTDIP/ABR/01			
DATE: 23/01/2024		SECTOR: Water and Sewage Network			
LOCATION (Name of Sites Visited): Abu Road Town		Contractor: M/s L&T			
PROJECT ACTIVITY: EMI and Other works		Project Activity Stage- Construction Stage Site visit has done by- Dr. Mahaveer Saini and Amit Kumar Chauhan (Environmental Safeguard Professional and Support).			
Monitoring Items		Compliance			
Compliance marked as Yes/No/Not applicable (NA)/Partially Implemented (PI)	YES	NO	NA	PI	
EHS supervisor appointed by contractor and available on site	✓				
Construction site management plan (spoils, safety, schedule, equipment etc.,) prepared	✓				
Traffic management plan prepared		✓			
Dust is under control	✓	✓			
Excavated soil properly placed within minimum space	✓				
The construction area is confined; no traffic/pedestrian entry was observed	✓				
Surplus soil/debris/waste is disposed of without delay	✓				
Construction material (sand/gravel/aggregate) brought to the site as & when required only	✓				
Tarpaulins used to cover sand & other loose material when transported by vehicles		✓			
After unloading, wheels & undercarriage of vehicles cleaned prior to leaving the site		✓			
No chance finds encountered during excavation	✓				
Work is planned in consultation with traffic police	✓				
Work is not being conducted during heavy traffic	✓				
Work at a stretch is completed within a day (excavation, pipe laying & backfilling)	✓				
Pipe trenches are not kept open unduly	✓				
Road is not completely closed; work is conducted on edge; at least one line is kept open			✓		
Road is closed; alternative route provided & public informed if needed, information board provided	✓				

Pedestrian access to houses is not blocked due to pipe laying	✓			
Spaces left in between trenches for access	✓			
Wooden planks/metal sheets provided across trench for pedestrian	✓			
No public/unauthorized entry observed in work site	✓			
Children safety measures (barricades, security) in place at works in residential areas	✓			
Prior public information provided about the work, schedule and disturbances	✓			
Caution/warning board provided on site	✓			
Guards with red flag provided during work at busy roads	✓			
Workers using appropriate PPE (boots, gloves, helmets, ear muffs etc.)	✓	✓		
Workers conducting or near heavy noise work is provided with ear muffs			✓	
Contractor is following standard & safe construction practices	✓			
Deep excavation is conducted with land slip/protection measures	✓			
First aid facilities are available on site and workers informed		✓		
Drinking water provided at the site	✓			
Toilet facility provided at the site		✓		
A separate toilet facility is provided for women workers		✓		
Workers camps are maintained cleanly	✓			
Adequate toilet & bath facilities provided		✓		
The contractor employed local workers as far as possible	✓			
Worker's camp set up with the permission of PIU	✓			
Adequate housing provided	✓			
Sufficient water provided for drinking/washing/bath	✓			
No noisy work is conducted in the nights	✓			
Local people informed of noisy work	✓			
No blasting activity conducted			✓	
Pneumatic drills or other equipment creating vibration is not used near old/risky buildings			✓	

Submitted by:

Name: Dr. Mahaveer Saini

Designation: Environmental Safeguard Professional

CMSC-II, Jodhpur Zone

Report 06
ENVIRONMENTAL SITE INSPECTION CHECKLIST

PROJECT NAME: Rajasthan Urban Infrastructure Development Project (RUIDP) Sub-Project Name – Water supply and Sewer Network Connections	CONTRACT NUMBER: RSTDIP/CS/03			
DATE: 19/03/2024	SECTOR: Water and Sewage Network			
LOCATION (Name of Sites Visited): Ratangarh Town	Contractor: M/s L&T			
PROJECT ACTIVITY: EMI and Other works	Project Activity Stage- Construction Stage Site visit has done by- Mr. Ugrasen Kumar (Environmental Safeguard Support).			
Monitoring Items	Compliance			
Compliance marked as Yes/No/Not applicable (NA)/Partially Implemented(PI)	YES	NO	NA	PI
EHS supervisor appointed by contractor and available on site	✓			
Construction site management plan (spoils, safety, schedule, equipment etc.,) prepared	✓			
Traffic management plan prepared	✓			
Dust is under control		✓		
Excavated soil properly placed within minimum space		✓		
The construction area is confined; no traffic/pedestrian entry was observed	✓			
Surplus soil/debris/waste is disposed of without delay	✓			
Construction material (sand/gravel/aggregate) brought to the site as & when required only	✓			
Tarpaulins used to cover sand & other loose material when transported by vehicles		✓		
After unloading , wheels & undercarriage of vehicles cleaned prior to leaving the site		✓		
No chance finds encountered during excavation	✓			
Workers conducting or near heavy noise work is provided with ear muffs			✓	
Contractor is following standard & safe construction practices	✓			
Deep excavation is conducted with land slip/protection measures	✓			
Adequate toilet & bath facilities provided	✓			
No blasting activity conducted			✓	
Pneumatic drills or other equipment creating vibration is not used near old/risky buildings			✓	
Toilet facility provided at the site	✓			

Drinking water provided at the site	✓			
A separate toilet facility is provided for women workers	✓			
First aid facilities are available on site and workers informed	✓			
Workers camps are maintained cleanly			✓	
Work is planned in consultation with traffic police	✓			
Work is not being conducted during heavy traffic	✓			
Work at a stretch is completed within a day (excavation, pipe laying & backfilling)	✓			
Pipe trenches are not kept open unduly	✓			
Road is not completely closed; work is conducted on edge; at least one line is kept open	✓			
Road is closed; alternative route provided & public informed if needed, information board provided	✓			
Pedestrian access to houses is not blocked due to pipe laying	✓			
Spaces left in between trenches for access	✓			
Wooden planks/metal sheets provided across trench for pedestrian	✓			
No public/unauthorized entry observed in work site	✓			
Children safety measures (barricades, security) in place at works in residential areas	✓			
Prior public information provided about the work, schedule and disturbances	✓			
Caution/warning board provided on site	✓		✓	
Guards with red flag provided during work at busy roads				
The contractor employed local workers as far as possible	✓			
Workers camp set up with the permission of PIU		✓		
Adequate housing provided		✓		
Sufficient water provided for drinking/washing/bath	✓			
No noisy work is conducted in the nights	✓			
Local people informed of noisy work	✓			

Submitted by:

Name: Ugrasen Kumar

Designation: Environmental Safeguard Support,

CMSC-II, Jodhpur Zone

Report 07
Environmental Site Inspection Checklist

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP) Sub-Project Name – Water and Sewer Network Connections	CONTRACT NUMBER: RSTDIP/SHR/01			
DATE: 19/01/2024	SECTOR: Water and Sewage Network			
LOCATION (Name of Sites Visited): Sirohi Town	Contractor: M/s L&T			
PROJECT ACTIVITY: EMI and Other works	Project Activity Stage- Construction Stage Site visit has done by- Mr. Amit Kumar Chauhan (Environmental Safeguard Support).			
Monitoring Items	Compliance			
Compliance marked as Yes/No/Not applicable (NA)/Partially Implemented(PI)	YES	NO	NA	PI
EHS supervisor appointed by contractor and available on site	✓			
Construction site management plan (spoils, safety, schedule, equipment etc.,) prepared	✓			
Traffic management plan prepared		✓		
Dust is under control	✓	✓		
Excavated soil properly placed within minimum space	✓			
The construction area is confined; no traffic/pedestrian entry was observed	✓			
Surplus soil/debris/waste is disposed of without delay	✓			
Construction material (sand/gravel/aggregate) brought to the site as & when required only	✓			
Tarpaulins used to cover sand & other loose material when transported by vehicles		✓		
After unloading , wheels & undercarriage of vehicles cleaned prior to leaving the site		✓		
No chance finds encountered during excavation	✓			
Work is planned in consultation with traffic police	✓			
Work is not being conducted during heavy traffic	✓			
Work at a stretch is completed within a day (excavation, pipe laying & backfilling)	✓			
Pipe trenches are not kept open unduly	✓			
Road is not completely closed; work is conducted on edge; at least one line is kept open			✓	
Road is closed; alternative route provided & public informed if needed, information board provided	✓			
Pedestrian access to houses is not blocked due to pipe laying	✓			
Spaces left in between trenches for access	✓			
Wooden planks/metal sheets provided across trench for pedestrian	✓			
No public/unauthorized entry observed in work site	✓			
Children safety measures (barricades, security) in place at	✓			

works in residential areas				
Prior public information provided about the work, schedule and disturbances	✓			
Caution/warning board provided on site	✓			
Guards with red flag provided during work at busy roads	✓			
Workers using appropriate PPE (boots, gloves, helmets, ear muffs etc.)	✓	✓		
Workers conducting or near heavy noise work is provided with ear muffs			✓	
Contractor is following standard & safe construction practices	✓			
Deep excavation is conducted with land slip/protection measures	✓			
First aid facilities are available on site and workers informed	✓			
Drinking water provided at the site	✓			
Toilet facility provided at the site	✓			
A separate toilet facility is provided for women workers	✓			
Workers camps are maintained cleanly	✓			
Adequate toilet & bath facilities provided	✓			
The contractor employed local workers as far as possible	✓			
Workers camp set up with the permission of PIU	✓			
Adequate housing provided	✓			
Sufficient water provided for drinking/washing/bath	✓			
No noisy work is conducted in the nights	✓			
Local people informed of noisy work	✓			
No blasting activity conducted			✓	
Pneumatic drills or other equipment creating vibration is not used near old/risky buildings			✓	

Submitted by:

Name: Amit Chouhan

Designation: Environmental Safeguard Support,

CMSC-II, Jodhpur Zone

Report 08
ENVIRONMENTAL SITE INSPECTION CHECKLIST

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP)	CONTRACT NUMBER: RSTDIP/MDW/03
Sub-project Name – Water Supply and Sewerage Project	
Date of Site Visits :- 26-30 March 2024	SECTOR: Water and Sewage
LOCATION (Name of Sites Visited): Mandawa Town	Contractor: M/s LNA-R&B (JV)
PROJECT ACTIVITY: SPS mechanical work under progress and SCADA Room Flooring work 'Water Supply Line Laying Work under Progress, Zone-3, Blower room Mechanical work STP. Pump Pedicel work at PHED campus, RAS & SAS Pump fitting at SBR, HDPE wall installation and chamber casting, AIR blower piping	Project Activity Stage- Construction Stage Site visit has done by- Mr. Yogesh Kumar Atreya Gender, Social Safeguard and Environment Support Staff, CMSC-01

Monitoring Items	Compliance			
Compliance marked as Yes/No/Not applicable(NA)/Partially Implemented(PI)	YES	NO	NA	PI
EHS supervisor appointed by contractor and available on site	✓			
Construction site management plan (spoils, safety, schedule, equipment etc.,) prepared	✓			
Traffic management plan prepared	✓			
Dust is under control	✓			
Excavated soil properly placed within minimum space		✓		
The construction area is confined; no traffic/pedestrian entry was observed	✓			
Surplus soil/debris/waste is disposed of without delay	✓			
Construction material (sand/gravel/aggregate) brought to the site as & when required only	✓			
Tarpaulins used to cover sand & other loose material when transported by vehicles		✓		
After unloading, wheels & undercarriage of vehicles cleaned prior to		✓		
No chance finds encountered during excavation	✓			
Work is planned in consultation with traffic police	✓			
Work is not being conducted during heavy traffic	✓			
Work at a stretch is completed within a day (excavation, pipe laying & backfilling)	✓			
Pipe trenches are not kept open unduly	✓			
Road is not completely closed; work is conducted on edge; at least one line is kept open	✓			
Road is closed; alternative route provided & public informed, information board provided	✓			
Pedestrian access to houses is not blocked due to pipe laying	✓			
Spaces left in between trenches for access	✓			
Wooden planks/metal sheets provided across trench for pedestrian	✓			
No public/unauthorized entry observed in work site	✓			
Children safety measures (barricades, security) in place at works in residential areas	✓			
Prior public information provided about the work, schedule and disturbances	✓			
Caution/warning board provided on site	✓			

Monitoring Items	Compliance			
Guards with red flag provided during work at busy roads	✓			
Workers using appropriate PPE (boots, gloves, helmets, ear muffs etc.)	✓			
Workers conducting or near heavy noise work is provided with ear muffs		✓		
Contractor is following standard & safe construction practices		✓		
Deep excavation is conducted with land slip/protection measures		✓		
First aid facilities are available on site and workers informed	✓			
Drinking water provided at the site	✓			
Toilet facility provided at the site		✓		
A separate toilet facility is provided for women workers	✓			
Workers camps are maintained cleanly	✓			
Adequate toilet & bath facilities provided	✓			
The contractor employed local workers as far as possible	✓			
Workers camp set up with the permission of PIU	✓			
Adequate housing provided		✓		
Sufficient water provided for drinking/washing/bath	✓			
No noisy work is conducted in the nights	✓			
Local people informed of noisy work	✓			
No blasting activity conducted		✓		
Pneumatic drills or other equipment creating vibration is not used near old/risky buildings		✓		

Submitted By:**Name: Yogesh Kumar Atreya****Designation: Gender, Social Safeguard and Environment Support Staff,
CMSC-I, Mandawa****Assistant Construction Manager****CMSC-01 Mandawa**

APPENDIX-5: COMPLIANCES OF ENVIRONMENTAL SELECTION CRITERIA

Components	Criteria	Design Considerations (if criterion is not met)	Compliance Status
All subprojects			
	Subproject will avoid potentially significant adverse impacts that are diverse, irreversible or unprecedented (ADB SPS Category A for environment).		Complied- All projects are under category B as per ADB SPS, no significant impact is envisaged from any sub project
	Comply with all requirements of ADB SPS 2009 and follow procedures set in this EARF.		Complied- EARF and ADB SPS is being complied in all sub projects
	Comply with relevant national, and local laws, rules and regulations regarding EIA, environmental protection, pollution prevention (water, air, noise, solid waste, etc.), wildlife protection, core labor standards, physical cultural resources, health and safety, and other laws in specific sectors as indicated below		Complied- Compliance of all relevant national and state laws, rules and regulations are being done in all sub projects
	Reflect inputs from public consultations	Refer to ADB SPS requirements on meaningful consultations ¹⁶	Complied- Consultations are being done in all stages of project
Location	Avoid involuntary resettlement by prioritizing rehabilitation over new construction using vacant government land where possible, and taking all possible measures in design and selection of site or alignment to avoid resettlement impacts	If cannot be avoided, prepare Resettlement Plan.	Complied- Only temporary impacts on livelihood is anticipated in sub projects for which Resettlement Plan is prepared
	Avoid or minimize the cutting of trees	If tree is to be cut, consider plantations in the ratio of at least 1:3	Being Complied- Tree cutting permission is being taken, where tree cutting is required, compensatory

¹⁶ Per ADB SPS, meaningful consultation is defined as “a process that (i) begins early in the project preparation stage and is carried out on an ongoing basis throughout the project cycle; (ii) provides timely disclosure of relevant and adequate information that is understandable and readily accessible to affected people; (iii) is undertaken in an atmosphere free of intimidation or coercion; (iv) is gender inclusive and responsive, and tailored to the needs of disadvantaged and vulnerable groups; and (v) enables the incorporation of all relevant views of affected people and other stakeholders into decision making, such as project design, mitigation measures, the sharing of development benefits and opportunities, and implementation issues”

			plantations will be done in the ratio of at least 1:3
Biodiversity	Avoid locating subprojects in critical habitats, such as, but not limited to, wildlife/bird sanctuaries, national parks, tiger reserves, elephant reserves, conservation reserves or core zone of biosphere reserves. It provides preliminary analysis using the International Biodiversity Assessment Tool (IBAT) key biodiversity areas, protected areas, IUCN red list species and likelihood of critical habitats per town. Should not directly affect environmentally protected areas, core zones of biosphere reserves and highly valued habitat	If criterion is not met, this is potential for Category A therefore alternate location should be considered. A Biodiversity Expert shall assess and confirm critical habitat qualification. It provides a Biodiversity Assessment Report prepared for a sample subproject (Abu Road water and sewerage subproject).	Complied- There are no ecological sensitive areas within the areas of project impact
	If work is proposed with the aim of improving the conservation or management of designated subproject sites (e.g. improved drainage), this must only be undertaken: (i) after a comprehensive study and development of management plans and criteria; and (ii) with the direct involvement and approval of national and local bodies responsible for the subproject site.		Not applicable
Physical Cultural Resources	Should not result in the destruction/damage of or encroachment onto physical cultural resources (PCR)¹⁷ such as archaeological monuments; heritage sites and movable or immovable objects, sites, structures, group of structures, and natural features and landscapes that have archaeological, paleontological, historical, architectural, religious, aesthetic or other cultural significance.	If town has potential PCR, conduct Heritage Impact Assessment (HIA). For legally protected PCRs: (i) if location is within 300 m of notified PCRs such as protected monuments/sites and there is no alternative, permissions from the ASI or State Department of Archaeology shall to be obtained prior to finalization	Being Complied— There are no any listed archaeological monuments within the impact area of any sub project. Heritage Impact Assessment is done

¹⁷ Physical cultural resources as defined as “movable or immovable objects, sites, structures, groups of structures, and natural features and landscapes that have archaeological, paleontological, historical, architectural, religious, aesthetic, or other cultural significance. Physical cultural resources may be located in urban or rural settings and may be above or below ground or under water. Their cultural interest may be at the local, provincial, national, or international level.”

		of detailed engineering design.	
Existing Facilities to be rehabilitated or expanded	Conduct environmental audit of existing facilities ¹⁸ per ADB SPS	For non-compliances identified in the environmental audit, provide corrective action for each area of concern including cost and schedule to be included in the subproject EMP.	Complied- Environmental audit of existing facilities has been done, where rehabilitation or upgradations works are proposed
Associated Facilities ¹⁹	Analyze environmental impacts and risks to be included in the IEE		Complied- environmental impact assessment of associated facilities done
Asbestos-containing materials (ACM) including, but not limited to, pipes, roofing, ceilings, insulation materials, excess pipes stored in PHED campuses, walls, etc.	Avoid handling or removing any ACM. Ensure asbestos concrete (AC) pipes facilities containing asbestos will not be disturbed and left in-situ. Appendix 6 provides asbestos management plan. RUDSICO shall include AMP in all contracts.	If ACM is suspected, asbestos verification by Asbestos Management Expert is required. Prepare site-specific asbestos management plan (AMP) prepared. Appendix 6 provides a AMP prepared for a sample subproject (Sardarshahar water and sewerage subproject).	Being Complied- AC pipes are not being used in the project and ACM management plan is prepared in all sub projects where there is possibility of encountering ACM
	When designing subproject infrastructure that involves excavation in urban areas the relevant authorities must be consulted to ascertain the location of any ACM prior to any subproject activity. Locations of new infrastructure must then be designed to avoid excavating or disturbing any ACM.		Being Complied- AC pipes in existing water supply networks are being ascertain after consultation from the PHED and existing AC pipes will remain in-situ and will not be removed from earth
Right-of-way	Locate water supply pipelines within the right of way (ROW) of other linear structures (roads, irrigation canals) as	If criterion is not met, prepare Resettlement Plan	Complied- water supply and waste water pipes are

¹⁸ ADB SPS Appendix 4 para 12 on Existing Facilities

¹⁹ ADB SPS Appendix 1 para 6 defines associated facilities as “not funded as part of the project (funding may be provided separately by the borrower/client or by third parties), and whose viability and existence depend exclusively on the project and whose goods or services are essential for successful operation of the project”

	far as possible, to reduce new land acquisition.	according to Resettlement Framework	planned in ROW only, no private land acquisition will be done for pipe laying works
	Ensure that pipelines ROW do not require land acquisition from individual farmers that is a significant proportion of their total land holding (>10%).	If criterion is not met, prepare Resettlement Plan according to Resettlement Framework	
Water Supply			
Sustainability	Utilize water sources at sustainable levels of abstraction only (i.e. without significant reductions in the quantity or quality of the source overall)	Water source sustainability or the concurrence from PHED should be provided in the subproject's IEE. Submit groundwater sustainability report and obtain permission from the Central Groundwater Board or the State Groundwater Board.	Complied- Ground water sustainability reports are obtained from ground water department, where ground water is being used as source
Quality (raw water, treated water)	Ensure that water supply to consumers comply with the national drinking water standards at all times and confirm this by regular monitoring at WTPs and in domestic premises.		Being Complied- WTPs are designed as per applicable standards for drinking waters and regular monitoring shall be done during operation
	Avoid using water sources that may be polluted by upstream users	Baseline raw water quality to be included in the IEE.	Complied- Raw water is being drawn where no pollution from upstream users
	Avoid water-use conflicts by not abstracting water that is used for other purposes (e.g. irrigation)	If there are other users, permits or clearance for the allocation should be provided in the IEE.	Complied
Location	As far as possible locate all new facilities – Water Treatment Plants (WTP), Tube Wells (TW), etc. away from houses, shops or any other premises used by people, thus establishing a buffer to reduce the effects of noise, dust and the visual appearance of the site.		Complied- all new facilities are away from houses, shops or other premises as far as possible
	Locate WTP at sites where there is no risk of flooding or other hazards that might impair functioning of the WTP or present a risk of damage to the WTP or the surrounding area		Complied- WTP sites are not having hazards of flooding
Design	Ensure that the water supply system improvements are combined with improvements in sewerage to deal with the increased discharge of domestic wastewater.		Complied- water supply and sewerage system are synchronized
Sewage System			
Location	Previous projects considered 500m as distance consideration from nearest habitation. This has been reduced to 100m considering facilities will be	In case of non-availability of suitable sites due to land and technical design constraints in already	Complied- STPs are at least 100 meters away from habitations, SBR

	located in developed areas and technology to be used. RSTDSP considered using Sequencing Batch Reactor (SBR) technology in STPs, which is proven to cause minimal odor as compared to other treatment technologies such as Waste Stabilization Pond or Activated Sludge Process. As far as possible, new Sewage Treatment Plants (STP) should be preferably 100m away from any inhabited areas, in locations where no urban expansion is expected in the next 20 years, thus establishing a buffer to reduce effects of odor, visual appearance or other nuisance of the site (this may be reviewed depending on the technology adopted for the treatment of effluent).	developed areas, where 100 m buffer is not available, following procedures shall be adopted and documented in order to finalize sites for implementation of project: (i) conduct alternate site analysis, justify the selected site; (ii) develop odor mitigation measures to prevent and control odor/air emissions – design measures, and operational practices that are feasible and practical in local conditions and include in IEE; (iii) develop layout plan with maximum buffer to nearby houses; (iv) provide a peripheral green buffer (at least three rows of trees within the STP compound); and (v) public information – consult local community, inform about the need, process adopted to select sites, its suitability, and measures adopted for odor prevention and control	technology is adopted in all STPs, dense plantation is taken in to consideration in the periphery of all STPs to reduce foul smell
	As far as possible Sewage Pumping Stations (SPS) and wet wells should be located preferably 50m from any inhabited areas and from sites such as hospitals, schools, temples, etc. to minimize nuisance impacts from odor, rodents, etc.	In case of non-availability of suitable sites due to land and technical design constraints in already developed areas, where 50 m buffer is not available, following procedures shall be adopted and documented in order to finalize sites for implementation of project: (i) conduct alternate site analysis, justify the selected site; (ii) develop odor mitigation measures to prevent and control odor/air emissions – design measures, and operational practices that are feasible and practical in local conditions and include in IEE; (iii) develop layout plan with maximum buffer to nearby houses; (iv) provide a peripheral green	Complied- SPS and well wells are designed at least 50 mts away from habitations and sensitive receptors

		buffer (at least three rows of trees within the pumping station compound); and (v) public information – consult local community, inform about the need, process adopted to select sites, its suitability, and measures adopted for odor prevention and control	
	Locate STP at sites where there is no risk of flooding or other hazards that might impair function of the STP or present a risk of damage to the STP or the surrounding area		Complied- selected STP sites are having no risk of flooding
Quality	Ensure that sewage is treated at all times to national waste water discharge standards and confirm this by regular monitoring of effluent from the STP.		Being Complied- all STPs are designed on latest parameters set by Government, provision of regular monitoring of treated effluent is taken in all projects
Treated water	Ensure that no wastewater is discharged into a water course in which it could be a hazard to downstream users (e.g. a waterway that is used as a source of water for domestic or municipal supply)	Reuse of treated effluent and sludge for beneficial uses will be encouraged in the project. During final design options and method of reuse will be developed and updated in IEE.	Will be Complied- Reuse of treated effluent from STP in beneficial purposes is taken in project designs
Sludge	Include measures to ensure the safe disposal of sewage sludge and if possible, to promote its safe and beneficial use as an agricultural fertilizer		Will be complied- reuse of treated sludge from STPs for beneficial purposes is considered in the project
Right-of-way for sewer network	Locate sewage pipelines within the right of way (ROW) of other linear structures (e.g. roads) wherever feasible, to reduce new land acquisition.	If criterion is not met, prepare Resettlement Plan according to Resettlement Framework	Complied- pipe lines are designed within ROW only, no land acquisition is required for pipe laying in any sub project
	Ensure that routes of sewage mains do not require land acquisition from individual farmers that is a significant proportion of their total land holding (10%)	If criterion is not met, prepare Resettlement Plan according to Resettlement Framework	

Appendix 6. Updated Asbestos Containing Material (ACM) Management Plan

A. Background of Asbestos

1. Asbestos is a collective name given to a group of minerals that occur naturally as fiber bundles and possess high tensile strength, flexibility, heat resistance, non-biodegradability with chemical and physical durability. Asbestos is hydrated silicates with complex crystal structures. It is found in two configurations: chrysotile (derived from serpentine minerals) and amphibole is a naturally occurring mineral with long thin fibers. Asbestos includes the mineral fibers chrysotile, amosite, crocidolite, tremolite, anthophyllite, actinolite and any of these materials that have been chemically treated or altered. The most abundant asbestos used in the world is chrysotile. The use of ACM propagated due to its economic viability.
2. Asbestos has been used in products, such as insulation for pipes (steam lines for example), floor tiles, building materials, and in vehicle brakes and clutches. Heavy exposures tend to occur in the construction industry and in ship repair, particularly during the removal of asbestos materials due to renovation, repairs, or demolition. Workers are also likely to be exposed during the manufacture of asbestos products (such as textiles, friction products, insulation, and other building materials) and during automotive brake and clutch repair work. In the construction industry, asbestos is found in installed products such as sprayed-on fireproofing, pipe insulation, floor tiles, cement pipe and sheet, roofing felts and shingles, ceiling tiles, fire-resistant drywall, drywall joint compounds, and acoustical products. Because very few asbestos containing products are being installed today, most worker exposures occur during the removal of asbestos and the renovation and maintenance of buildings and structures containing asbestos.
3. **Health Hazards of Asbestos.** Asbestos is well recognized as a health hazard and its use is now highly regulated by both OSHA and EPA. Asbestos fibers associated with these health risks are too small to be seen with the naked eye. Breathing asbestos fibers can cause a buildup of scar-like tissue in the lungs called asbestosis and result in loss of lung function that often progresses to disability and death. Asbestos also causes cancer of the lung and other diseases such as mesothelioma of the pleura which is a fatal malignant tumor of the membrane lining the cavity of the lung or stomach. Epidemiologic evidence has increasingly shown that all asbestos fiber types, including the most commonly used form of asbestos, chrysotile, causes mesothelioma in humans.
4. Asbestos fibers enter the body when a person inhales or ingests airborne particles that become embedded in the tissues of the respiratory or digestive systems. Exposure to asbestos can cause disabling or fatal diseases such as asbestosis, an emphysema-like condition; lung cancer; mesothelioma, a cancerous tumor that spreads rapidly in the cells of membranes covering the lungs and body organs; and gastrointestinal cancer. The symptoms of these diseases generally do not appear for 20 or more years after initial exposure.
5. Worker exposure to asbestos hazards are addressed in specific OSHA standards for the construction industry, general industry and shipyard employment sectors. These standards reduce the risk to workers by requiring that employers provide personal exposure monitoring to assess the risk and hazard awareness training for operations where there is any potential exposure to asbestos. Airborne levels of asbestos are never to exceed legal worker exposure limits. There is no "safe" level of asbestos exposure for any type of asbestos fiber. Asbestos exposures as short in duration as a few days have caused mesothelioma in humans. Every occupational exposure to asbestos can cause injury of disease; every occupational exposure

to asbestos contributes to the risk of getting an asbestos related disease. Permissible Exposure Limit (PEL) for asbestos is 0.1 fibers per cubic centimeter of air as an eight hour time weighted average (TWA), with an excursion limit (EL) of 1.0 asbestos fiber per cubic centimeter over a 30 minutes period.

6. Where there is exposure, employers are required to further protect workers by establishing regulated areas, controlling certain work practices and instituting engineering controls to reduce the airborne levels. The employer is required to ensure exposure is reduced by using administrative controls and provide for the wearing of personal protective equipment. Medical monitoring of workers is also required when legal limits and exposure times are exceeded.

B. Purpose of ACM Management Plan

7. The purpose of this Asbestos Management Plan (AMP) is to identify, use appropriate methodology and scientifically handling /disposal of the Asbestos Containing Materials (ACM) in order to comply with the applicable National legislation and International standards in sync with norms of ADB's SPS 2009. ADB has mandated as per prohibit the investment activities list - production of, trade in, or use of un-bonded asbestos fibers is deliberated. As per SPS 2009 Safeguard Requirement 1, it is emphasized "that the borrower/ client will provide workers with a safe and healthy working environment" in the work areas with accounted risks inherent to the work zone and defined safety instructions and standard operating procedures identifying roles and responsibilities.

C. Regulatory Frameworks for Asbestos Containing Materials

8. In India, there are several legislations that regulate the use and handling of asbestos as applicable, namely:
 - The Supreme Court of India – Banned ACM use in January 21, 2011.
 - National Green Tribunal - In pursuant to the above order, in 2015, NGT issued an order- "that there is no asbestos mining presently operational anywhere in the country and the operations of the mines of associated minerals with asbestos has also been halted."
 - Environmental (Protection) Act (1986) - Environmental monitoring.
9. Different standards applicable to the project is given in **Table-1** below-

Table.1: REGULATORY FRAMEWORK, STANDARDS AND PROTOCOL

Government of India Laws, Regulations and standards on Asbestos Applicable to the projects	Requirements for the project
IS 11768: 1986/ 2005: Recommendations for disposal of asbestos waste material	The standard emphasis that every employer who undertakes work which is liable to generates asbestos containing waste, shall undertake adequate steps to prevent and /or reduce the generation of airborne dust during handling, storing, transportation and final disposal of final disposal of asbestos and asbestos containing products. • The crux is waste avoidance: the practice inculcated should focus on the minimal waste generation. • Waste Collection: In the project circumstance, the waste

	is referred to the damaged powered asbestos which will be collected in the Permissible plastic bags to be disposed off to the nearest TSDF facilities.
IS 12081: Pictorial Warning to be implemented on equipment containing Asbestos Contaminated Products.	The objective of the caution is to make the person handling to take all pre-cautionary measures and make them aware of all the possible risk. 
IS 11451: Safety and Health Requirements related to Occupational Exposure to Asbestos contaminated Products.	In the project the norms pertaining to limiting number of hours working with ACM will be 8.0 hrs/48 hrs a week and the medical examination has to be periodic, the environmental monitoring has to be done as per the protocol. The safety at work place shall be enforced.
IS 11768: Waste Disposal Procedure for Asbestos Containing Products.	The protocol pertaining to disposal of the waste is emphasized, the collection of ACM powered will be in permissible plastic bags, which will be twisted tight at the neck so that the wear and tear due to abrasion will be minimum and the transportation of the asbestos waste has to be done by the authorized vendor to the approved landfill site that in the project case id TSDF.
Sampling of asbestos fiber (as per BIS-11450) has to be done regularly using personal sampler and determined using phase contrast microscope.	The sampling and analysis protocol is emphasized. Details are given as above.

D. Inventory of ACMs in Sardarshahar

- Site visit of Sardarshahar town was conducted on 20.12.2022 along with SCE of CMSC-II Supt. Engineers, Contractor (L&T) safety staff. During visit no asbestos containing materials were present/ found throughout all sites. Photographs of site visit at different work sites/ subproject component is given and enclosed as **Annexure-3**.

11. Further; for the assessment of presence of AC pipes in existing water supply networks, Office of the PIU was requested to provide information for the same from PHED vide letter no. RUIDP/PIU/SRD/929-936 dated 23.12.2021 & RUIDP/PIU/SRD/1350 dated 11.07.2022, respectively. Details of existing AC pressure pipeline has been provided by Executive Engineer, Public Health Engineering Department (PHED), Sardarshahar, District-Churu, Rajasthan informed vide their letter no. 2356 dated 12.01.2023 that total 10 kms AC pipes are present/ operational of different diameters (ranging from 80-125mm dia.) in the existing water supply system in the town as per record (refer **Annexure-2**). Therefore this 10 km AC pipe line is the only matter of concern for Sardarshahar, which need ACM management plan.

E. Provisions in the RSTDSP Project Regarding ACMs

12. Under RSTDSP projects, improvement in water supply system has been planned in the entire municipal areas of town. There is provision of replacement of entire AC pipes (irrespective of size, condition, diameter and age) and lay pipeline of HDPE/PVC/ uPVC as per contract specifications. Now, as the production and use of AC pipes is banned Pan-India, old/used AC pipes are of no use, therefore it is general practice that old AC pipes are not removed from the existing underground position and left in-situ and new proposed pipes are laid parallel to old AC pipes. Nevertheless, there are possibilities (like where there is not sufficient space to lay new pipes parallel to existing old AC pipes e.g. in narrow lanes and old city areas); that existing AC pipes are needed to be removed from their existing underground position to lay new pipe lines. In all such cases (though exceptional) mitigation measures will be required for handling, storage and disposal of ACMs in a safe manner to avoid health hazards to workers and nearby habitants. Following mitigation measures are suggested for the same.

F. ACM Removal procedures

13. ACM removal has to be checked in sync with the design and emphasis has to be laid to avoid the removal of ACM, in case it is unavoidable, then all the requisite safety measures are to be adopted as given below:
- Inform the Asbestos Expert/ HSE Expert prior to removal.
 - Isolate the area with access to only trained staff/ employees under supervision of Asbestos/ HSE Expert.
 - Exhibit all warnings
 - Undertaken Asbestos fiber Monitoring
 - The trained Employees have to be deputed for removal of ACM.
 - The removal ACM material has to be check with the status and extent of damage.
 - Efforts should be made to remove the ACM as minimal as possible.
 - The ACM removal has to be manual; it should neither be cut nor drilled.
 - All removal operation should be undertaken with ACM in wet condition.
 - The removed ACM will then be labeled and placed on permissible plastic sheet. It should not be put on ground directly.
 - The dimension of plastic sheet should be larger than the ACM placed.
 - If the ACM pipe is not damaged as about 4.0ft and above, the ACM will be subjected for in-situ disposal.
 - If the ACM is damaged and broken then it has to be packed in permissible plastic bags and disposed off to TSDF.
 - Prior to disposal it can be stored in isolated room-showing board of-Hazardous waste

storage room.

- The hazardous waste to be disposed off to TSDF should not be stored over 90 days after the removal date of ACM at site.
- All the safety procedures and safety gears should be worn by all the employees engaged in the ACM Removal operation.
- The Asbestos fiber monitoring, soil monitoring has to be undertaken during the operation as well.
- The process of removal of ACM will be completed after the removed ACM and its suitably disposed off either in-situ or to the isolated room prior to disposal at TSDF.
- Post ACM Removal asbestos fiber monitoring has to be undertaken to ensure the work zone is safe to resume further operations.

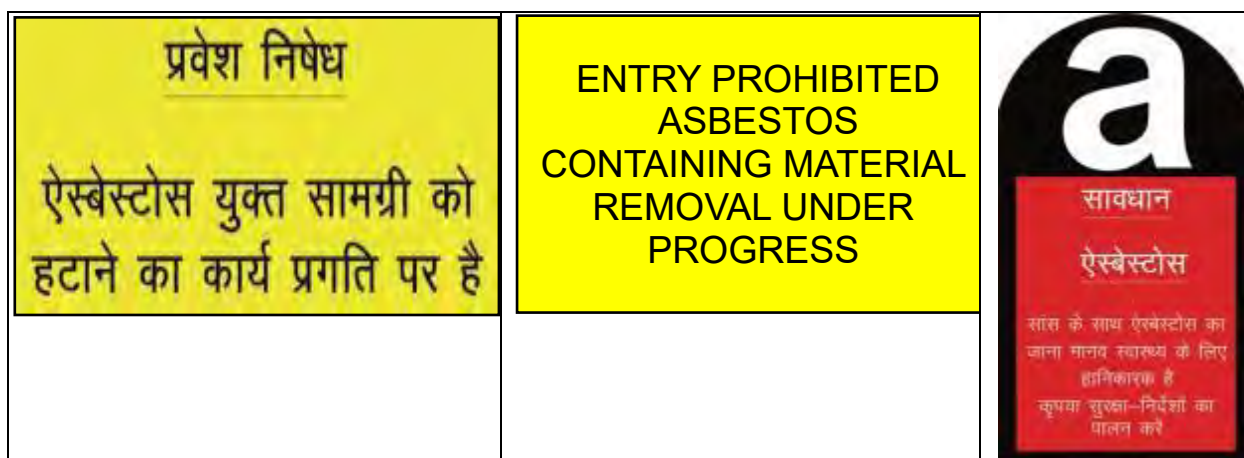


Figure 1: Asbestos warning signage during removal of ACM from site

G. Safe Practices in Handling ACM

14. Proper handling and PPE:

- Cover up and wear PPE (Personal Protection Equipment) including respirator or dust mask.
- Make sure the mask has two straps to hold it firmly in place. Don't use masks that only have one.
- Also wear a Hard hat, gloves, disposable coveralls with a hood, and safety glasses or goggles to protect eyes
- Do not eat, drink or smoke in the work area as you may inhale or eat dust. Wash your hands and face with soap and water before meal breaks and when finished work for the day.
- Do not use power tools Asbestos fibers can be released if power tools are used for anything other than the removal of screws.
- Do not water blast or scrub with a stiff broom or brush. It is illegal to water blast asbestos cement sheets. If the material has been accidentally water blasted or has suddenly deteriorated in some way, you should call a licensed asbestos removal DBO Operator
- Wet gently with water when removing asbestos cement pipes, use a pump spray to lightly dampen the pipes and keep the dust down. Remember: Not to water blast asbestos cement materials.
- Avoid drilling and cutting into asbestos products.
- Do not drill holes through and never cut instead remove the entire product and replace it

with a non-asbestos product.

- Don't drop fiber pipes remove them carefully, Lower them to the ground, don't drop them, to minimize breakage.
- Lay plastic sheeting under the work area to prevent any dust contaminating the ground. Use 200 micron thick plastic sheeting or bags or as permissible these must not be made from recycled materials or re-used for any other purpose.
- The work area has to be barricaded and there should be no un-authorized person allowed. Only Trained ACM expert should be allowed to handle the ACM along with EHS Expert.
- Close windows and doors and seal vents to stop dust getting into the house; ask neighbors' to do the same.
- Seal off other places where dust can get in.
- Remove soft furnishings like rugs, clothes, jute bags from the work area, and seal anything with plastics if it cannot be moved.
- All the AC broken pipes have to be collected and stacked properly with 200 micron plastic wrapping with warning signage.
- Do not leave plastic sheet lying about where they may be further broken or crushed by people or traffic.
- Remove all ACM by the trained handler.
- Since we are amidst of dry climatic conditions due care must be taken to see that no waste broken pipes or fittings are left loose and outside the confined area and may be dampened as required.
- Mark and add signage.
- Due care has to be taken to collect the dampened waste in a permissible standard bags with proper warning signage's.

H. Storage of ACM Pipes

15. The removed undamaged ACM pipes have to be stacked properly as shown below to avoid any rolling of the pipes and eventual damage. The existing ACM Pipe stacking has to be re-handled to stack the ACM pipes properly. If the removed ACM Pipes is less than the full length of the ACM pipes, then separate stack of the same should be done with proper pre-caution and safety measures and gears (refer **Figure 2**).

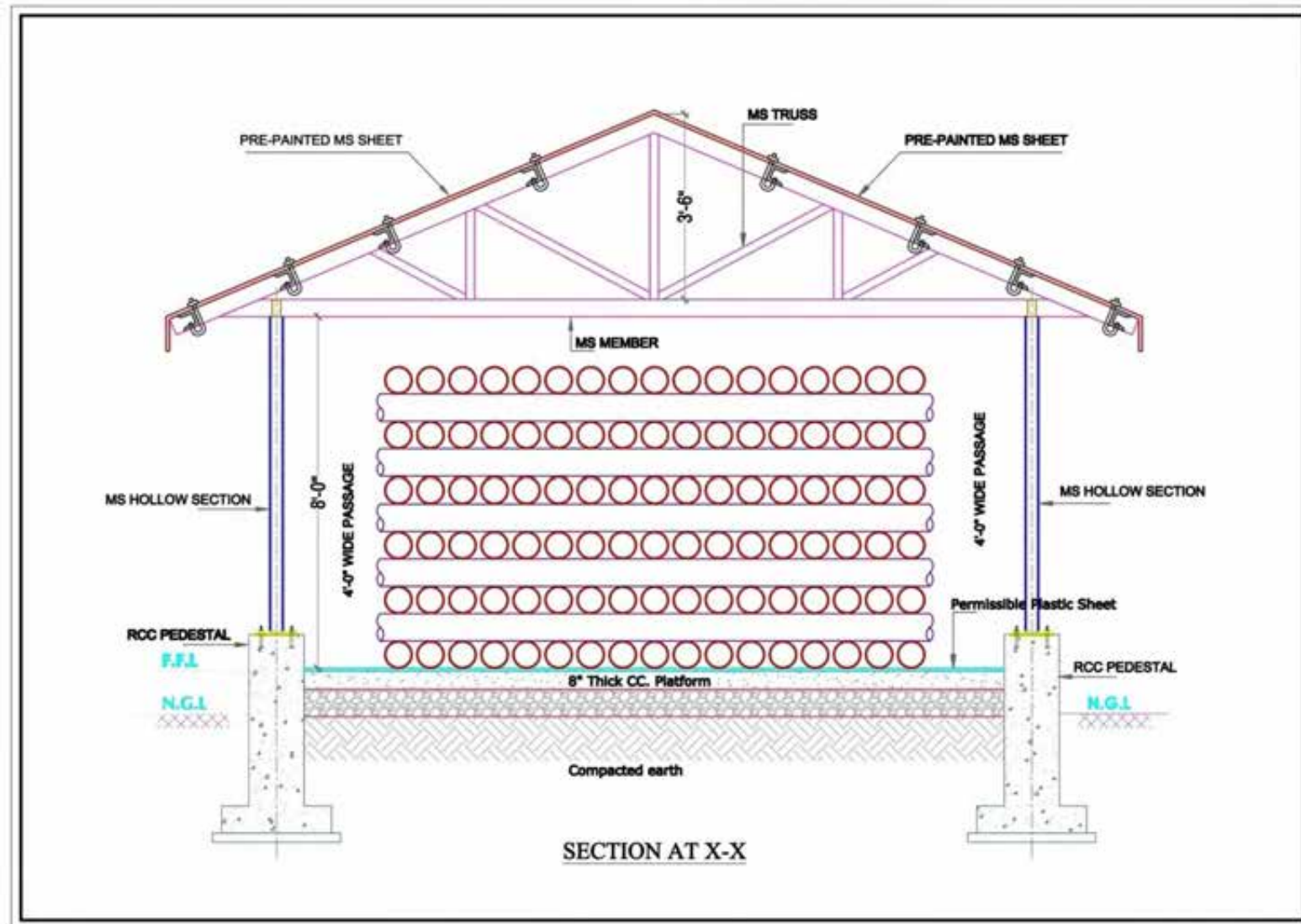


Figure 2: Schematic diagram showing ACM Pipes stacking

16. The ACM stack has to be enveloped with proper fencing showing internal movement of person with 4.0ft corridor all around the stack. The storage area will have display of all requisite warning and access control of the authorized person's entry and exit (refer **Figures 3 & 4**).

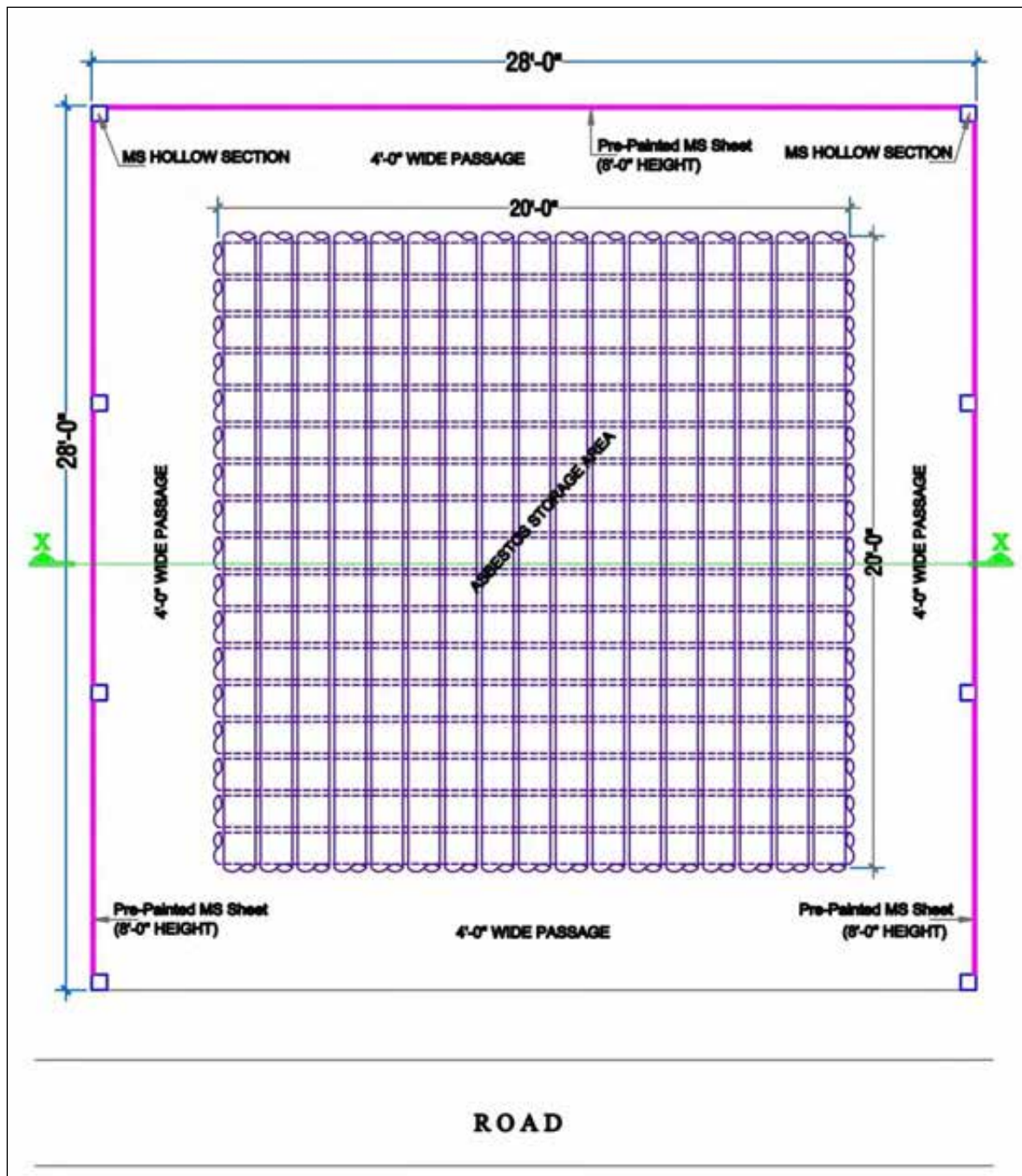


Figure 3: Schematic diagram showing ACM Pipes storage area



Figure 4: ACM: In-situ storage warning

I. Disposal of ACMs

17. The wastages packed have to be disposed off to Treatment, Storage or Disposal Facility (TSDF). Label/ display for TSDF disposal bags has to have clear display of the content in both English and local language as displayed under:

- a. Waste Type:
- b. Date of packing:
- c. Qty/ Numbers:
- d. Packed by:
- e. Warning Signage:
- f. Disposal

18. It will be responsibility of DBO contractor and PIU to send the ACMs to authorized agency for final disposal of ACMs. List of approved Treatment, Storage and Disposal Facilities (TSDF), who deal with ACMs in Rajasthan is given below-

Table 2: LIST OF APPROVED TSDF OPERATORS IN RAJASTHAN

S.No	Operator	Address	Remark
1.	Rajasthan Waste Management Project (M/s. Ramky Enviro Engineers Ltd)	Survey 1018/13, Vill-Gudli, Tehsil-Mavli, Zinc Choraha to Debari Railway Station Road, Dist, Udaipur (Rajasthan).	This TSDF is for all kind of hazardous waste as listed in the hazardous waste (Management & Handling) Rules.
2.	Ramky Enviro Engineers Ltd, Balotra	Ramky BWMP Rd, Rajasthan 344032.	This TSDF is for all kind of hazardous waste as listed in the hazardous waste (Management & Handling) Rules
3.	Continental Petroleum Ltd	Behror, Distt- Alwar	Only for Incineration

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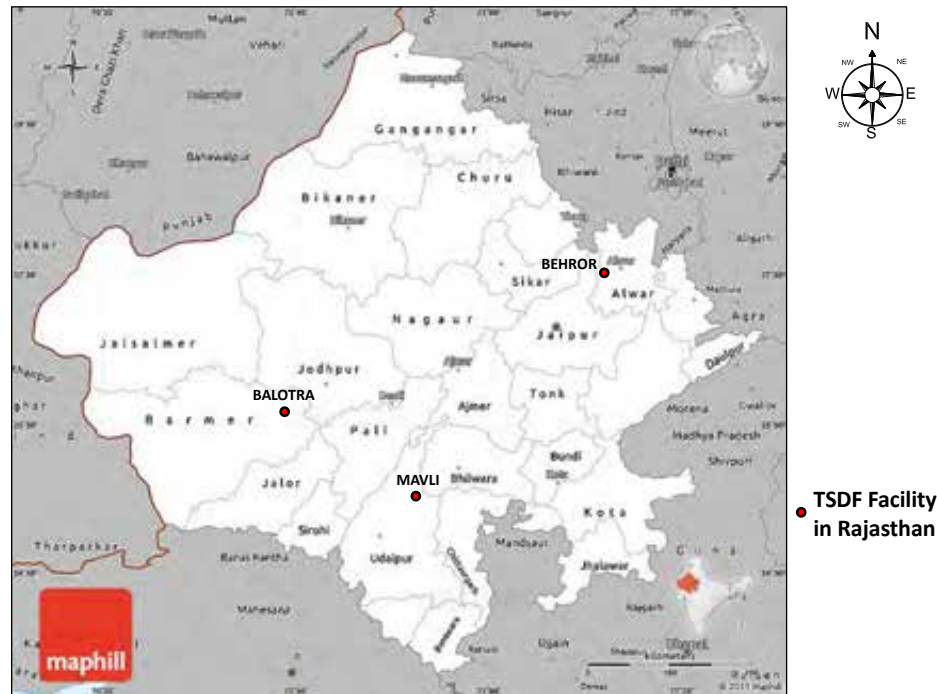
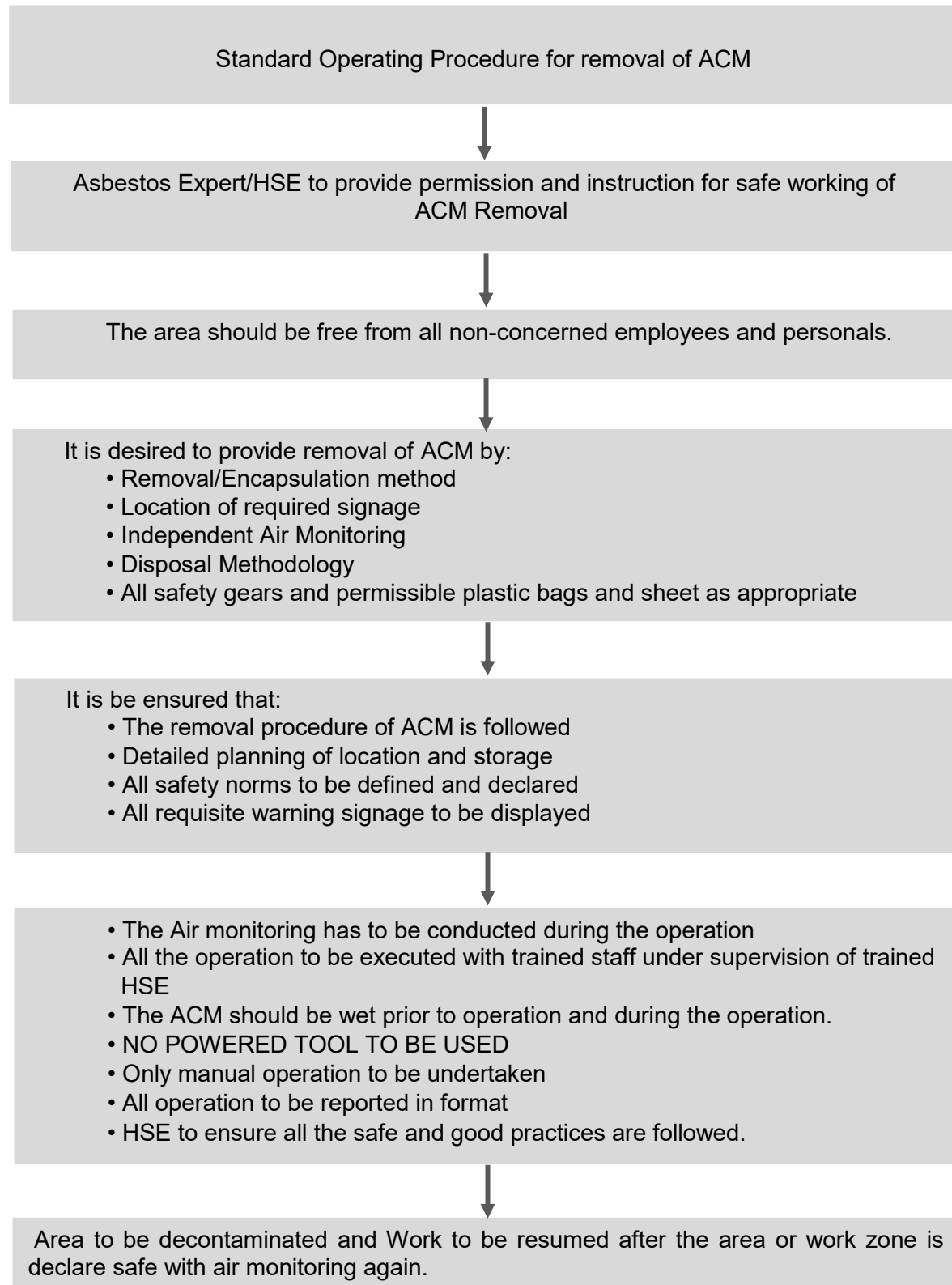


Figure 5: Map of the locations of approved TSDF in Rajasthan.

19. All the records in the pre-determined format are to be maintained and the disposal as stated in the applicable National legislation is to be followed. Any innovative use of the discarded ACM with the permissible law frame must be approved by respective Regulators prior to practice.
- J. Standard Operating Procedures (SOPs) for Handling, Transportation and Disposal of ACMs**
20. Two Standard Operating Procedures (SOPs) are prepared for safe handling, transportation and disposal of ACMs. These SOPs are to be followed by DBO contractor if ACMs is encountered at any site.
21. **Standard Operating Procedure-01-** are as follows-
 - a. Objectives – to keep the work zone safe and secured.
 - b. Requirements—identify all the requirements needed for handling AC in the specific site and project
 - c. Conduct and ensure awareness and vocational training to ACM handlers
 - d. Conduct a comprehensive identification and risk assessment of ACMs
 - e. Apply restriction/ re-handling of ACM on ground-use of PPE. Ensure that workers handling ACM have the right PPEs as follows:
 - Hard helmet
 - Overall suit
 - Gloves
 - Mask to be strapped tight
 - Safety goggles
 - Safety shoes
 - Ear plugs

- f. Avoid underground encountering of ACM
 - Ensure that an authorized person (HSE) is supervising the work
 - Barricade the area with signage
 - Damp ACM
 - Use safety gears
 - Dismantle ACM to be labeled, kept on plastic grounding and packed in permissible bags
 - Label the bags properly
 - Ensure shipping to proper disposal sites
- g. Site selection – the disposal site should be ready to handle ACM and protect the nearby people as well. The site selection criteria are as follows:
 - Away from habitation
 - Avoid low lying areas
 - Away from water storage
 - To be enveloped with minimum of 8-feet height enclosure
 - Avoid high vertical stacks
 - Access controlled
 - Proper signage enclosure
- h. Proper re-handling of ACM, labeling and packing
- i. Control access and ensure proper monitoring of records, specifically:
 - i. Environment
 - ii. Health
 - iii. Reporting to regulators
- j. Dispose the ACM through qualified DBO Operators up to the Total Sanitary Disposal Facility (TSDF)

22. Outline of SOP-1 is given in below Figure-

**Figure 6 -Standard Operating Procedure Flow Sheet**

23. **Standard Operating Procedure-02-** SOP-2 is formulated for Asbestos Fiber Monitoring, Analysis and Identification. SOP-2 is described as follows -
24. **Principle-** The collection of environmental samples including air must follow an appropriate sampling procedure. A review of method for sampling of asbestos fibers has been published (IPCS, 1986). The most commonly used analytical method involves phase contrast optical microscopy (PCOM) in the work place and transmission electron microscopy (TEM) in the general environment. The phase contrast optical microscopy (POCM) is universally recommended for asbestos analysis (Eache and Groff, 1997; Dion and Perrault, 1994) including Bureau of Indian Standard. POCM coupled with polarized light is largely used for asbestos analysis in solid samples (USEPA, 1993). The fiber monitoring has to be done by any NABL/ MOEF&CC accredited laboratory either in-house or by third party.
25. **Monitoring of Asbestos Fiber in Air-** A general survey of inside and outside the storage sites of the work zone has to be conducted to choose the sampling sites. Sampling is to be carried out at visually selected locations appeared more prone to emission or possibility of release of asbestos fiber. The sample collected by drawing a measured quantity of air through cellulose ester a membrane filter by a battery operated sampling pump that was fully charged to operate continuously over the chosen sampling time. The exposed filters will then be placed into plastic petri dishes and transferred carefully to the laboratory.
- The predominant average hourly wind direction in Sardarshahar varies throughout the year. The wind is most often from the south west. Predominant wind blows from south west to north east direction.

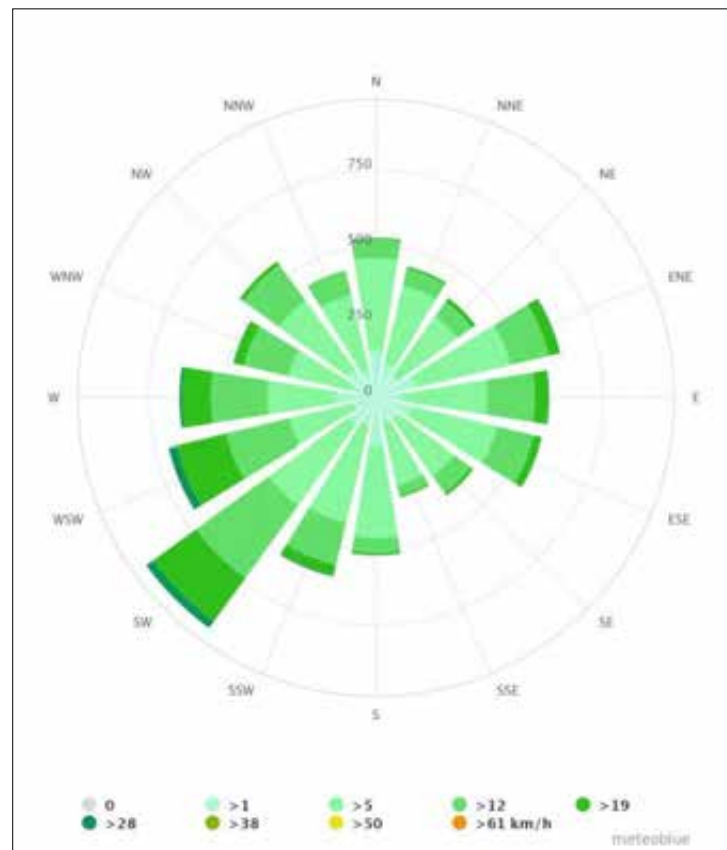


Figure 7: Predominant Wind Direction in Sardarshahar, District-Churu, Rajasthan

26. Two types of samples are to be taken, one within the workers breathing zone that is 300mm radius extending in front of the face, and measured from the midpoint of a line bisecting the ears called personal samples. The samples taken at a fixed location mostly near to the source point called area or static samples. Personal sampler model "XX 5700000" and low volume vacuum/pressure pump model "XX5622050" attached with monitor or cowl model "MAWP025AC" of Millipore Corporation, USA are to be used for the collection of personal and area samples, respectively. The flow rate of pump is to be adjusted to 1litre per minute. The flow rate checked before and after in each monitoring, those samples showing the difference by >10 percent from the initial flow rate are to be rejected. In both the samples filter holder (Cowl) always pointed downward position to avoid the deposition of heavy particles. An ester cellulose membrane filters "AAWP02500" having 0.8 µm-1.2 µm pore size diameter are to be used throughout the sampling for asbestos counts at work environment.

27. **Mounting Procedure** - Complete filter is to be placed on clean microscopic slide, dust side up at room temperature. Electrostatic force keeps the filter usually on the slide. Filters are to be exposed to acetone fumes and triacetin (Glycerol triacetate, Sigma). In this procedure a small quantity of acetone in round bottom flask (500-1000ml) heated at the boiling point underwater bath, the vapors condensed in a simple condensing column. When the sufficient fumes of acetone become ready then pass it throughout on the filter for 3-5 seconds at a distance of 15-25mm. put the 1-3 drops of Glycerol Triacetate (Triacetin) on the acetone-cleared filter. Place a cover slip on cleared filter by avoiding the air bubbles. Heat the cleared filter at 50°C for 15 minutes and leave it at room temperature for 24 hours under the action of triacetin to clear entire filter. Alternatively, membrane filter can also be made transparent with immersion oil (Leica Microsystems Wetzlar GmbH, Wetzlar). Using a phase contrast microscope with polarized light, Laborlux S (of M/s Leica, Germany) and then counting has to be done at magnification 400X-500x.

$$C = A/a \times N/n \times 1/r \times 1/t$$

Where:

C= concentration in fibers per cubic centimeter rounded to first place of decimal,

N = total no. of fiber counted,

n = number of graticule areas observed,

A= effective filter area in mm²

a= graticule counting area in mm²,

r= flow rate of air through filter in cm³/min., and

t= single sample duration in minutes

28. To rule out the probability of the air borne asbestos in the existing scenario at the said site as well as other similar sites at the different work zones, it is necessary to have the asbestos fiber monitoring and sampling counts to be recorded at regular intervals. The environmental air sampling stations will have to be minimum three at 120 degree angle, within 1000-500m from the ACM. The sampling frequency has to be in all three stages-Pre-Construction, Construction and Post Construction, while the personal sampling has to be done as stated above.

29. Bureau of Indian Standards (BIS) Guidelines for Safe Use of Products containing Asbestos states that "Asbestos cement products (such as AC pipes) generally contain about 10-15% Asbestos fibers in a cement matrix that comprises the rest of the materials and are termed as locked in asbestos products as these products have the asbestos fibers bound in cement. The possibilities of air borne asbestos fiber will be in case of mishandling of encountered pipes

with unsafe practice. During storing and installation; recommended work practices shall be followed to avoid harmful exposure". According to Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016, any waste with asbestos concentration limit of 10,000 mg/kg (i.e. 1%), however this will apply only if the asbestos containing substances are in a friable, powdered or finely divided state. Under the Basel Convention²⁰, asbestos or asbestos waste in the form of dust and fibers is classified as hazardous waste.

K. Roles and Responsibilities with Estimated Cost for ACM Management

30. This contract under RSTDSP is Design, Build and Operate (DBO); therefore primary responsibility of ACM management is of DBO contractor. RUDSICO-EAP (formerly known as RUIDP); being principal employer has to ensure that ACM Management Plan is being implemented as per applicable rules and regulations. Roles and responsibilities of different entities and estimated cost of implementation of ACM Management Plan is given in below table-

Table 3: Roles and Responsibilities and Cost Estimates

PRE-CONSTRUCTION				
Activities	Responsibilities	Associated Documents	Estimated Cost	Remark
Design to encounter minimal ACM, and then Identification & Inventorization ACM - AC pipes & fittings	RUDSICO-EAP & DBO CONTRACTOR	Form-I (refer Annexure-1)	Rs.100/km	The onus of the minimal encounter of ACM is vested upon the RUDSICO-EAP and inventory will be with the DBO Operator and has to be annually verified by RUDSICO-EAP.
Define & confine ACM storage area-in-situ			Rs.65/Sq.m	The storage area made available will be confined and fenced.
Warning signage near the ACM work site, storage and on AC pipes in local language**			Rs.500/label	The signage labels can be printed, sticker pamphlets or painted.
Training of personals handling the AC pipes and fittings	DBO CONTRACTOR	Form-II (refer Annexure-1)	Rs.1000/Person	All requisite safety gears should be made available at all sites.

²⁰ Basel Convention on the Control of Trans-boundary Movements of Hazardous Wastes and their Disposal, adopted in 1989

Use of safety Gears			Rs.6000/Person	All the safety gears should be silicon based and suitable for Asbestos protection.
Briefing of Emergency Response Plan			Rs.500/Person	All the risk zones with respect to white card has to be briefed.
Confined storage with access control plan			Rs.5000/site	Inward and outward movement of authorized person must be allowed and has to be guarded or should be under key control.
Pre-history medical records of the ACM handling team			Rs.3000/ Person	All requisite medical test, Respiratory test, lungs/ Chest X-ray/CT Scan, Blood Test, Lower Abdomen examination etc.
CONSTRUCTION PHASE				
Monthly Inspection & Annual Environmental Monitoring.	DBO CONTRACTOR	Form-III (refer Annexure-1)	Rs.40,000/ sample	The sampling zone should be 500m from the storage site and personal sampling has to be as per SOP-2.
Reporting in SEMR	RUDSICO-EAP/ DBO CONTRACTOR	None	Nil	As per ADB Format
Collection of Health records in compliance to the local laws	DBO CONTRACTOR/ RUDSICO-EAP/ PHED/ LSG	Form-IV (refer Annexure-1)	Nil	For regular evaluation & identification of any abnormality.
Ensure adoption of all standard operating procedure		SOP-1 & 2	Nil	As revision desired on basis of Site specific information may be upgraded in the SOP-1 & 2 if required
Collection, Segregation, Reception and Disposal as per National norms of ACM		Form-V (refer Annexure-1)	Nil	Standard Regulatory format has to be filled and disposed off within 90 days.
Use of safety gears prior to handling of ACM based on White Card.		White Card- Page-11	Nil	Periodic training can be site specific
Disposal of ACM to the identified TSDF Facility to be done as per procedure within or prior to 90 days		SOP-2	1500/ton of waste plus freight as per actual.	Within 90 days from the generation of waste, in case of existing waste it has to be disposed off within 90 days from the Project Start.

To inform and fill the returns in the prescribed manifest as per HWMR.		Form-V (Form-10 of the Rule HWMR- refer Annexure-1)	Nil	90 days from the start of work
To facilitated a restricted confined storage space with access control with proper inventorization.		Form-II (refer Annexure-1)	Nil	Site Specific
In-situ storage of ACM.	DBO CONTRACTOR	Form-VI (refer Annexure-1)		The storage of existing and encountered ACM pipes (more than 4.0ft) will be stacked end to end at 90 deg. With vertical stacks, 8 inches above the ground, covered with permissible plastic sheet. The campus custodian – viz. PHED etc. should also be informed about the In-situ storage of ACM and its impact.
ACM removal	DBO CONTRACTOR	--	--	Follow ACM Removal
Record maintenance of ACM in-situ and disposed off to TSDF	DBO CONTRACTOR	Form-I & Form-IV (refer Annexure-1)	Nil	The copies of inventory generated and collected will have to be shared with Land Custodian (LC), RUDSICO-EAP and DBO Operator. To distinguish the forms they can be numbered. FORM-I (LC), Form-IV (LC)
Transits ACM storage of waste to be disposed off to TSDF	DBO Contractor	Form-IV (refer Annexure-1)	50,000/ room	An isolated storage room should be constructed with 10x10 with height of 3.5 ft roofed properly for transit disposal of ACM to TSDF. DISPOSABLE ASBESTOS WASTE STORAGE ROOM HAZARDOUS WASTE CATEGORY-15.2 (As per Hazardous waste management & Handling Rules 2015).
POST CONSTRUCTION PHASE				

Compliance of AAQM, Asbestos Fiber monitoring and Soil Quality monitoring and Periodic Work zone monitoring (Asbestos fiber count) records to be maintained	DBO Contractor	SOP-2	Rs.40,000/ sample	The Asbestos Fiber count monitoring has to be conducted prior to ACM handling operation and after ACM Handling operation by an Accredited Laboratory. List of accredited laboratory will be available at Rajasthan State Pollution Control Board website- rspcb.nic.in
Health records & Periodic Medical Checkup of the personals handling ACM to be maintained.	PHED/ LSG/ DBO CONTRACTOR	Form-II (refer Annexure-1)	Rs.3000/ Person	All the concerned employees deputed to handle or deal with ACM has to have Pre medical history and periodic medical examination done

L. Emergency Response Plan (ERP) & Chance Find Protocol

31. The emergency procedures should include managing an uncontrolled release of asbestos materials into the workplace. The onus of the same shall be ensured with immediate action of the field staff-DBO Operator/ HSE Staff. Steps should be taken to:

- Warn anybody who may be affected.
- Exclude from the area anyone not needed to deal with the release.
- Identify the cause of the uncontrolled release.
- Regain adequate control as soon as possible.
- Make sure anyone in the work area affected, who is not wearing personal protective equipments (PPEs), including respiratory protective equipment (RPE), leaves the affected area immediately.
- Minimize the spread of asbestos by ensuring they are suitably decontaminated.
- Clean up dust and debris.
- Decontaminate anyone who is contaminated with dust and debris.
- Ensure rags, clothing or PPE is decontaminated or disposed of as contaminated waste.
- Consider alone and/or remote workers to ensure they can alert someone if necessary.

Check what you're working on before you start:

- Avoid using a sweeping brush as this can spread asbestos.
- Make sure no unauthorized personnel enter the area.
- The clean-up of any accidental release of higher risk materials, e.g. asbestos cuttings, powered asbestos that may release the asbestos fibers, to be done by authorized person

32. Flow chart of ERP is shown in below Figure 8 -

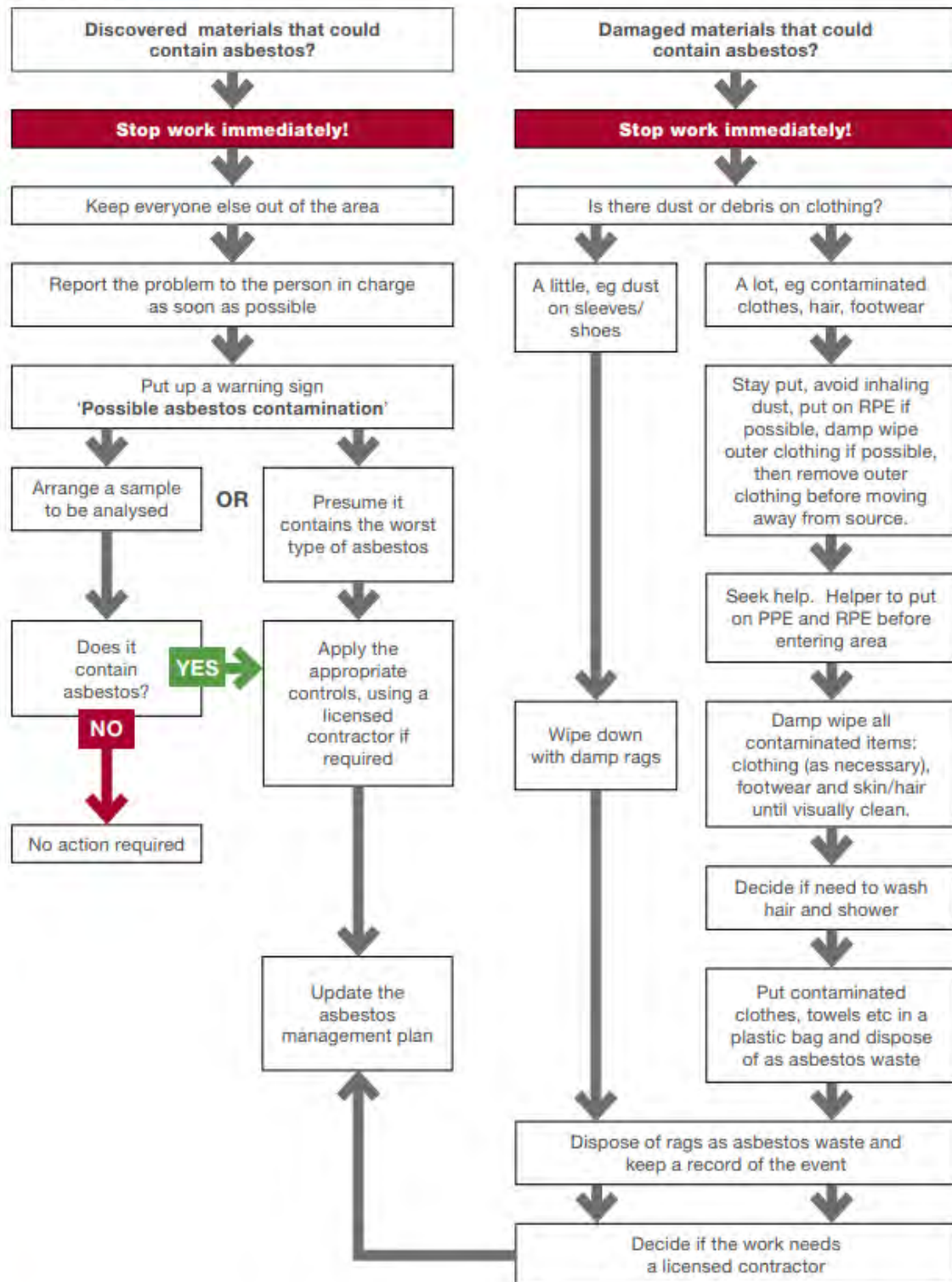


Figure 8: Flow chart of ERP

33. The format of Inventorization & records at all locations must be maintained irrespective of generation of ACM waste. The format of documentation must be uniform in order to track and trace the details as desired.

Summary of Asbestos Management Plan

Field	Anticipated Impact	Mitigation Measures	Responsible for Implementation/ Monitoring	Remark
Clearing, transfer and disposal of ACM pipes	Possibilities of air borne asbestos if handled unsafely, cut, drilled or broken into pieces that may cause: ☐ Inflammation of the lungs ☐ Mesothelioma ☐ Peritoneal mesothelioma ☐ Pleural plaques ☐ Asbestosis ☐ Bronchogenic Carcinoma ☐ Second hand-exposure	Implement the AMP strictly that includes identification of hazards, the use of proper safety gear and disposal methods.	DBO Contractor /RUDSICO-EAP	There has to be a suitable call to be taken for in-situ disposal if the removed ACM pipes are not damaged, full length or 4.0ft length not damaged.
Work in narrow streets	Possibilities of air borne asbestos if handled unsafely cut, drilled or broken into pieces that may cause: ☐ Inflammation of the lungs ☐ Mesothelioma ☐ Peritoneal mesothelioma ☐ Pleural plaques ☐ Asbestosis ☐ Bronchogenic Carcinoma ☐ Second hand-exposure	Conduct awareness program on safety during the construction work. Undertake the construction work stretch-wise; excavation, pipe laying and trench refilling should be completed on the same day. Provide barricades, and deploy security personnel to ensure safe movement of people and also to prevent unnecessary entry and to avoid accidental fall into open trenches. Identify risk of intervention with existing AC pipes. If there is significant risk, implement the AMP strictly that includes identification of hazards, the use of proper safety gear and disposal methods.	DBO Contractor/ RUDSICO-EAP	All provision of safe working with proper signage has to be undertaken prior to work initiation, during the work and after the work.

Field	Anticipated Impact	Mitigation Measures	Responsible for Implementation/ Monitoring	Remark
Interventions in existing AC pipelines	Possibilities of air borne asbestos if handled unsafely cut, drilled or broken into pieces that may cause: ☐ Inflammation of the lungs ☐ Mesothelioma ☐ Peritoneal mesothelioma ☐ Pleural plaques ☐ Asbestosis ☐ Bronchogenic Carcinoma Second hand-exposure	Appropriate actions as defined in the Asbestos Management Plan will have to be adhered to	DBO Contractor/ RUDSICO-EAP	Measure to avoid the encounter & removal has to be prioritized and if the same is not avoided then the measures stated have to be strictly followed.
Documentation /record	Unmonitored ACM might be handled incorrectly and can cause release of airborne asbestos	To be formatted and kept as mentioned in the Asbestos Management Plan	DBO Contractor/ RUDSICO-EAP	To be kept intact for easy tracking and reference in legible format. The same can be kept in soft format as well.

Annexure 1: Formats of ACM Management**FORM I – ASBETOS INVENTORY, INSPECTION AND ACTION FORM**

Format: RUDSICO-EAP/ IIA/ LOCATION/ NAME OF DBO CONTRACTOR/ HSE 002/ YEAR		
Location:		
Site co-ordinates:		
Elevation:	Team:	
Date of visit	Sign:	
Present Status		Indicate if installed, operational, in storage, etc.
Original age		Months or years since installation
Diameter		mm or inches
Length		meters
Volume		
Total packet		
Packing date		
Disposal date		
Existing Site (Photo or illustrations):		
Illustration/ Design of Activities On-site with respect to existing asbestos (include details such as size of new pipes, distance from existing AC pipes, other notable observations)		
DBO Contractor Handling Asbestos:		
Number of persons handling waste		
Medical Records		
Safety Gears		
Vocational Training Last Conducted:		
Number of attendees:		
Conducted by Schedule:		
Required Actions:		
Remarks		
Conclusion/ Remark		
HSE Signatory		

FORM-II – MATRIX FOR TRAINING & RECORDS

Format: RUDSICO-EAP/ INSP. MATRIX/ LOCATION/ NAME OF DBO CONTRACTOR/ HSE 001/ YEAR			
S. No.	Aspects of ACM	Check points	Remarks
Training Schedule:			
Trainer Details:			
Date/Location of Training:			
Number of attendees:			
Training Schedule, Training Materials & Attendance Sheet, Feedback of Trainees.			
Understanding of:			
A. DOCUMENTS AND RECORDS			
1.	Site Inventory		
2.	List of ACM storage and installation points		
3.	Structure of ACM management committee		
B. INVENTORY			
1.	Inventorization of ACM		
	Number of ACM/ pipes		
	Dimensions of ACM/ pipes		
	Total volume of ACM/ pipes		
2.	Storage facility/ installation location:		
A.	In-use	Location	
		Condition	Intact/ damaged
		Purpose	
		Accessibility by the workers	
		Evidence of physical damage and approximate size (length, width, volume) without coming into contact with The damaged ACM	
		Impacts on the environment (Based on Asbestos fiber Monitoring)	
3.	LABELING AND SIGNAGE		
	Notification to workplace safety and health		
	Working instruction		
	The risks associated with exposure to asbestos fibers		
	Cautionary statement to not disturb materials containing asbestos		
4.	PERSONAL PROTECTIVE EQUIPMENT (PEP)		
	Record of pep		
	Mask		
	Eye glasses		
	Gloves		
	Ear muffs		
	Others		
	Training		
	On occupational risks of asbestos to the workers	Date: Time: In-house/ external: Faculty: No of workers attended:	

	Training for maintenance, repair and renovation	Date: Time: In-house/ external: Faculty: No of workers attended:
	Training for workers working with asbestos	Date: Time: In-house/ external: Faculty: No of workers attended:
	Periodic air quality monitoring records	• Within the permissible limits • Not within the permissible limits (specify the reason)
	Workers medical check-up records	Date: In-house/ external: Performed by: Remarks: No of workers attended:
Conclusion/ Remark HSE Signatory		

The all the data required in Form-II will be filled by the DBO Operator (HSE-Officer), the records of this document has to be maintained for a pre-decided life. Details of training imparted have to be file with appropriate evidence like photographs, feedback form, videos etc. There has to be a proper documentation of the records kept with highest level of transparency to retrieve, trace and track the records as necessary. The records maintained by the DBO Operator, has to be audited regularly by the ACM-Expert.

Form-I has to be accompanied with Form-II. Defined period of Air Quality monitoring and health will have to be minimum twice a year. Where ever the fiber counts are found/ recorded beyond the permissible norms, corrective action, like:

- ☐ Cordon off the area of ACM
- ☐ HSE team with trained experts to be deputed for the task
- ☐ Moisten the ACM prior to handling
- ☐ Storage area of the ACM stacks to be covered
- ☐ The damaged/deteriorated ACM to be re-handled in presence of Asbestos Expert/ HSE (Trained) with all defined norms and safety gears.
- ☐ Disposal of damaged/deteriorated ACM to be done as per the Norms.
- ☐ Records of disposal to be maintained.
- ☐ Keep all requisite evidence in form of documentation, geo-tagged photographs etc.
- ☐ Frequency of health monitoring at such locations to be increased.

Form-III- AIR QUALITY MONITORING AND RESULTS

Format: RUDSICO-EAP/AQMR/ LOCATION/NAME OF DBO CONTRACTOR/HSE 003/YEAR			
Vendor details			
Approvals			
S.No.	Location	Agency	Results & Permissible Norms
Conclusion/ Remark			
HSE Signatory			

FORM-IV-MEDICAL HISTORY

Format: RUDSICO-EAP/MH/ LOCATION/NAME OF DBO CONTRACTOR/HSE 004/YEAR																			
Employee code:																			
Employer Details:																			
PPE Used:																			
Insurance/ESI																			
S.No	Name	Age/ Sex/ DBO	Address/ Contact details:	Period of Employment/ Job Title	Pre-History	Doctor's comments	HSE Remarks												
					<table border="1"> <tr> <td>Height</td> <td></td> </tr> <tr> <td>Weight/ BMI</td> <td></td> </tr> <tr> <td>Blood group</td> <td></td> </tr> <tr> <td>X-Ray</td> <td></td> </tr> <tr> <td>CT Scan</td> <td></td> </tr> <tr> <td>others</td> <td></td> </tr> </table> Smoker: Tobacco: Alcohol Consumption: Family History: Medication if any: Eye sight: Hearing: Others:	Height		Weight/ BMI		Blood group		X-Ray		CT Scan		others			
Height																			
Weight/ BMI																			
Blood group																			
X-Ray																			
CT Scan																			
others																			

FORM -V**[FORM-10- as per rule 19 (1) of Hazardous waste Handling & Management Rules-2016]****MANIFEST FOR HAZARDOUS AND OTHER WASTE**

1.	Sender's name and mailing address (including Phone No. and e-mail)			
2.	Sender's authorization No.		•	
3.	Manifest Document No.		•	
4.	Transporter's name and address: (including Phone No. and e-mail)			
5.	Type of vehicle		•	(Truck/ Tanker/ Special Vehicle)
6.	Transporter's registration No.		•	
7.	Vehicle registration No.		•	
8.	Receiver's name and mailing address (including Phone No. and :)		(e-mail)	
9.	Receiver's	Authorization	No.	
10.	Waste description		•	
11.	Total quantity No. of Containers		•	m ³ or MT Nos.
12.	Physical form			(Solid/ Semi-Solid/ Sludge/ Oily/ Tarry/ Slurry/ Liquid)
13.	Special handling instructions and additional information			
14.	Sender's Certificate		I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labeled, and are in all respects in proper conditions for transport by road according to applicable National Government regulations.	
	Name and stamp:	Signature:	Month	Day Year
15.	Transporter acknowledgement of receipt of Wastes			
	Name and stamp:	Signature:	Month	Day Year
16.	Receiver's certification for receipt of hazardous and other waste			
	Name and stamp:	Signature:	Month	Day Year

FORM –VI: IN-SITU STORAGE OF ACM

S.No	Activity	Number of Stacks	Area occupied	Details of ACM Pipes		Day/ month/ year of storage
Site History						
For existing Stacks, details of re-handling of pipes in number or volume to be mentioned under supervision of Authorized Experts.						
Details of Location of re-handled ACM storage, new area should be • Minimum 10-15 ft away from campus habitation. • 250m away from the water sources. • 500-800m away from Children play area. • The area should be isolated and covered from all the sides with restricted Access for Authorized Experts Only. • Register to be maintained for Entry & Exit of personals. • Register to be maintained for Entry & Exit of ACM • Labels to be displayed in legible format • Specific training of ACM to be inducted in the ACM storage area for residing population in the campus.						
Details of transit storage of ACM to be maintained as per norms in an isolated storage room full covered						

Annexure 2: Details of AC pipes in Existing Water Supply Networks in Sardarshahar

कार्यालय अधिशाषी अभियन्ता (परियोजना) जन स्वा. अभि. विभाग
नगर खण्ड सरदारशहर

क्रमांक: २३५६

दिनांक: -12/01/2023

श्रीमान अधिशाषी अभियन्ता,
आरयूआईडीपी सरदारशहर।

विषय:- शहरी जल योजना सरदारशहर पर ए.सी. प्रेशर पाईप लाईन का विवरण।

संदर्भ:- आरयूआईडीपी के पत्रांक 1350-58 दिनांक 11.07.2022 के क्रम में।

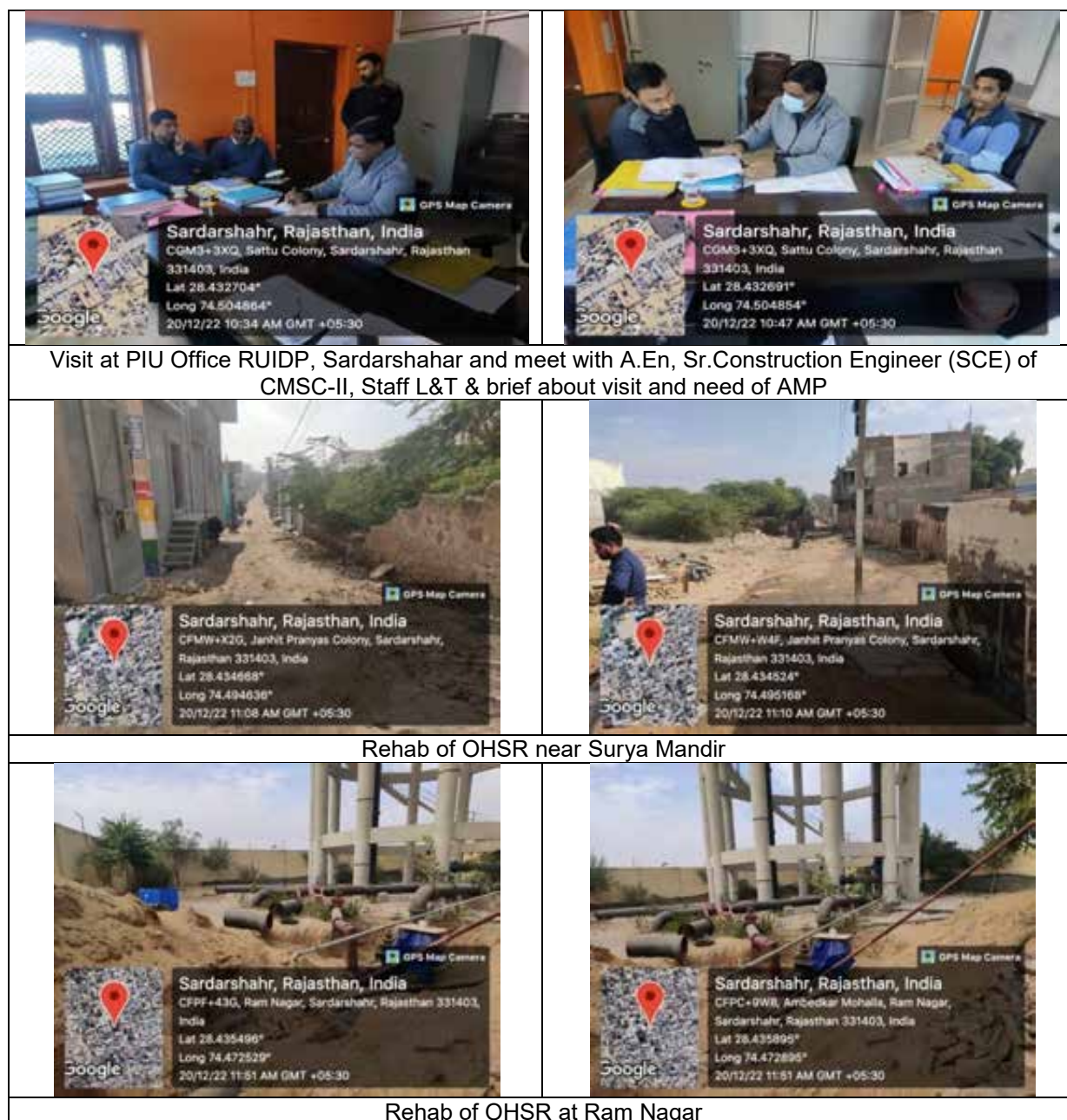
उपरोक्त विषयान्तर्गत निवेदन है कि आप द्वारा चाही गई सूचना इस कार्यालय में उपलब्ध
रिकार्ड अनुसार निम्नानुसार है:-

SR.No.	Pipe Material	Pipe Dia (MM)	Length
1	AC	80	3.75 Km
2		100	4.25 Km
3		125	2.0 Km
4		150	—
5		200	—

/

24
अधिशाषी अभियन्ता
जन. स्वा. अभि. विभाग,
खण्ड सरदारशहर।

Annexure 3: Site Visit Photographs of Sardarshahar Town





Conclusion:

Visited the Sardarshahar town dated on 20/12/2022 and meet with the Official of PIU, Assistant Engineer- RUIDP-PIU along with SCE CMSC-II. Detail discussion with Assistant Engineer and SCE of CMSC-II regarding Asbestos Management Plan and purpose of visit. During discussion detail deliberation such as issues of Asbestos pipes occurring during excavation of WS in Sardarshahar Town.

As per discussion with SCE & Supt. Engineer CMSC-II, existing WS line laid at the depth of 0.7m to 1.0m at many places. New line of WS is being laid at the depth of approx. 1.0m to 1.4m. New line is being laid in opposite direction of existing line where space is available. It may vary place to place, location of pipeline in reference to sides of road. Moreover sometimes in narrow street new line is being laid along the existing WS line at approx. 1.5ft to 2.0ft distance. So there is lesser chance to encountered AC pipes during excavation. However cannot deny the possibility to encounter AC pipes in broken stage sometimes during crossing the line but there will be low risk. In case of occur; all the procedure will be follows as per AMP. All existing line of water supply will not be disturbed and will left in the ground in their original condition.

During discussion with A.En.-RUIDP-PIU and SCE of CMSC-II, detail deliberation such as issues of Asbestos pipes if occur during excavation of WS works in Sardarshahar Town. In the event of encounter of any Asbestos Containing Materials (ACMs) during project activity, SOPs shall be followed till the final disposal at nearest TSDF site as given in Asbestos Management Plan.

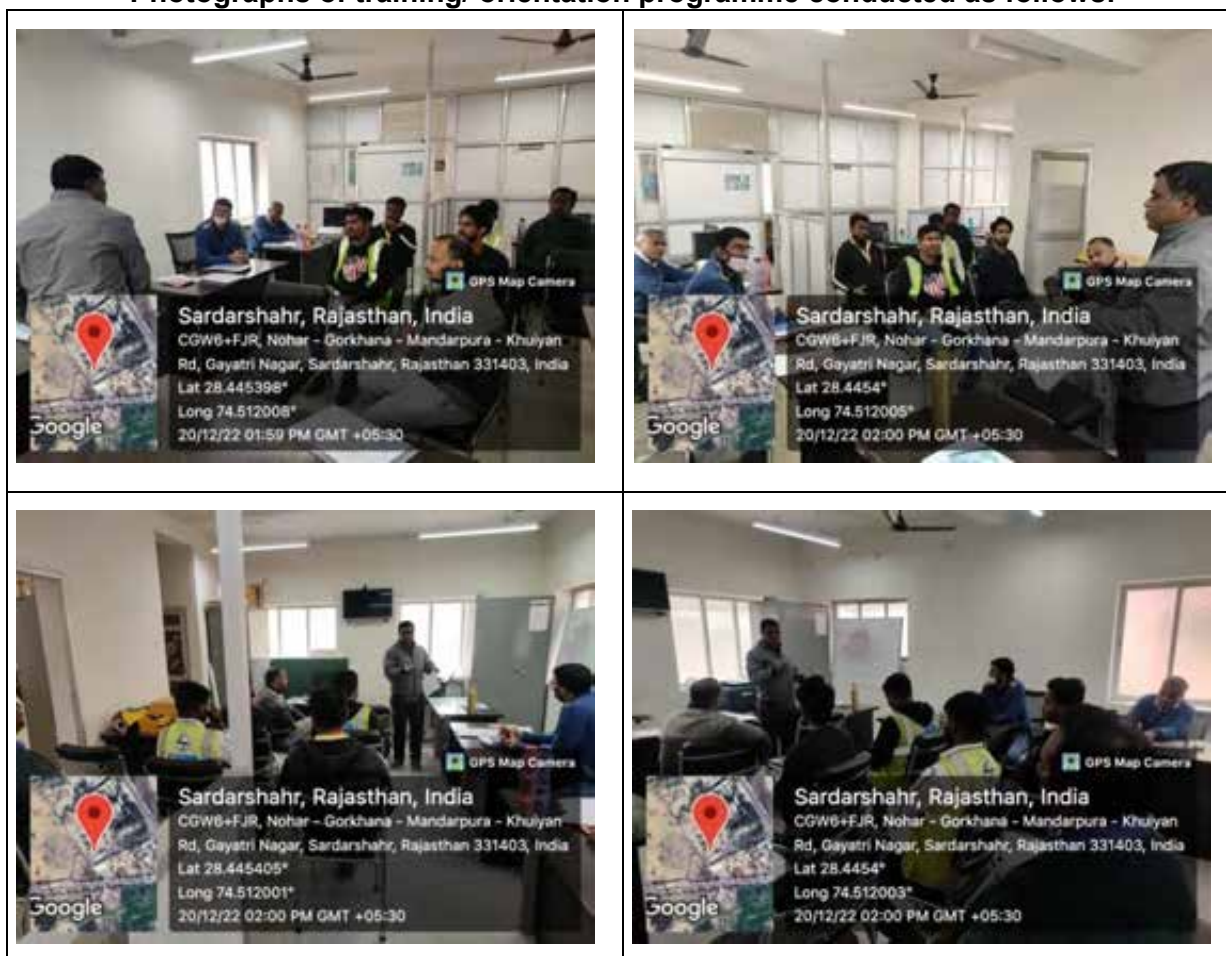
Pre-dominant wind direction needs to be considered in planning of storage of ACM at designated place if occurred in near future. No habitation should be located near in downwind direction of ACM storage or its immediate vicinity.

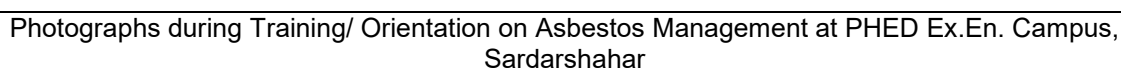
During discussion with SCE-CMSC-II, works of laying of WS distribution network (approx. 65%) have laid in different zones in Sardarshahar Town. During visit of subproject components such as 1 nos of CWR 2400KL capacity under construction at PHED Ex.En. Campus, Pump House, CRMC-1, 1 MCC and 1 CCC. CRMC-2 is under construction at A.En. PHED Campus.

During site visit found that no asbestos containing materials (ACMs) were present/ encountered at different sites in Sardarshahar Town except existing storage of rejected AC pipes of PHED in their premises. In case of any occurrence of ACM's during excavation near future, different sites such as CRMC/MCC/CCC, CWR, STP & WS distribution network areas have visited but adequate space is available at PHED Campus. However in view of space there is no issue to temporary stack of ACM's at PHED Campus, as no habitation/school/temple is exist near/in vicinity of the site except old CWR. Near CWR site at PHED campus have sufficient space to temporary store the ACM if occurred in near future and quite remote from habitation, any water body or sensitive receptors.

In line of better management of ACM's if occurred during works, a training cum orientation programme was also conducted dated on 20th December 2022 in due consent with Assistant Engineer of RUIDP-PIU along with CMSC-II Staff and Contractor (L&T) safety personnel etc. During training, welcomed all the concerned person and brief about the Asbestos Management Plan and their needs while executing the works. From PMCBC, Asbestos Expert brief about the need and management of ACM's during works also discuss the ACMs removal, handling, temporary stacking and disposal procedure as given in Asbestos Management Plan (AMP). During removal all the rules and regulation will need to be strictly adhered as per Asbestos Management Plan (AMP).

Photographs of training/ orientation programme conducted as follows:





S.No.	Name of Person	Gender	Designation	Contact No.	Signature
①	Dinesh Kumar	M	Asst. Eng.	8347425829	[Signature]
②	Vipankash R. Patil	M	S.C.C. Engrs	950019555	[Signature]
③	AFZAL ANSARI	M	Envy. Engineering	8299562672	[Signature]
④	Ravesh K. Sahu	M	Asst. Mgr. EHS	943466679	[Signature]
⑤	Surendra Kumar	M	Planning Engineer	7855127113	[Signature]
⑥	Amit Kumar	M	A.C.M. (LST)	8273260332	[Signature]
⑦	Nitesh Choudhary	M	Execution Engineer (LST)	9051619778	Nitesh Choudhary
⑧	Mohish Ushar	M	Safety Supervisor (LST)	704571314	Mohish Ushar
⑨	Mohd. Tazzeed	M	Safety Supervisor (LST)	7860633873	Tazzeed

Ch dh
20/12/2020
- Asbestos & pest
PM CBC

Appendix-7: Photographs & Attendance sheets of Safeguard Orientations & Trainings

**(During October 2023 to March 2024)
(by Environmental Safeguard Professionals of CMSC I & II)**



Photos of Safeguard Orientation at Sirohi Town during Site Visit on dated 15.12.2023

Attendance Sheet for Safety Training/Orientation

Name of Project: Rajasthan Secondary Towns Development Sector Project (RSTDSP) – Sirohi Water Supply and Sewerage Subproject, District - Sirohi, Rajasthan

Orientation/Training Topic: Environment Health and Safety Training

Date: 15 Dec 2023

Time: 12:30

Place: Shandulpura

S.No	Participant	Depart. /Agency	Designation	Mobile Number	Signature
1	Praveen Kumar	LST	Supervisor	9818843980	[Signature]
2	Bijendra Sharma	LST	Sub-co-sup.	9084686582	[Signature]
3	Kabir Seth	LST	HDD Operator	6280913484	[Signature]
4	Mahesh Singh	LST	Helper	6350640436	[Signature]
5	Jitendra Jaiswal	LST	Helper	8504047662	[Signature]
6	Kapton Adwasi	LST	Helper	9034686582	[Signature]
7	Raj Kumar	LST	Helper	9016834547	[Signature]
8	Ravi Adwasi	LST	Helper	9305508997	[Signature]
9	Ramver	LST	Helper	9079821409	[Signature]
10	Holkarn	LST	Helper	6267860593	[Signature]
11					
12					

Photographs of safety training/Orientation, Abu Road on dated 21-22.02.2024**Training / Orientation at Stock Yard Training Room on 22.02.2024:**

Attendance Sheet of Safety Training/Orientation, Abu Road**Attendance Sheet for Safety Training/Orientation**

Name of Project: Rajasthan Secondary Towns Development Sector Project
 (RSTDSP) – Sirohi Water Supply and Sewerage Subproject,
 District - Sirohi, Rajasthan

Orientation/Training Topic: Environment Health and Safety Training

Date: 21 Feb 2024

Time:

Place: STP-6.9 MLD, Sandpur, Abu Road

<u>S.No</u>	<u>Participant</u>	<u>Depart. /Agency</u>	<u>Designation</u>	<u>Mobile Number</u>	<u>Signature</u>
1	Jairam	L&T	Mason	7357458861	21/2/24
2	Rashon Kumar	L&T	Carpainter	9257028188	21/2/24
3	Chandan Paswan	L&T	Mason	9110070117	21/2/24
4	Rohit	L&T	Mason	7250042833	21/2/24
5	Sannath	L&T	Mason	9199260185	H-714
6	Bhima	L&T	Mason	9102845409	Bhim Ray
7	Himmat	L&T	Bar binder	9812739714	Himmat Ray
8	Devender	L&T	Bar binder	7319681226	21/2/24

Attendance sheets of Safeguard Orientations Attendance Sheet of Safety Training/Orientation, Abu Road

Date - 22/01/2024 Time 11:30 AM

Project Name: Abu Road Sewerage and Water Supply
Sub-Project

Venue: - Training Orientation Center at LYT Store Near
Air strip, Abu Road

Safety Orientation Training Programme - Attendance sheet

S.No.	Name of Participant	Occupation	Mobik No.	Signature
1.	Gulshan	meter	9368271923	[Signature]
2.	Riyajudin	mason	7835025299	[Signature]
3.	Mrs. Kavita	keeper	8342401459	[Signature]
4.	Mrs. Ganga	keeper	X	-
5.	Om Prakash	keeper	9024021387	[Signature]
6.	Selman	keeper	9070600857	[Signature]
7.	Shaloch	mason	X	-
8.	Nasimuddin	Supervisor	- 7727945596	[Signature]
9.	Dinesh	keeper	- 8769755527	[Signature]
10.	Aash Mohammad	keeper	- 8439174527	[Signature]
11.	Kamil Ali	mason	- 7055428873	[Signature]
12.	Rakesh	keeper	X	-
13.	Himad	keeper	- 6376220965	[Signature]
14.	mohan	keeper	X	-
15.				

Attendance Sheet of Safety Training/Orientation, Abu Road

Photographs of safety training/Orientation, Sirohi on dated 15.02.2024



Attendance Sheet

Attendance Sheet for Safety Training/Orientation

Name of Project: Rajasthan Secondary Towns Development Sector Project (RSTDSP) – Sirohi Water Supply and Sewerage Subproject, District - Sirohi, Rajasthan

Orientation/Training Topic: Environment Health and Safety Training

Date: 15 Feb 2024

Time: 12:30

Place: 9.0 MLD WTP, Angore Sirohi

S.No	Participant	Depart. /Agency	Designation	Mobile Number	Signature
1	S. Kander Kumar	Bhathilera	He/par	7280803522	R. K. K.
2	O. S. Singh	Bhathilera	mesan	7851949792	O. S. Singh
3	Prakash	Bhathilera	He/par	8102454048	Prakash
4	Kamlesh	"	He/par	9352656886	Kamlesh
5	Manoj Singh	"	mesan	788431469	Manoj Singh
6	Bannikumar	"	Computer	8890470640	Bannikumar
7	Arjun Kumar	"	"	6375114824	Arjun Kumar
8	Munna Kumar	"	"	6375114824	Munna Kumar
9	Tanna Devi	"	He/par	9783341723	Tanna Devi
10	Banjay Gird	"	"	8102235736	Banjay Gird
11	Mukendra Rao	"	"	8890470690	Mukendra Rao
12	Bijola Rao	"	"	8890470690	Bijola Rao
14	Sou. Rao	"	"	829055007	Sou. Rao
15					

Photographs of safety training/Orientation Ratangarh on dated 26.02.2024**Safety Training/Orientation at 6.1 STP Plant, Gaushala****Safety Training/Orientation at Near Ramchandra Park, Pipe Laying Work:**

Attendance Sheet of Safety Training/Orientation, Ratangarh

ATTENDANCE SHEET

Date: 26/02/2024

PROJECT NAME: Integrated water supply and sewerage project, Ratangarh, Ratangarh

S.NO	NAME	DESIGNATION	MOBILE NO.	SIGNATURE
01.	Lailta Raikwar	Helper	8719078960	et. tell
02.	Mahendra Raikwar	MaSon	9343470781	Me. op
02.	Guddu Yadav	Welder	9905319625	Isuddh
04.	Sunil Yadav	Welder-Helper	9801614337	Sunil
05.	Hemant Kumar	Welder	9188913088	hemant
06.	Ravi Rangan	Welder	6283115360	Ravi Rangan
07.	Deepak Gaur	Welder-Helper	7726920265	Deepak
08.	Raja Ram	MaSon	8830562822	Raja Ram
09.	Babita Raikwar	Helper	8305628223	Babita
10.	Mahendra II	MaSon	7879542655	Me. op
11.	Champa Raikwar	Helper	9293490781	Champa
12.	Abhash Khan	Safety Supervisor	8280419657	Abhash
13.	Upasena Kumar	Engr. Asst. for water supply	9687429952	Upasena

Upasena Kumar
26/02/2024

Photographs of Safety Training/Orientation & Attendance Sheet of Sardarshahar on dated 05.03.2024



Photographs of Safety Training/Orientation at Taranagar Circle, Sardarshahar



Photographs of Safety Training/Orientation at 6.1 MLD STP, Sardarshahar

Attendance Sheet of Safety Training/Orientation, Sardarshahar

Attendance Sheet for Safety Training/Orientation

Project Name: Integrated Sewerage & Water Supply Project, Sardarshahar

Name of Person: Ugrasen Kumar, Environment Safeguard Support, RUIDP, Ratangarh

Orientation/Training Topic: Environment Health and Safety Training

Date: 05/03/2024

Place/Town: SARDARSHAHAR, CHURU

S.no	Name	Department /Agency	Designation	Mobile no.	Signature
1.	Jitendra	LST	Fitter	6207203151	जितेंद्र
02.	Rohit Singh	LST	Carpenter	7878527868	रोहित
03.	Dev Kumar	LST	Helper	9361272549	देव
04.	Sanjay Singh	LST	Fitter		संजय
05.	PLIP Singh	"	Helper	9950241003	पुनीप सिंह
06.	Vishwadev	"	Helper	7340664216	विश्वदेव
07.	Kamlesh	"	Helper	78528853	कमलेश
08.	Ramesh	"	Helper	7109448022	रामेश
09.	Amrit	"	Helper	9022035273	अमिता
10.	Priyanka	LST	Safety Steward	9528151679	प्रीतिका
11.	Ugrasen Kumar	CHSE-2	Env. Safeguard Support	8687429950	उग्रसेन

Ugrasen Kumar
05/03/2024

Photographs and Attendance Sheet of Training / Orientation in Abu Road on 14.03.2024



Attendance Sheet of Training / Orientation

Date: 14/03/2024 Time: 06:30 Add - ABU ROAD SANTPUR

Sl. No.	Name	Signature	Mobile
1)	Manisham		626082871
2)	Mittun		944228214
3)	Ashok		8630827536
4)	Ladagam		7878114478
5)	Narayan		6354340326
6)	Raja Ram		8824331826
7)	Nana Ram		7878343426
8)	Vivek		8834509416
9)	Purnaj		9887605432
10)	Gyan		89492678
11)	Harit		89492678
12)	Poojash		8133512842
13)	Parlo Ben		7665128421
14)	Bhalhor		8281325721
15)	Sena Ben		9785048031
16)	Tulsi		
17)	Rohisoddin		6251894201
18)	Madim Khan		8001805047
19)	Ibrahim		800155213
20)	Suma Ben		9019418109

**Photographs of Safety Training / Orientation in Ratangarh Town on dated
14.03.2024**



Photographs of Safety Training At ward no. 08



Photographs of Safety Training At 4.6 MLD SPS



Photographs of Safety Training At ward no 3

Attendance Sheet of Safety Training/Orientation, Ratangarh

Project Name: Sewerage & water supply, Ratangarh

Name of Person: Ugrasen Kumar, Environment Safeguard Support, RSTDP, Ratangarh

Orientation/Training Topic: Environment Health and Safety Training

Date: 04/03/2024

Place/Town: WARD NO.08

S.no	Name	Department /Agency	Designation	Mobile no.	Signature
01.	Munira	L&T	Helper	—	[Signature]
02.	Rakesh	"	Helper	8203535536	[Signature]
03.	Mangru (C)	"	"	8204181081	[Signature]
04.	Suresh (H)	L&T	"	—	[Signature]
05.	Pancham	"	Helper	8305501002	[Signature]
06.	Rakesh	"	Helper	—	[Signature]
07.	Ashok	L&T	Helper	6200470083	[Signature]
08.	Vikash	"	Helper	9835068621	[Signature]
09.	Krishna	"	Helper	7812501652	[Signature]

[Signature]
04/03/2024

Project Name: Sewerage & water supply, Ratangarh

Name of Person: Ugrasen Kumar, Environment Safeguard Support, RSTDP, Ratangarh

Orientation/Training Topic: Environment Health and Safety Training

Date: 04/03/2024

Place/Town: Ratangarh, Sewerage, Project

S.no	Name	Department /Agency	Designation	Mobile no.	Signature
01.	Chetan	L&T	Helper	8233105421	[Signature]
02.	Bijayam	"	Helper	982887026	[Signature]
03.	Hareesh	"	"	985111752	[Signature]
04.	Mondal	L&T	"	8202007260	[Signature]
05.	Ramavtar	"	Supervisor	9597881193	[Signature]
06.	Tutaram	"	Helper	—	[Signature]
07.	Bhagmish	L&T	"	—	[Signature]
08.	Ramkarn	"	"	924240423	[Signature]
09.	Chitandha	"	"	7309913150	[Signature]

[Signature]

Attendance Sheet AT WARD NO 08

Attendance Sheet At SPS 4.6 MAIN GINANI

Photographs & Attendance Sheet of Training / Orientation at Sirohi on dated 29.03.2024



Attendance Sheet for Safety Training/Orientation

Name of Project: Rajasthan Secondary Towns Development Sector Project (RSTDSP) – Sirohi Water Supply and Sewerage Subproject, District - Sirohi, Rajasthan

Orientation/Training Topic: Environment Health and Safety Training

Date: 29/03/2024

Time: 12:00

Place: Intake

S.No	Participant	Depart./Agency	Designation	Mobile Number	Signature
1	Togendera	LAT	Mason	9680205609	मोहन
2	Mota Ram	LAT	H/O/PC	7737680551	मोहन
3	Banubhai Lal	LAT	H/O/PC	639741611	मोहन
4	Bhansari	"	Carpenter	6378289767	मोहन
5	Del Singh	"	H/O/PC	7857949792	मोहन
6	Mahendera	"	H/O/PC	N/A	मोहन
7	Akhilendra	"	Mason	9558575326	मोहन
8	Pura Ram	"	Carpenter	7852006232	मोहन
9	Bhansari	"	H/O/PC	N/A	मोहन
10					
11					
12					
14					
15					
16					
17					

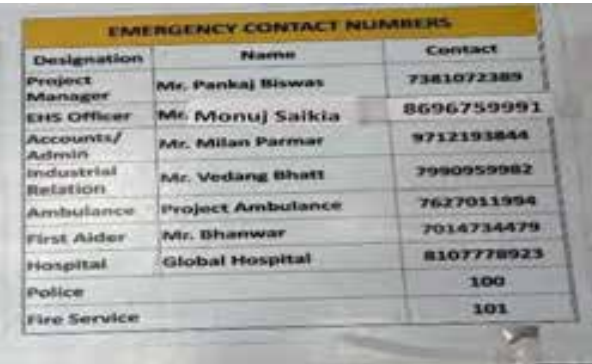
Appendix 8: EHS ACTIVITIES BY DIFFERENT CONTRACTORS DURING REPORTING PERIOD (October 2023 to March 2024)

EHS Activities by contractors at Abu Road Town during October 2023 to March 2024

Town: Abu Road	
	
Photos of Contractor Workmen Training (CWT)	Mock Drill Training on Fire Drill
	
Mock Drill Training on Electrocution	Mock Drill Training on Emergency Evacuation
	
Training on Material handling	Mock Drill Training on Fall from height
 Abu Road Jodhpur Division Rajasthan Altitude: 222.1m Speed: 1.9km/h Index number: 512 19 Mar 2024 4:31:31 pm	
DISINFICATION activity	Site Specific Training (SST)

	
Pep Talk Tarining to workers at site	OCP training to workers at Site
	
Electrical Safety Training	Induction training
	
Training on Road safety	Training on Work at Height safety
	
Good Practise : Tree Plantation activity	First Aid Training

Good Practice at Work Site – Abu road

																															
Good Practice Barricading	Good Practice Excavation & trenching																														
 <table><thead><tr><th>Designation</th><th>Name</th><th>Contact</th></tr></thead><tbody><tr><td>Project Manager</td><td>Mr. Pankaj Biswas</td><td>7381072389</td></tr><tr><td>EHS Officer</td><td>Mr. Monuj Saikia</td><td>8696759991</td></tr><tr><td>Accounts/ Admin</td><td>Mr. Milan Parmar</td><td>9712193844</td></tr><tr><td>Industrial Relation</td><td>Mr. Vedang Bhatt</td><td>7990959982</td></tr><tr><td>Ambulance</td><td>Project Ambulance</td><td>7627011994</td></tr><tr><td>First Aider</td><td>Mr. Bhanwar</td><td>7014734479</td></tr><tr><td>Hospital</td><td>Global Hospital</td><td>8107778923</td></tr><tr><td>Police</td><td></td><td>100</td></tr><tr><td>Fire Service</td><td></td><td>101</td></tr></tbody></table>	Designation	Name	Contact	Project Manager	Mr. Pankaj Biswas	7381072389	EHS Officer	Mr. Monuj Saikia	8696759991	Accounts/ Admin	Mr. Milan Parmar	9712193844	Industrial Relation	Mr. Vedang Bhatt	7990959982	Ambulance	Project Ambulance	7627011994	First Aider	Mr. Bhanwar	7014734479	Hospital	Global Hospital	8107778923	Police		100	Fire Service		101	
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First Aider	Mr. Bhanwar	7014734479																													
Hospital	Global Hospital	8107778923																													
Police		100																													
Fire Service		101																													
Good Practise Emergency No. Display	Good Practise - Posters & Sign Board																														
																															
Good Practice - Fire extinguisher at Guest House	Good Practice Excavation & trenching																														
																															
Good Practise House Keeping	Good Practise PPEs																														

EHS Activities by contractors at Sirohi town during October 2023 to March 2024**Town: Sirohi****Photos of Contractor Workmen Training (CWT)****Site Specific Training (SST Training)****On Job Training (OJT)****Mock Drill Training****EHS Alert Training****Site Specific Training****Good Practise House Keeping****Good Practise PPEs**

**Good Practose - Fire extinguisher at Guest House****Good Practise Emergency No. Display****COVID-19 Compliance – Mask Distribution****COVID-19 Compliance – Sanitization****Medical Health Checkup of site workers****Labor Meeting about Safety Awareness****Quiz competition****PPE Awareness Training**

EHS Activities by contractors at Fatehpur town during October 2023 to March 2024**Town: FATEHPUR****Medical Health Checkup****Site Specific Training****Mock drill Training****Induction training****Training on Work at Height safety****Training on Road safety****Alert Training****PEP talk**

**Electrical Safety Training****Disinfection Activity****Good Practice at work Site (Fatehpur)****Good Practise Barricading****Good Practise Excavation & trenching****GoodPractise House Keeping & Emergency No. Display****Good Practise Material handling****Good Practise - Display of Posters & Sign Board****Good Practise PPEs**

EHS Activities by contractors at Laxmangarh town during October 2023 to March 2024

Town: Laxmangarh	
	
Medical Health Checkup	Site Specific Training
	
PEP talk	Alert Training
	
Induction training	Disinfection Activity

	
Others Training (OT)	Training on Road safety
	
Good Practise House Keeping	Good Practise PPEs
	
Good Practose - Fire extinguisher at Guest House	Good Practise Emergency No. Display

EHS Activities by contractors at Ratangarh town during October 2023 to March 2024

Town: Ratangarh	
	
HEAT STROKE TRAINING (Mock Drill)	FIRST AID TRAINING
	
PepTalk training to Workers at Site	Site Specific Training (SST)
	
Medical Health Checkup	Site Specific Training
	
Electrical Safety Training	Training on Road safety

**Alert Training****Induction training****Workman Quiz****Photos of Tree Plantation****EHS Induction & COVID Precaution Training****Training on Road safety****Training on Work at Height safety****Others Training (OT)**

 33.94°N, 74.6°E, Ratangarh, Rajasthan 331022, India Ratangarh Rajasthan India 33°C 91°F 2024-03-29(Fri) 11:29(am)	
Good Practise: Barricading	Good Practise: Excavation & trenching
 33.94°N, 74.6°E, Ratangarh, Rajasthan 331022, India Ratangarh Rajasthan India 31°C 88°F 2024-03-30(Sat) 09:48(am)	
Good Practise: Fire Extinguisher Training	Good Practise: Housekeeping
	
Good Practise: Disinfection Activity	Good Practise: PPEs
	
Good Practise Electrical Safety	Good Practise: Material handling

	
Good Practose - Fire extinguisher at Guest House	Good Practise Emergency No. Display
	
Good Practise - Posters & Sign Board	Good Practise - Display of Posters & Sign Board

EHS Activities by contractors at Sardarshahar town during October 2023 to March 2024**Town Sardarshahar****Photos of Contractor Workmen Training (CWT)****Mock Drill Training****Job Specific Training****Site Specific Training****First Aid Training****Medical Health Checkup****Alert Training****Tree Plantation Activity**

	
PEP talk	Disinfection Activity
	
Induction training	Safety Quiz Competition
	
Good Practise-ElectricalSafety Awareness	Good Practise-Material Stacking
	
Good Practise Housekeeping Campaign	Good Practise House Keeping



Good Practise barricading



Good Practise Excavation & trenching



	Decimal	DMS
Latitude	28.455949	28°27'21" N
Longitude	74.501457	74°30'5" E

2024-01-19(Fri) - 16:54

Good Practise PPE's



	Decimal	DMS
Latitude	28.425249	28°25'30" N
Longitude	74.478392	74°28'42" E

2024-01-22(Mon) - 17:15

Electrical Safety Training



Good Practise - Posters & Sign Board



Good Practise Emergency No. Display

EHS Activities by contractors at Banswara town during October 2023 to March 2024**Name of Town: Banswara****Contractor Workmen Training (CWT)****Site Specific training****PPE's Training****Electrical safety training****House Keeping Training****First Aid Training****Training On Material Handling****Road Safety Training**

	
Contractor Workmen Training (CWT)	Ladder safety training
	
Induction training	Excavation Safety Training

EHS Activities by contractors at Pratapgarh town during October 2023 to March 2024

	
Confined Space Safety Training	Hand Sanitization activity of workers at site

**Appendix 9: SAFEGUARD TRAININGS CONDUCTED BY CONTRACTORS
(OCTOBER 2023 TO MARCH 2024)**

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
Abu Road Town					
1.	OT	03.10.2023	Manpur	Monuj Saikia	8
2.	CWT	04.10.2023	Manpur	Monuj Saikia	8
3.	OT	06.10.2023	Manpur	Monuj Saikia	4
4.	CWT	07.10.2023	Manpur	Monuj Saikia	6
5.	CWT	09.10.2023	Manpur	Monuj Saikia	9
6.	SST	11.10.2023	Manpur	Monuj Saikia	7
7.	SST	17.10.2023	Manpur	Monuj Saikia	5
8.	CWT	21.10.2023	Manpur	Monuj Saikia	9
9.	OT	21.10.2023	Manpur	Monuj Saikia	6
10.	EHS ALERT	27.10.2023	Manpur	Monuj Saikia	13
11.	SST	08.11.2023	Manpur	Monuj Saikia	8
12.	SST	10.11.2023	Manpur	Monuj Saikia	5
13.	OT	17.11.2023	Manpur	Monuj Saikia	3
14.	OT	18.11.2023	Manpur	Monuj Saikia	8
15.	CWT	20.11.2023	Manpur	Monuj Saikia	8
16.	CWT	21.11.2023	Manpur	Monuj Saikia	11
17.	SST	22.11.2023	Manpur	Monuj Saikia	8
18.	SST	01.12.2023	Manpur	Monuj Saikia	5
19.	CWT	02.12.2023	Manpur	Monuj Saikia	14
20.	CWT	11.12.2023	Manpur	Monuj Saikia	10
21.	SST	11.12.2023	Manpur	Monuj Saikia	6
22.	SST	12.12.2023	Manpur	Monuj Saikia	8
23.	SST	18.12.2023	Manpur	Monuj Saikia	8
24.	SST	18.12.2023	Manpur	Monuj Saikia	13
25.	OCP	06.12.2023	Manpur	Monuj Saikia	6
26.	SST	23.12.2023	Manpur	Monuj Saikia	8
27.	SST	26.12.2023	Manpur	Monuj Saikia	8
28.	SST	02.01.2024	Manpur	Monuj Saikia	6
29.	SST	04.01.2024	Manpur	Monuj Saikia	4
30.	CWT	11.01.2024	Manpur	Monuj Saikia	7
31.	OCP	17.01.2024	Manpur	Monuj Saikia	4
32.	SST	18.01.2024	Manpur	Monuj Saikia	5
33.	OCP	19.01.2024	Manpur	Monuj Saikia	6
34.	CWT	24.01.2024	Manpur	Monuj Saikia	8
35.	SST	24.01.2024	Manpur	Monuj Saikia	4
36.	CWT	29.01.2024	Manpur	Monuj Saikia	12
37.	SST (STAFF)	19.01.2023	Manpur	Monuj Saikia	14
38.	CWT	01.02.2024	Manpur	Monuj Saikia	5
39.	SST	01.02.2024	Manpur	Monuj Saikia	5
40.	SST	03.02.2024	Manpur	Monuj Saikia	5
41.	OCP	06.02.2024	Santpur	Monuj Saikia	5
42.	OCP	16.02.2024	Santpur	Monuj Saikia	5
43.	SST	16.02.2024	Manpur	Monuj Saikia	4
44.	SST	17.02.2024	Manpur	Monuj Saikia	4
45.	OCP	19.02.2024	Santpur	Monuj Saikia	5

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
46.	SST	21.02.2024	Manpur	Monuj Saikia	5
47.	CWT	22.02.2024	Manpur	Monuj Saikia	20
48.	CWT	01.03.2024	Manpur	Monuj Saikia	10
49.	SST	02.03.2024	Manpur	Monuj Saikia	5
50.	SST	04.03.2024	Manpur	Monuj Saikia	4
51.	EHS ALERT	06.03.2024	Santpur	Monuj Saikia	5
52.	SST	07.03.2024	Santpur	Monuj Saikia	4
53.	SST	07.03.2024	Manpur	Monuj Saikia	2
54.	EHS ALERT	16.03.2024	Manpur	Monuj Saikia	4
55.	SST_STAFF	20.03.2024	Santpur	Monuj Saikia	13
56.	SST_STAFF	20.03.2024	Santpur	Monuj Saikia	13
57.	EHS ALERT	26.03.2023	Manpur	Monuj Saikia	8
58.	SST_STAFF	27.03.2024	Santpur	Monuj Saikia	15
Sirohi Town					
1.	CWT Training	05/10/23	SIROHI	Satish/Subhash	25
2.	SST Training	11/10/23	SIROHI	Satish/Subhash	15
3.	SST Training	15/10/23	SIROHI	Subhash /Satish	12
4.	CWT Training	17/10/23	SIROHI	Satish/Subhash	13
5.	CWT Training	19/10/23	SIROHI	Subhash /Satish	14
6.	On Job Training	22/10/23	SIROHI	Satish/Subhash	10
7.	CWT Training	03/11/23	SIROHI	Subhash	18
8.	SST Training	09/11/23	SIROHI	Satish/Subhash	9
9.	SST Training	10/11/23	SIROHI	Satish/Subhash	10
10.	CWT Training	17/11/23	SIROHI	Subhash /Satish	14
11.	CWT Training	19/11/23	SIROHI	Subhash	12
12.	On Job Training	21/11/23	SIROHI	Satish/Subhash	10
13.	SST Training	22/11/23	SIROHI	Satish/Subhash	11
14.	SST Training	22/11/23	SIROHI	Satish/Subhash	14
15.	On Job Training	26/11/23	SIROHI	Subhash /Satish	09
16.	CWT Training	02/12/23	SIROHI	Satish/Subhash	15
17.	SST Training	04/12/23	SIROHI	Satish/Subhash	10
18.	SST Training	07/12/23	SIROHI	Subhash /Satish	09
19.	CWT Training	13/12/23	SIROHI	Subhash /Sahbaz	13
20.	CWT Training	17/12/23	SIROHI	Satish/Subhash	12
21.	On Job Training	21/12/23	SIROHI	Satish/Subhash	10
22.	SST Training	25/12/23	SIROHI	Satish/Subhash	09
23.	SST Training	26/12/23	SIROHI	Satish/Subhash	08
24.	On Job Training	30/12/23	SIROHI	Subhash /Satish	09
25.	CWT Training	03/01/24	SIROHI	Subhash /Sahbaz	16
26.	SST Training	05/01/24	SIROHI	Satish/Subhash	12
27.	SST Training	10/01/24	SIROHI	Satish/Subhash	11
28.	CWT Training	15/01/24	SIROHI	Satish/Subhash	09
29.	CWT Training	18/01/24	SIROHI	Satish/Subhash	13
30.	On Job Training	22/01/24	SIROHI	Satish/Subhash	10
31.	SST Training	24/01/24	SIROHI	Satish/Subhash	09
32.	SST Training	25/01/24	SIROHI	Satish/Subhash	11
33.	On Job Training	28/01/24	SIROHI	Subhash /Satish	08
34.	CWT Training	02/02/24	SIROHI	Satish/Subhash	12

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
35.	SST Training	06/02/24	SIROHI	Satish/Subhash	10
36.	SST Training	08/02/24	SIROHI	Satish/Subhash	11
37.	CWT Training	10/02/24	SIROHI	Subhash /Satish	13
38.	SST Training	15/02/24	SIROHI	Satish/Subhash	10
39.	On Job Training	18/02/24	SIROHI	Satish	08
40.	SST Training	20/02/24	SIROHI	Subhash	07
41.	SST Training	22/02/24	SIROHI	Subhash	10
42.	On Job Training	25/02/24	SIROHI	Satish	09
43.	CWT Training	02/03/24	SIROHI	Satish/Subhash	15
44.	SST Training	07/03/24	SIROHI	Subhash /Satish	10
45.	SST Training	09/03/24	SIROHI	Satish/Subhash	09
46.	CWT Training	12/03/24	SIROHI	Satish	12
47.	SST Training	15/03/24	SIROHI	Subhash	08
48.	On Job Training	20/03/24	SIROHI	Subhash	09
49.	SST Training	22/03/24	SIROHI	Satish	10
50.	SST Training	27/03/24	SIROHI	Subhash	10
51.	On Job Training	29/03/24	SIROHI	Satish	11
Pratapgarh Town					
1.	PPE 's safety Training	08/10/2023	STP		13
2.	Road Safety Training	14/10/2023	STP		10
3.	Covid-19 Safety training	16/10/2023	STP		29
4.	General Health safety Training	20/10/2023	STP		15
5.	PPE 's safety Training	08/11/2023	STP	Ehs person	13
6.	Road Safety Training	12/11/2023	STP	Ehs person	11
7.	Covid-19 Safety training	15/11/2023	STP	Ehs Person	25
8.	General Health safety Training	20/11/2023	STP	Ehs Person	15
9.	PPE 's safety Training	08/12/2023	STP	Ehs person	07
10.	Road Safety Training	13/12/2023	STP	Ehs person	10
11.	Covid-19 Safety training	17/12/2023	STP	Ehs person	13
12.	General Health safety Training	22/12/2023	STP	Ehs person	13
13.	PPE 's safety Training	05/01/2024	STP	Manoj Chaudhary	08
14.	Road Safety Training	13/01/2024	STP	Manoj Chaudhary	08
15.	Covid-19 Safety training	22/01/2024	STP	Manoj Chaudhary	06
16.	General Health safety Training	30/01/2024	STP	Manoj Chaudhary	07
17.	PPE 's safety Training	05/01/2024	STP	Manoj Chaudhary	08
18.	Road Safety Training	13/01/2024	STP	Manoj Chaudhary	08
19.	Covid-19 Safety training	22/01/2024	STP	Manoj Chaudhary	06
20.	General Health safety Training	30/01/2024	STP	Manoj Chaudhary	07
Banswara Town					
1.	Electrical safety training		No Activity		
2.	Health Check up		No Activity		
3.	Site Specific training	19/10/2023	Harijan Basti	MD FAIZAL	05

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
4.	PPE 's safety Training	07/10/2023	WTP, Aen Campus	MD FAIZAL	07
5.	Training Of Material Handling	23/10/2023	WTP, Aen Campus	MD FAIZAL	07
6.	Covid – 19 Training	15/10/2023	Madar colony (Banswara)	MD FAIZAL	10
7.	Contractor Workmen Training	17/10/2023	WTP, Aen Campus	MD FAIZAL	12
8.	Work at Height Training	16/10/2023	WTP Aen Campus	MD FAIZAL	02
9.	House Keeping Training	14/10/2023	Madar colony	MD FAIZAL	10
10.	Excavation Safety Training	08/10/2023	Harijan Basti	MD FAIZAL	08
11.	Ladder Safety Training	09/10/2023	WTP, Aen Campus	MD FAIZAL	12
12.	Labour Meeting	26-10-2023	WTP, Aen Campus	ASHIS BADAURIYA	15
13.	Road Safety Training	22/10/2023	Madar colony (Banswara)	MD FAIZAL	06
14.	House Keeping Training	25/01/2024	Activity	ASHISH SINGH BHADAURIA	23
15.	First Aid Training	18/02/2024	SINDHI COLONY	ASHISH SINGH	32
16.	Fire Safety Training	19/02/2024	MALIWADA	ASHISH SINGH	19
17.	House Keeping Training	25/02/2024	TRIMBAKES HWAR TEMPLE	ASHISH SINGH BHADAURIA	23
18.	Labour Meeting	04-02-2023	HARIJAN BASTI	ASHISH SINGH	26
19.	Electrical safety training	02/03/2024	Ratlamroad	Ashish Singh	12
20.	PPE'ssafetyTraining	08/03/2024	Udaipurroad	Bhadauria	14
21.	ContractorWorkmenTraining	12/03/2024	Ratitalai	Ashish Singh	09
22.	RoadSafetyTraining	11/03/2024	Labourcamp	Bhadauria	1driver
Sardarshahar Town					
1.	EHS Alert	2023/10/28	Sardarshahar	Rakesh Kumar Sahu	12
2.	Health Surveillance	2023/10/14	Sardarshahar	Rakesh Kumar Sahu	11
3.	Mock Drill	2023/10/26	Sardarshahar	Rakesh Kumar Sahu	9
4.	EHS Alert	2023/10/25	Sardarshahar	Rakesh Kumar Sahu	14
5.	5s At Workplace	2023/10/12	Sardarshahar	Rakesh Kumar Sahu	20
6.	Work at Height	2023/10/17	Sardarshahar	Rakesh Kumar Sahu	9
7.	Mock Drill	2023/10/17	Sardarshahar	Rakesh Kumar Sahu	12
8.	5s At Workplace	2023/10/09	Sardarshahar	Rakesh Kumar Sahu	11
9.	EHS Alert	2023/10/12	Sardarshahar	Rakesh Kumar Sahu	20
10.	Personal Protective Equipment	2023/10/07	Sardarshahar	Rakesh Kumar Sahu	8
11.	5s At Workplace	2023/10/11	Sardarshahar	Rakesh Kumar Sahu	8
12.	5s At Workplace	2023/10/12	Sardarshahar	Rakesh Kumar Sahu	20
13.	5s At Workplace	2023/10/07	Sardarshahar	Rakesh Kumar Sahu	7
14.	EHS Alert	2023/10/03	Sardarshahar	Rakesh Kumar Sahu	8

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
15.	EHS Alert	2023/11/30	Sardarshahar	Rakesh Kumar Sahu	15
16.	Electrical Safety	2023/11/30	Sardarshahar	Rakesh Kumar Sahu	19
17.	Mock Drill	2023/11/28	Sardarshahar	Rakesh Kumar Sahu	6
18.	Mock Drill	2023/11/27	Sardarshahar	Rakesh Kumar Sahu	6
19.	Defensive Driving	2023/11/24	Sardarshahar	Rakesh Kumar Sahu	7
20.	Electrical Safety	2023/11/24	Sardarshahar	Rakesh Kumar Sahu	4
21.	Electrical Safety	2023/11/27	Sardarshahar	Rakesh Kumar Sahu	4
22.	EHS Alert	2023/11/23	Sardarshahar	Rakesh Kumar Sahu	8
23.	WET IC EHS Alert 27 (FY 24)- WAH Safety Campaign-7	2023/12/29	Sardarshahar	Rakesh Kumar Sahu	10
24.	Mock Drill	2023/12/30	Sardarshahar	Rakesh Kumar Sahu	8
25.	Manual Material Handling	2023/12/15	Sardarshahar	Rakesh Kumar Sahu	13
26.	Environment Management	2023/12/15	Sardarshahar	Rakesh Kumar Sahu	14
27.	Work at Height	2023/12/14	Sardarshahar	Rakesh Kumar Sahu	14
28.	Electrical Safety	2023/12/14	Sardarshahar	Rakesh Kumar Sahu	14
29.	Electrical Safety	2023/12/14	Sardarshahar	Rakesh Kumar Sahu	7
30.	Work at Height	2023/12/18	Sardarshahar	Rakesh Kumar Sahu	8
31.	5s At Workplace	2023/12/21	Sardarshahar	Rakesh Kumar Sahu	6
32.	EHS Alert	2023/12/13	Sardarshahar	Rakesh Kumar Sahu	8
33.	Mock Drill	2023/12/12	Sardarshahar	Rakesh Kumar Sahu	8
34.	EHS Alert	2023/12/08	Sardarshahar	Rakesh Kumar Sahu	10
35.	EHS Alert	2023/12/04	Sardarshahar	Rakesh Kumar Sahu	7
36.	EHS Alert	2023/12/01	Sardarshahar	Rakesh Kumar Sahu	20
37.	Health Surveillance	2023/12/01	Sardarshahar	Rakesh Kumar Sahu	11
38.	Environment Management	2023/12/02	Sardarshahar	Rakesh Kumar Sahu	20
39.	Health Surveillance	2023/12/01	Sardarshahar	Rakesh Kumar Sahu	20
40.	Behavioral Based Safety	2024/01/16	Sardarshahar	Rakesh Kumar Sahu	28
41.	Near Miss training	2024/01/16	Sardarshahar	Rakesh Kumar Sahu	15
42.	Mock Drill	2024/01/27	Sardarshahar	Rakesh Kumar Sahu	12
43.	Work at Height	2024/01/19	Sardarshahar	Rakesh Kumar Sahu	11
44.	Emergency Response Plan	2024/01/17	Sardarshahar	Rakesh Kumar Sahu	22
45.	Defensive Driving	2024/01/13	Sardarshahar	Rakesh Kumar Sahu	15
46.	Excavation and Trenching	2024/01/22	Sardarshahar	Rakesh Kumar Sahu	20
47.	Excavation and Trenching	2024/01/19	Sardarshahar	Rakesh Kumar Sahu	20
48.	Electrical Safety	2024/01/12	Sardarshahar	Rakesh Kumar Sahu	20
49.	Defensive Driving	2024/01/13	Sardarshahar	Rakesh Kumar Sahu	17
50.	WET IC EHS Alert 31 (FY 24) - EHS Campaign - Implementation of OCP-7	2024/01/13	Sardarshahar	Rakesh Kumar Sahu	15
51.	WET IC EHS Alert 31 (FY 24) - EHS Campaign - Implementation of OCP-7	2024/01/13	Sardarshahar	Rakesh Kumar Sahu	09
52.	WET IC EHS Alert 31 (FY 24) - EHS Campaign - Implementation of OCP-7	2024/01/13	Sardarshahar	Rakesh Kumar Sahu	04
53.	Mock Drill	2024/01/13	Sardarshahar	Rakesh Kumar Sahu	09
54.	Emergency Response Plan	2024/01/11	Sardarshahar	Rakesh Kumar Sahu	12
55.	Waste Disposal/Management	2024/01/10	Sardarshahar	Rakesh Kumar Sahu	4

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
56.	Personal Protective Equipment	2024/01/09	Sardarshahar	Rakesh Kumar Sahu	12
57.	WET IC EHS Alert 30 (FY 24) - Toppling of Man Lift Incident-7	2024/01/08	Sardarshahar	Rakesh Kumar Sahu	05
58.	Work at Height	2024/02/27	Sardarshahar	Rakesh Kumar Sahu	09
59.	Mock Drill	2024/02/27	Sardarshahar	Rakesh Kumar Sahu	09
60.	EHS Alert	2024/02/26	Sardarshahar	Rakesh Kumar Sahu	04
61.	Behavioral Based Safety	2024/02/01	Sardarshahar	Rakesh Kumar Sahu	15
62.	EHS Alert	2024/02/24	Sardarshahar	Rakesh Kumar Sahu	07
63.	EHS Alert	2024/02/24	Sardarshahar	Rakesh Kumar Sahu	08
64.	EHS Alert	2024/02/22	Sardarshahar	Rakesh Kumar Sahu	07
65.	Electrical Safety	2024/02/20	Sardarshahar	Rakesh Kumar Sahu	07
66.	Excavation and Trenching	2024/02/16	Sardarshahar	Rakesh Kumar Sahu	12
67.	Mock Drill	2024/02/16	Sardarshahar	Rakesh Kumar Sahu	12
68.	Personal Protective Equipment	2024/02/15	Sardarshahar	Rakesh Kumar Sahu	15
69.	EHS Alert	2024/02/05	Sardarshahar	Rakesh Kumar Sahu	20
70.	Behavioral Based Safety	2024/02/16	Sardarshahar	Rakesh Kumar Sahu	15
71.	WET IC EHS Alert 38 (FY 24)- Chemical Ingestion Incident-7	2024/03/30	Sardarshahar	Rakesh Kumar Sahu	7
72.	WET IC EHS Alert 37 (FY 24)- Safety Helmet Saved Life-7	2024/03/30	Sardarshahar	Rakesh Kumar Sahu	8
73.	WET IC EHS Alert 36 (FY 24)- Excavation Cave In Incident -7	2024/03/28	Sardarshahar	Rakesh Kumar Sahu	13
74.	WET IC EHS Alert 36 (FY 24)- Excavation Cave In Incident -7	2024/03/28	Sardarshahar	Rakesh Kumar Sahu	4
75.	WET IC EHS Alert 35 (FY 24)- Heat Stress-7	2024/03/29	Sardarshahar	Rakesh Kumar Sahu	7
76.	WET IC EHS Alert 34 (FY 24)- WAH Safety Campaign-7	2024/03/27	Sardarshahar	Rakesh Kumar Sahu	7
77.	WET IC EHS Alert 36 (FY 24)- Excavation Cave In Incident -7	2024/03/22	Sardarshahar	Rakesh Kumar Sahu	23
78.	SST	2024/03/22	Sardarshahar	Rakesh Kumar Sahu	23
79.	SST	2024/03/20	Sardarshahar	Rakesh Kumar Sahu	8
80.	SST	2024/03/16	Sardarshahar	Rakesh Kumar Sahu	12
81.	other-Internal	2024/03/19	Sardarshahar	Rakesh Kumar Sahu	15
82.	WET IC EHS Alert 35 (FY 24)- Heat Stress-7	2024/03/16	Sardarshahar	Rakesh Kumar Sahu	10
83.	CWT	2024/03/05	Sardarshahar	Rakesh Kumar Sahu	11
84.	CWT	2024/03/01	Sardarshahar	Rakesh Kumar Sahu	9
85.	other-Internal	2024/03/14	Sardarshahar	Rakesh Kumar Sahu	8
86.	other-Internal	2024/03/14	Sardarshahar	Rakesh Kumar Sahu	9

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
87.	WET IC EHS Alert 33 (FY 24)- EHS Campaign - Electrical Safety-7	2024/03/04	Sardarshahar	Rakesh Kumar Sahu	17
88.	SST	2024/03/06	Sardarshahar	Rakesh Kumar Sahu	18
89.	WET IC EHS Alert 33 (FY 24)- EHS Campaign - Electrical Safety-7	2024/03/05	Sardarshahar	Rakesh Kumar Sahu	7
Ratangarh Town					
1.	Door to door meeting	08-09-23	Zone:- 1,	Praveen singh and Himanshu mandan	30
2.	Community meeting	13-09-23	Zone:- 2,	Praveen singh and Himanshu mandan	35
3.	Aanganwadi Meeting with kids	22-09-23	Zone:- 4,	Praveen singh and Himanshu mandan	20
4.	Door to door meeting	15-11-23	Zone:- 3,4	Praveen singh and Himanshu mandan	30
5.	Community meeting	21-11-23	Zone:- 3,4	Praveen singh and Himanshu mandan	20
6.	Aanganwadi Meeting with kids	27-11-23	Zone:- 4,5	Praveen singh and Himanshu mandan	20
7.	Door to door meeting	16-12-23	Zone:- 3,4,5	Praveen singh and Chhoturam mali	45
8.	Community meeting	20-12-23	Zone:- 3,4,5	Praveen singh and Chhoturam mali	30
9.	Aanganwadi Meeting with kids	25-12-23	Zone:- 3,4,5	Praveen singh and Chhoturam mali	30
10.	Thermal Scanning Activities	19/12/2023	soorsagar	JAI PRAKASH SAINI	55
11.	Induction Training	25/12/2023	nandri	JAI PRAKASH SAINI	12
12.	Glucose Distribution to site Work	19/11/2023	Gujraws	JAI PRAKASH SAINI	15
13.	Hand Sanitizer Activities	05/12/2023	Ramdev Nager	JAI PRAKASH SAINI	9
14.	Disinfection Activity	12/12/2023	Mandor	JAI PRAKASH SAINI	14
15.	Electrical safety Training	20/12/2023	Soorsagar	JAI PRAKASH SAINI	13
16.	Fire And Safety Training	02/12/2023	Mandore police Thana	JAI PRAKASH SAINI	11
17.	Distribution of Face Mask	05/12/2023	Soorsagar	JAI PRAKASH SAINI	22
18.	EHS alert	02/12/2023	Mandor	JAI PRAKASH SAINI	11
19.	Road safety	02/12/2023	Padala bera	JAI PRAKASH SAINI	10
20.	Door to door meeting	12-01-24	Zone:- 3,4,5	Praveen Singh and Chhoturam mali	55
21.	Community meeting	18-01-24	Zone:- 3,4,5	Praveen singh and Chhoturam mali	35
22.	Aanganwadi Meeting with kids	27-01-24	Zone:- 3,4,5	Praveen singh and Chhoturam mali	45
23.	Door to door meeting	09-02-24	Zone:- 2,3,4,5	Praveen singh and Chhoturam mali	40
24.	Community meeting	17-02-24	Zone:- 2,3,4,5		30

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
25.	Aanganwadi Meeting with kids	21-02-24	Zone:- 2,3,4,5		45
26.	Door to door meeting	07-03-24	Zone:- 1,2,3,4,5		32
27.	Community meeting	12-03-24	Zone:- 1,2,3,4,5		27
28.	Aanganwadi Meeting with kids	27-03-24	Zone:- 1,2,3,4,5		22
Fatehpur Town					
1.	COMMUNITY AWARENESS	03-10-23	Zone:- 2,	Mr.Kamalesh, Mr.Anilsingh, Mis Manisha, Mr.Sunilkumar	15
2.	DOOR TO DOOR CONSULTATION	28-10-23	Zone:- 2,		20
3.	DISCUSSION ABOUT SITE VISIT AND GRIEVANCE	06-10-23	Zone:- 1,		10
Laxmangarh Town					
1.	Awareness program conducted New Water Meter File Receipt	04-10-2023,	Laxmangarh	Mr.Praveen Mr. Jeevan Mr.Ravi Prakash Mis. Priyanka Mis, Pooja Mr. Deep Chand Mr. Manishsaini	15
2.	Awareness program conducted New Water Meter File Receipt	10-10-2023,	Laxmangarh		15
3.	A Awareness program conducted New Water Meter File Receipt	14-10-2023	Laxmangarh		15
Khetri Town					
4.	Excavation Safety Training	06-10-2023	Ward 12	Raj Kapoor	04
5.	HIV-AIDS Awareness	13-10-2023	STP	Yogesh Atray/ Raj Kapoor	10
6.	Safety Training	26-10-2023	PIU Office	Raj Kapoor	05
7.	Safety Training	31-10-2023	Kheriya ki dhani	Raj Kapoor	06
8.	Excavation Safety Training	06-11-2023	Ward 18	Raj Kapoor	04
9.	HIV-AIDS Awareness	17-11-2023	STP	Raj Kapoor	10
10.	Safety Training	22-11-2023	Telav Mohalla	Raj Kapoor	05
11.	Safety Training	24-11-2023	Kheriya ki dhani	Raj Kapoor	06
12.	Safety Training	14-12-2023	Ward 04	Raj Kapoor	10
13.	Safety Training	26-12-2023	Ward 24	Raj Kapoor	05
14.	Safety Training	28-12-2023	Ward 24	Raj Kapoor	06
15.	Safety Training	10-01-2024	Ward 04	Raj Kapoor	06
16.	Safety Training	18-01-2024	Ward 06	Raj Kapoor	07
17.	Safety Training	29-01-2024	Ward 24	Raj Kapoor	06
18.	Importance of Fire Extinguisher Safety Training	11-02-2024	Ward 04	Raj Kapoor	06
19.	First Aid Safety Training	16-02-2024	Ward 13	Raj Kapoor	07



Environmental Monitoring Report

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June 2024

India: Rajasthan Secondary Towns Development Sector Project

Part 3 of 3: Appendix 9(continued) and Appendices 9 - 13

Prepared by Rajasthan Urban Drinking Water Sewerage and Infrastructure Corporation Limited,
Government of Rajasthan for the Asian Development Bank (ADB).

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Asian Development Bank

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
20.	Electrical Tool Handling Safety Training	24-02-2024	Ward 24	Raj Kapoor	06
21.	Safety Training	14-03-2024	Ward 21	Raj Kapoor	09
22.	Safety Training	18-03-2024	Ward 22	Raj Kapoor	4
23.	Safety Training	27-03-2024	STP	Raj Kapoor	06
24.	FAT	04.10.2023	Kuchaman	Anurag Bagherwal	09
25.	FAT	06.10.2023	Kuchaman	Anurag Bagherwal	05
26.	SST	06.10.2023	Kuchaman	Anurag Bagherwal	06
27.	CWT (EXCAVATION SAFETY, ELECTRICAL SAFETY, IMPORTANCE OF MANDATORY PPES, MATERIAL HANDLING SAFETY & SAFETY FOR COVID 19)	06.10.2023	Kuchaman	Anurag Bagherwal	05
28.	CWT (EXCAVATION SAFETY, ELECTRICAL SAFETY, IMPORTANCE OF MANDATORY PPES, MATERIAL HANDLING SAFETY & SAFETY FOR COVID 19)	07.10.2023	Kuchaman	Anurag Bagherwal	06
29.	SST	16.10.2023	Kuchaman	Anurag Bagherwal	07
30.	SST	18.10.2023	Kuchaman	Anurag Bagherwal	22
31.	EHS CAMPAIGN	18.10.2023	Kuchaman	Anurag Bagherwal	20
32.	FAT	18.10.2023	Kuchaman	Anurag Bagherwal	06
33.	CWT (EXCAVATION SAFETY, ELECTRICAL SAFETY, IMPORTANCE OF MANDATORY PPES, MATERIAL HANDLING SAFETY & SAFETY FOR COVID 19)	18.10.2023	Kuchaman	Anurag Bagherwal	06
34.	CWT (EXCAVATION SAFETY, ELECTRICAL SAFETY, IMPORTANCE OF MANDATORY PPES, MATERIAL HANDLING SAFETY & SAFETY FOR COVID 19)	21.10.2023	Kuchaman	Anurag Bagherwal	07
35.	CWT (EXCAVATION SAFETY, ELECTRICAL SAFETY, IMPORTANCE OF MANDATORY PPES, MATERIAL HANDLING SAFETY & SAFETY FOR COVID 19)	23.10.2023	Kuchaman	Anurag Bagherwal	03
36.	SST	25.10.2023	Kuchaman	Anurag Bagherwal	04
37.	SST	25.10.2023	Kuchaman	Anurag Bagherwal	05
38.	SST	25.10.2023	Kuchaman	Anurag Bagherwal	05
39.	SST	25.10.2023	Kuchaman	Anurag Bagherwal	04
40.	SST	26.10.2023	Kuchaman	Anurag Bagherwal	10

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
41.	EHS ALERT	27.10.2023	Kuchaman	Anurag Bagherwal	12
42.	EHS ALERT	27.10.2023	Kuchaman	Anurag Bagherwal	06
43.	FAT	30.10.2023	Kuchaman	Anurag Bagherwal	08
44.	MOCK DRILL (Electrocution)	16.10.2023	Kuchaman	Anurag Bagherwal	07
45.	MOCK DRILL (HIT BY VEHICLE)	16.10.2023	Kuchaman	Anurag Bagherwal	06
46.	FAT	01.11.2023	Kuchaman	Anurag Bagherwal	04
47.	CWT	01.11.2023	Kuchaman	Anurag Bagherwal	04
48.	SST	02.11.2023	Kuchaman	Anurag Bagherwal	07
49.	SST	02.11.2023	Kuchaman	Anurag Bagherwal	07
50.	SST	03.11.2023	Kuchaman	Anurag Bagherwal	05
51.	SST	03.11.2023	Kuchaman	Anurag Bagherwal	09
52.	EHS ALERT	18.11.2023	Kuchaman	Anurag Bagherwal	06
53.	SST	18.11.2023	Kuchaman	Anurag Bagherwal	07
54.	SST	18.11.2023	Kuchaman	Anurag Bagherwal	05
55.	SST	18.11.2023	Kuchaman	Anurag Bagherwal	04
56.	CWT (EXCAVATION SAFETY, ELECTRICAL SAFETY , IMPORTANCE OF MANDATORY PPES, MATERIAL HANDLING SAFETY & SAFETY FOR COVID 19)	21.11.2023	Kuchaman	Anurag Bagherwal	06
57.	CWT (EXCAVATION SAFETY, ELECTRICAL SAFETY , IMPORTANCE OF MANDATORY PPES, MATERIAL HANDLING SAFETY & SAFETY FOR COVID 19)	21.11.2023	Kuchaman	Anurag Bagherwal	03
58.	FAT	21.11.2023	Kuchaman	Anurag Bagherwal	03
59.	SST	21.11.2023	Kuchaman	Anurag Bagherwal	14
60.	FAT	22.11.2023	Kuchaman	Anurag Bagherwal	03
61.	CWT (EXCAVATION SAFETY, ELECTRICAL SAFETY , IMPORTANCE OF MANDATORY PPES, MATERIAL HANDLING SAFETY & SAFETY FOR COVID 19)	23.11.2023	Kuchaman	Anurag Bagherwal	04
62.	EHS ALERT	23.11.2023	Kuchaman	Anurag Bagherwal	04
63.	FAT	23.11.2023	Kuchaman	Anurag Bagherwal	04
64.	SST	29.11.2023	Kuchaman	Anurag Bagherwal	10
65.	MOCK DRILL (Electrocution)	20.11.2023	Kuchaman	Anurag Bagherwal	07
66.	MOCK DRILL (HIT BY VEHICLE)	20.11.2023	Kuchaman	Anurag Bagherwal	04
67.	MOCK DRILL (Confined Space Rescue)	29.11.2023	Kuchaman	Anurag Bagherwal	15
68.	FAT	02.12.2023	Kuchaman	Anurag Bagherwal	06
69.	CWT	02.12.2023	Kuchaman	Anurag Bagherwal	06

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
70.	CWT	04.12.2023	Kuchaman	Anurag Bagherwal	11
71.	FAT	04.12.2023	Kuchaman	Anurag Bagherwal	05
72.	SST	05.12.2023	Kuchaman	Anurag Bagherwal	08
73.	SST	05.12.2023	Kuchaman	Anurag Bagherwal	06
74.	CWT	05.12.2023	Kuchaman	Anurag Bagherwal	04
75.	SST	06.12.2023	Kuchaman	Anurag Bagherwal	06
76.	SST	06.12.2023	Kuchaman	Anurag Bagherwal	06
77.	CWT	06.12.2023	Kuchaman	Anurag Bagherwal	04
78.	CWT (EXCAVATION SAFETY, ELECTRICAL SAFETY, IMPORTANCE OF MANDATORY PPES, MATERIAL HANDLING SAFETY & SAFETY FOR COVID 19)	08.12.2023	Kuchaman	Anurag Bagherwal	09
79.	SST	09.12.2023	Kuchaman	Anurag Bagherwal	05
80.	CWT	11.12.2023	Kuchaman	Anurag Bagherwal	13
81.	CWT	11.12.2023	Kuchaman	Anurag Bagherwal	04
82.	FAT	12.12.2023	Kuchaman	Anurag Bagherwal	07
83.	CWT (EXCAVATION SAFETY, ELECTRICAL SAFETY, IMPORTANCE OF MANDATORY PPES, MATERIAL HANDLING SAFETY & SAFETY FOR COVID 19)	12.12.2023	Kuchaman	Anurag Bagherwal	07
84.	EHS ALERT	13.12.2023	Kuchaman	Anurag Bagherwal	07
85.	SST	13.12.2023	Kuchaman	Anurag Bagherwal	05
86.	SST	13.12.2023	Kuchaman	Anurag Bagherwal	12
87.	CWT	16.12.2023	Kuchaman	Anurag Bagherwal	10
88.	EHS ALERT	16.12.2023	Kuchaman	Anurag Bagherwal	05
89.	CWT	19.12.2023	Kuchaman	Anurag Bagherwal	03
90.	FAT	23.12.2023	Kuchaman	Anurag Bagherwal	04
91.	MOCK DRILL (Electrocution)	13.12.2023	Kuchaman	Anurag Bagherwal	05
92.	MOCK DRILL (HIT BY VEHICLE)	23.12.2023	Kuchaman	Anurag Bagherwal	04
93.	EHS ALERT	02.02.2024	Kuchaman	Anurag Bagherwal	11
94.	SST	05.02.2024	Kuchaman	Anurag Bagherwal	04
95.	SST	05.02.2024	Kuchaman	Anurag Bagherwal	08
96.	SST	05.02.2024	Kuchaman	Anurag Bagherwal	09
97.	SST	05.02.2024	Kuchaman	Anurag Bagherwal	05
98.	SST	06.02.2024	Kuchaman	Anurag Bagherwal	05
99.	SST	06.02.2024	Kuchaman	Anurag Bagherwal	08
100.	CWT	06.02.2024	Kuchaman	Anurag Bagherwal	05
101.	CWT	10.02.2024	Kuchaman	Anurag Bagherwal	03
102.	FAT	19.02.2024	Kuchaman	Anurag Bagherwal	06
103.	CWT	20.02.2024	Kuchaman	Anurag Bagherwal	04
104.	CWT	20.02.2024	Kuchaman	Anurag Bagherwal	04
105.	FAT	20.02.2024	Kuchaman	Anurag Bagherwal	06

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
106.	FAT	21.02.2024	Kuchaman	Anurag Bagherwal	03
107.	SST	21.02.2024	Kuchaman	Anurag Bagherwal	07
108.	EHS ALERT	21.02.2024	Kuchaman	Anurag Bagherwal	04
109.	SST	21.02.2024	Kuchaman	Anurag Bagherwal	06
110.	SST	21.02.2024	Kuchaman	Anurag Bagherwal	06
111.	EHS ALERT	22.02.2024	Kuchaman	Anurag Bagherwal	04
112.	EHS ALERT	22.02.2024	Kuchaman	Anurag Bagherwal	04
113.	OTHER TRAINING	22.02.2024	Kuchaman	Anurag Bagherwal	07
114.	SST	22.02.2024	Kuchaman	Anurag Bagherwal	05
115.	FAT	26.02.2024	Kuchaman	Anurag Bagherwal	08
116.	CWT	26.02.2024	Kuchaman	Anurag Bagherwal	08
117.	CWT	27.02.2024	Kuchaman	Anurag Bagherwal	04
118.	CWT	27.02.2024	Kuchaman	Anurag Bagherwal	06
119.	MOCK DRILL (Electrocution)	06.02.2024	Kuchaman	Anurag Bagherwal	06
120.	MOCK DRILL (HIT BY VEHICLE)	06.02.2024	Kuchaman	Anurag Bagherwal	06
121.	CWT	05.03.2024	Kuchaman	Anurag Bagherwal	02
122.	SST	05.03.2024	Kuchaman	Anurag Bagherwal	08
123.	SST	05.03.2024	Kuchaman	Anurag Bagherwal	03
124.	FAT	05.03.2024	Kuchaman	Anurag Bagherwal	03
125.	SST	06.03.2024	Kuchaman	Anurag Bagherwal	04
126.	CWT	06.03.2024	Kuchaman	Anurag Bagherwal	04
127.	CWT	06.03.2024	Kuchaman	Anurag Bagherwal	05
128.	CWT	06.03.2024	Kuchaman	Anurag Bagherwal	06
129.	SST	06.03.2024	Kuchaman	Anurag Bagherwal	07
130.	FAT	07.03.2024	Kuchaman	Anurag Bagherwal	05
131.	CWT	07.03.2024	Kuchaman	Anurag Bagherwal	03
132.	CWT	07.03.2024	Kuchaman	Anurag Bagherwal	05
133.	CWT	07.03.2024	Kuchaman	Anurag Bagherwal	04
134.	EHS ALERT	07.03.2024	Kuchaman	Anurag Bagherwal	05
135.	EHS ALERT	07.03.2024	Kuchaman	Anurag Bagherwal	05
136.	SST	07.03.2024	Kuchaman	Anurag Bagherwal	06
137.	SST	07.03.2024	Kuchaman	Anurag Bagherwal	07
138.	SST	09.03.2024	Kuchaman	Anurag Bagherwal	05
139.	SST	09.03.2024	Kuchaman	Anurag Bagherwal	04
140.	FAT	16.03.2024	Kuchaman	Anurag Bagherwal	04
141.	OTHER TRAINING	16.03.2024	Kuchaman	Anurag Bagherwal	16
142.	SST	22.02.2024	Kuchaman	Anurag Bagherwal	05
143.	FAT	26.02.2024	Kuchaman	Anurag Bagherwal	08
144.	CWT	26.02.2024	Kuchaman	Anurag Bagherwal	08
145.	CWT	27.02.2024	Kuchaman	Anurag Bagherwal	04
146.	CWT	27.02.2024	Kuchaman	Anurag Bagherwal	06
147.	MOCK DRILL (Electrocution)	06.02.2024	Kuchaman	Anurag Bagherwal	06
148.	MOCK DRILL (HIT BY VEHICLE)	06.02.2024	Kuchaman	Anurag Bagherwal	06
149.	MOCK DRILL(PERSON RESCUE FROM THE EXCAVATED TRENCH)	16.03.2024	Kuchaman	Anurag Bagherwal	16

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
Mandawa Town					
150.	Work at height safety training	15-10-2023	Mandawa	Manoj	06
151.	Electrical Safety Training	21-10-2023	Mandawa	Manoj	05
152.	Work at height safety training	17-11-2023	Mandawa	Manoj	08
153.	Electrical Safety Training	15-12-2023	Mandawa	Manoj	08
154.	Work at height safety training	13-01-2024	Mandawa	Manoj	07
155.	Electrical Safety Training	24-01-2024	Mandawa	Manoj	06
156.	Work at height safety training	08-02-2024	Mandawa	Manoj	07
157.	Electrical Safety Training	29-02-2024	Mandawa	Manoj	10
158.	Work at height safety training	10-03-2024	Mandawa	Manoj	06
159.	Electrical Safety Training	28-03-2024	Mandawa	Manoj	07

Directions by PMU to all PIUs for implementation of Prevention and Control Measures Adopted for COVID-19



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Rajasthan Urban Infrastructure Development Project (Unit of RUDSICO)
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No. F3 (301)(72)/RUIDP/PMU/Env/12.686 - 85

Date: 01.02.2021

Superintending Engineers,
RUIDP, PIU, Ratangarh/ Sirohi/ Kuchaman/ Banswara

Executive Engineer
RUIDP, PIU, Mandawa/ Khetri

Sub: Regarding Safe Operating Procedures (SOP) and COVID-19 Management Plan
 In all project towns under RSTDSP (RUIDP Ph-IV)

In reference to above cited subject, Safe Operating Procedures (SOP) and COVID-19 Management Plan is prepared in response to coronavirus disease (COVID-19) pandemic and being sent to PIU. You are requested to share this plan with contractors and properly monitor the implementation of the provisions of this plan at all work sites, offices and worker's camps.

(Dr Hemant Kumar Sharma)
Addl Project Director

No. F3 (301)(72)/RUIDP/PMU/Env/12.686 - 99

Date: 01.02.2021

Copy to following for information and take immediate necessary action-

1. Additional Chief Engineer, RUIDP, Zone-Jaipur/ Jodhpur.
2. Executive Engineer, PIU, Fatehpur/ Laxmangarh/ Ratangarh/ Sardarshahar/ Makrana/ Kuchamang/ Ladnu/ Didwana/ Abu Road/ Sirohi/ Banswara/ Pratapgarh.
3. Team Leader, PMCBC, Jaipur
4. Team Leader, CMSC-1, Zone-Jaipur/ CMSC-2, Zone-Jodhpur

(Praveen Ankodia)
Superintending Engineer-III

**Appendix 10: Prevention and Control Measures Adopted in RSTDSP for COVID-19
COVID-19 (Awareness, Prevention and Control) Compliance by Towns
during October 2023 to March 2024**

S. No.	Activities done	Date	Location	No. of Participants
Abu Road				
1.	Thermal screening of workers at the site	Daily	Manpur&Santpur Workmen camp	33
2.	Hand Sanitization activity of workers at the site	Daily	Abu Road	33
3.	Mask Distribution	Regularly	Abu Road	100+
4.	Office & Labor Camp Disinfection Activity	08.10.2023&14.10.2023	Manpur&Santpur	NA
5.	COVID-19 Awareness & Precautions Training for workmen and staff	01.10.2023 to 31.10.2023	Manpur	45
6.	Display of Signage for Covid-19 Awareness	Daily	All prominent locations	
7.	Health Check-up Camp	01.10.2023 to 31.10.2023	Manpur	52
8.	Site medical visit	01.10.2023 to 31.10.2023	Manpur	15
9.	Thermal screening of workers at the site	Daily	Manpur & Santpur Workmen camp	45
10.	Hand Sanitization activity of workers at the site	Daily	Abu Road	75
11.	Mask Distribution	Regularly	Abu Road	100+
12.	Office & Labor Camp Disinfection Activity	06.11.2023&18.11.2023	Manpur & Santpur	NA
13.	COVID-19 Awareness & Precautions Training for workmen and staff	01.11.2023 to 30.11.2023	Manpur	37
14.	Display of Signage for Covid-19 Awareness	Daily	All prominent locations	
15.	Health Check-up Camp	01.11.2023 to 30.11.2023	Manpur	47
16.	Site medical visit	01.11.2023 to 30.11.2023	All working site locations	32
17.	Thermal screening of workers at the site	Daily	Manpur & Santpur Workmen camp	37
18.	Hand Sanitization activity of workers at the site	Daily	Abu Road	85
19.	Mask Distribution	Regularly	Abu Road	200+
20.	Office & Labor Camp Disinfection Activity	12.12.2023&23.12.2023	Manpur & Santpur	NA
21.	COVID-19 Awareness & Precautions Training for workmen and staff	01.12.2023to31.12.2023	Manpur	67
22.	Display of Signage for Covid-19 Awareness	Daily	All prominent locations	
23.	Health Check-up Camp	01.12.2023to31.12.2023	Manpur	71
24.	Site medical visit	01.12.2023to31.12.2023	All working site locations	68
25.	Thermal screening of workers at the site	Daily	Manpur & Santpur Workmen camp	55
26.	Hand Sanitization activity of workers at the site	Daily	Abu Road	105
27.	Mask Distribution	Regularly	Abu Road	200+
28.	Office & Labor Camp Disinfection Activity	15.01.2024 & 27.01.2024	Manpur & Santpur	NA
29.	COVID-19 Awareness & Precautions Training for workmen and staff	01.01.2024 to 31.01.2024	Manpur	42

S. No.	Activities done	Date	Location	No. of Participants
30.	Display of Signage for Covid-19 Awareness	Daily	All prominent locations	
31.	Health Check-up Camp	01.01.2024 to 31.01.2024	Manpur	79
32.	Site medical visit	01.01.2024 to 31.01.2024	All working site locations	92
33.	Thermal screening of workers at the site	Daily	Manpur&Santpur Workmen camp	50
34.	Hand Sanitization activity of workers at the site	Daily	Abu Road	120
35.	Mask Distribution	Regularly	Abu Road	200+
36.	Office & Labor Camp Disinfection Activity	15.02.2024&27.02.2024	Manpur, Santpur& Office	NA
37.	COVID-19 Awareness & Precautions Training for workmen and staff	01.02.2024 to 29.02.2024	Manpur	36
38.	Display of Signage for Covid-19 Awareness	Daily	All prominent locations	
39.	Health Check-up Camp	01.02.2024 to 29.02.2024	Manpur	67
40.	Site medical visit	01.02.2024 to 29.02.2024	All working site locations	98
41.	Thermal screening of workers at the site	Daily	Manpur & Santpur Workmen camp	50
42.	Hand Sanitization activity of workers at the site	Daily	Abu Road	53
43.	Mask Distribution	Regularly	Abu Road	80+
44.	Office & Labor Camp Disinfection Activity	11.03.2024&29.03.2024	Manpur, Santpur & Office	NA
45.	COVID-19 Awareness & Precautions Training for workmen and staff	01.03.2024 to 31.03.2024	Manpur	20
46.	Display of Signage for Covid-19 Awareness	Daily	All prominent locations	
47.	Health Check-up Camp	01.03.2024 to 31.03.2024	Manpur	25
48.	Site medical visit	01.03.2024 to 31.03.2024	All working site locations	20
Sirohi				
1.	Thermal screening of workers at the site	Daily	Sirohi	150
2.	Hand Sanitization activity of workers at the site	Whole Month	Sirohi	09
3.	Mask Distribution	10/10/23	Sirohi	45
4.	Office & Labor Camp Disinfection Activity	09/10/23	Sirohi	03
5.	COVID-19 Awareness & Precautions Training for workmen and staff	05/10/23	Sirohi	33
6.	Display of Signage for Covid-19 Awareness	11/10/23	Sirohi	08
7.	Health Check-up Camp	n/a	n/a	n/a
8.	Site medical visit	8	Sirohi	89
9.	Thermal screening of workers at the site	Daily	SIROHI	70
10.	Hand Sanitization activity of workers at the site	Whole Month	SIROHI	10
11.	Mask Distribution	04/11/23	SIROHI	30
12.	Office & Labor Camp Disinfection Activity	04/11/23	SIROHI	03
13.	COVID-19 Awareness & Precautions Training for workmen and staff	10/11/23	SIROHI	25
14.	Display of Signage for Covid-19 Awareness	09/11/23	SIROHI	10
15.	Health Check-up Camp		SIROHI	
16.	Site medical visit	8	SIROHI	52
17.	Thermal screening of workers at the site	Daily	SIROHI	140
18.	Hand Sanitization activity of workers at the site	Whole Month	SIROHI	10

S. No.	Activities done	Date	Location	No. of Participants
19.	Mask Distribution	03/12/23	SIROHI	90
20.	Office & Labor Camp Disinfection Activity	03/12/23	SIROHI	04
21.	COVID-19 Awareness & Precautions Training for workmen and staff	09/12/23	SIROHI	85
22.	Display of Signage for Covid-19 Awareness	08/12/23	SIROHI	10
23.	Health Check-up Camp		SIROHI	
24.	Site medical visit	8	SIROHI	103
25.	Thermal screening of workers at the site	Daily	SIROHI	140
26.	Hand Sanitization activity of workers at the site	Whole Month	SIROHI	10
27.	Mask Distribution	daily	SIROHI	90
28.	Office & Labor Camp Disinfection Activity	daily	SIROHI	04
29.	COVID-19 Awareness & Precautions Training for workmen and staff	09/1/24	SIROHI	85
30.	Display of Signage for Covid-19 Awareness	daily	SIROHI	10
31.	Health Check-up Camp	weekly	SIROHI	
32.	Site medical visit	8/1/2023	SIROHI	103
33.	Thermal screening of workers at the site	Daily	SIROHI	135
34.	Hand Sanitization activity of workers at the site	Whole Month	SIROHI	07
35.	Mask Distribution	04/02/24	SIROHI	70
36.	Office & Labor Camp Disinfection Activity	04/02/24	SIROHI	04
37.	COVID-19 Awareness & Precautions Training for workmen and staff	10/02/24	SIROHI	65
38.	Display of Signage for Covid-19 Awareness	08/02/24	SIROHI	10
39.	Health Check-up Camp		SIROHI	
40.	Site medical visit	8	SIROHI	92
41.	Thermal screening of workers at the site	Daily	Sirohi	120
42.	Hand Sanitization activity of workers at the site	Whole Month	Sirohi	07
43.	Mask Distribution	3/3/2024	Sirohi	52
44.	Office & Labor Camp Disinfection Activity	04/03/24	Sirohi	03
45.	COVID-19 Awareness & Precautions Training for workmen and staff	5/03/24	Sirohi	50
46.	Display of Signage for Covid-19 Awareness	08/03/2024	Sirohi	8
47.	Health Check-up Camp			
48.	Site medical visit	8	Sirohi	85
Pratapgarh				
1.	Thermal screening of workers at the site	Daily Basis	STP	ALL
2.	Hand Sanitization activity of workers at the site	Daily Basis	STP	ALL
3.	Mask Distribution	13/10/2023	STP	29
4.	Office & Labor Camp Disinfection Activity	Daily Basis	STP	10
5.	COVID-19 Awareness & Precautions Training for workmen and staff	16/10/2023	STP	29
6.	Display of Signage for Covid-19 Awareness	10/04/2023	STP	20
7.	Thermal screening of workers at the site	Daily Basis	STP	ALL
8.	Hand Sanitization activity of workers at the site	Daily Basis	STP	ALL
9.	Mask Distribution	13/11/2023	STP	25
10.	Office & Labor Camp Disinfection Activity	Daily Basis	STP	10
11.	COVID-19 Awareness & Precautions Training for workmen and staff	15/11/2023	STP	25
12.	Thermal screening of workers at the site	Daily Basis	STP	ALL
13.	Hand Sanitization activity of workers at the site	Daily Basis	STP	ALL
14.	Mask Distribution	14/12/2023	STP	20
15.	Office & Labor Camp Disinfection Activity	Daily Basis	STP	10

S. No.	Activities done	Date	Location	No. of Participants
16.	COVID-19 Awareness & Precautions Training for workmen and staff	17/12/2023	STP	13
17.	Thermal screening of workers at the site	Daily	SIROHI	140
18.	Hand Sanitization activity of workers at the site	Whole Month	SIROHI	10
19.	Mask Distribution	daily	SIROHI	90
20.	Office & Labor Camp Disinfection Activity	daily	SIROHI	04
21.	COVID-19 Awareness & Precautions Training for workmen and staff	09/1/24	SIROHI	85
22.	Display of Signage for Covid-19 Awareness	daily	SIROHI	10
23.	Health Check-up Camp	weekly	SIROHI	
24.	Site medical visit	8/1/2023	SIROHI	103
Banswara				
1.	Thermal screening of workers at the site	Regular at site	All Site	10-15
2.	Mask Distribution	Twice per month	All Site	All worker
3.	COVID-19 Awareness & Precautions Training for workmen and staff	18-10-2023	Madar colony	10
4.	Thermal screening of workers at the site	Regular at site	All Site	5 -10
5.	Thermal screening of workers at the site	Regular at site	All Site	8 -10
6.	Mask Distribution	Twice per month	All Site	All worker
Sardarshahar				
1.	Thermal screening of workers at the site	All Day	Sardarshahar	303
2.	Hand Sanitization activity of workers at the site	All Day	Sardarshahar	303
3.	Mask Distribution	AS Required	Sardarshahar	900
4.	Office & Labor Camp Disinfection Activity	10 days in month	Sardarshahar	01
5.	COVID-19 Awareness & Precautions Training for workmen and staff	AS Required	Sardarshahar	303
6.	Display of Signage for Covid-19 Awareness	AS Required	Sardarshahar	303
7.	Health Check-up Camp	08 times in month	Sardarshahar	303
8.	Site medical visit	08 times in month	Sardarshahar	06
Ratangarh				
1.	Thermal screening of workers at the site	04/10/2023	Zone-1,3,2,4,5	85
2.	Hand Sanitization activity of workers at the site	04/10/2023	Zone-1,3,2,4,5	85
3.	Mask Distribution	12/10/2023	Zone-1,2,3,4	15
4.	Office & Labor Camp Disinfection Activity	17/10/2023	Office & Labour Camp	2
5.	COVID-19 Awareness & Precautions Training for workmen and staff	18/10/2023	Zone-1,2,3,4,5	30
6.	Display of Signage for Covid-19 Awareness	24/10/2023	Zone-1,2,4,5	4
7.	Health Check-up Camp	18/10/2023	STP 6.1 MLD	50
8.	Site medical visit	25/10/2023	STP3,8,6.1 And Site	50
9.	Thermal screening of workers at the site	06/11/2023	STP 6.1 MLD,STP 3.8 MLD And Site	65
10.	Hand Sanitization activity of workers at the site	06/11/2023	STP 6.1 MLD,STP 3.8 MLD And Site	65
11.	Mask Distribution	10/11/2023	Workmen Camp	5
12.	Office & Labor Camp Disinfection Activity	15/11/2023	Office & Labour Camp	2
13.	COVID-19 Awareness & Precautions Training for workmen and staff	21/11/2023	Zone-2,4,5	20
14.	Display of Signage for Covid-19 Awareness	21/11/2023	Zone-2,4,5	4
15.	Health Check-up Camp	27/11/2023	STP 6.1 MLD	20
16.	Site medical visit	27/11/2023	STP 6.1 MLD And Site	30
17.	Thermal screening of workers at the site	08/12/2023	STP 6.1 MLD,STP 3.8 MLD And Site	90

S. No.	Activities done	Date	Location	No. of Participants
18.	Hand Sanitization activity of workers at the site	08/12/2023	STP 6.1 MLD,STP 3.8 MLD And Site	90
19.	Mask Distribution	08/12/2023	Workmen Camp	10
20.	Office & Labor Camp Disinfection Activity	16/12/2023	Office & Labour Camp	4
21.	COVID-19 Awareness & Precautions Training for workmen and staff	20/12/2023	Zone-1,2,3,4,5	30
22.	Display of Signage for Covid-19 Awareness	20/12/2023	Zone-1,2,3,4,5	5
23.	Health Check-up Camp	25/12/2023	STP 6.1 MLD	25
24.	Site medical visit	25/12/2023	STP 6.1 MLD And Site	45
25.	Thermal screening of workers at the site	05/01/2024	STP 6.1 MLD,STP 3.8 MLD And Site	80
26.	Hand Sanitization activity of workers at the site	05/01/2024	STP 6.1 MLD,STP 3.8 MLD And Site	80
27.	Mask Distribution	05/01/2024	Workmen Camp	5
28.	Office & Labor Camp Disinfection Activity	12/01/2024	Office & Labour Camp	4
29.	COVID-19 Awareness & Precautions Training for workmen and staff	18/01/2024	Zone-1,2,3,4,5	25
30.	Display of Signage for Covid-19 Awareness	18/01/2024	Zone-1,2,3,4,5	5
31.	Health Check-up Camp	27/01/2024	STP 6.1 MLD	40
32.	Site medical visit	27/01/2024	STP 6.1 MLD And Site	40
33.	Blood Donation Camp	29/01/2024	Govt hospital Ratangarh	25
34.	Thermal screening of workers at the site	03/02/2024	STP 6.1 MLD,STP 3.8 MLD And Site	65
35.	Hand Sanitization activity of workers at the site	03/02/2024	STP 6.1 MLD,STP 3.8 MLD And Site	65
36.	Mask Distribution	03/02/2024	Workmen Camp	5
37.	Office & Labor Camp Disinfection Activity	15/02/2024	Office & Labour Camp	2
38.	COVID-19 Awareness & Precautions Training for workmen and staff	17/02/2024	Zone-1,2,3,4,5	20
39.	Display of Signage for Covid-19 Awareness	17/02/2024	Zone-1,2,3,4,5	5
40.	Health Check-up Camp	23/02/2024	STP 6.1 MLD	30
41.	Site medical visit	23/02/2024	STP 6.1 MLD And Site	30
42.	Thermal screening of workers at the site	06/03/2024	STP 6.1 MLD,STP 3.8 MLD And Site	55
43.	Hand Sanitization activity of workers at the site	06/03/2024	STP 6.1 MLD,STP 3.8 MLD And Site	55
44.	Mask Distribution	06/03/2024	Store	10
45.	Office & Labor Camp Disinfection Activity	12/03/2024	Office & Labour Camp	2
46.	COVID-19 Awareness & Precautions Training for workmen and staff	13/03/2024	Zone-1,2,3,4,5	15
47.	Display of Signage for Covid-19 Awareness	13/03/2024	Zone-1,2,3,4,5	5
48.	Health Check-up Camp	30/03/2024	STP 6.1 MLD	40
49.	Site medical visit	30/03/2024	STP 6.1 MLD And Site	40
Fatehpur				
1.	Thermal screening of workers at the site	09/10/2023	Zone-WC,1,2,	35
2.	Hand Sanitization activity of workers at the site	09/10/2023	Zone-STP,1,2	35
3.	Mask Distribution	12/10/2023	Zone-1,2,	10
4.	Office & Labor Camp Disinfection Activity	Weekly	Office & Labour Camp	2
5.	COVID-19 Awareness & Precautions Training for workmen and staff	20/10/2023	zone-1,2,	30
6.	Display of Signage for Covid-19 Awareness	20/10/2023	Zone-Office, wc,S1,2,	4

S. No.	Activities done	Date	Location	No. of Participants
7.	Health Check-up Camp	Weekly	STP	20
8.	Site medical visit	Weekly	STP And Site	20
9.	Thermal screening of workers at the site	07/11/2023	Zone-WC, 1,2,	10
10.	Hand Sanitization activity of workers at the site	07/11/2023	Zone-STP, 1.2	10
11.	Mask Distribution	15/11/2023	Zone-1,2,	05
12.	Office & Labor Camp Disinfection Activity	Weekly	Office & Labour Camp	2
13.	COVID-19 Awareness & Precautions Training for workmen and staff	21/11/2023	zone-1,2,	20
14.	Display of Signage for Covid-19 Awareness	21/11/2023	Zone-Office, wc,S1,2,	4
15.	Health Check-up Camp	Weekly	STP	20
16.	Site medical visit	Weekly	STP And Site	20
17.	Thermal screening of workers at the site	11/01/2024	Zone-WC, 1,2,	10
18.	Hand Sanitization activity of workers at the site	11/01/2024	Zone-STP, 1.2	10
19.	Mask Distribution	11/01/2024	Zone-1,2,	0
20.	Office & Labor Camp Disinfection Activity	Weekly	Office & Labour Camp	2
21.	COVID-19 Awareness & Precautions Training for workmen and staff	20/01/2024	zone-1,2,	20
22.	Display of Signage for Covid-19 Awareness	20/01/2024	Zone-Office, wc,S1,2,	4
23.	Health Check-up Camp	Weekly	STP	12
24.	Site medical visit	Weekly	STP And Site	12
25.	Office & Labor Camp Disinfection Activity	Weekly	Office & Labour Camp	2
26.	COVID-19 Awareness & Precautions Training for workmen and staff	20/01/2024	zone-1,2,	10
27.	Display of Signage for Covid-19 Awareness	20/01/2024	Zone-Office, wc,S1,2,	4
28.	Health Check-up Camp	Weekly	STP	5
29.	Site medical visit	Weekly	STP And Site	5
Laxmangarh				
1.	Thermal screening of workers at the site	12/10/2023	AEN Campus, WC, Zone-1,2,3	10
2.	Hand Sanitization activity of workers at the site	12/10/2023	AEN Campus, WC, Zone-1,2,3	10
3.	Mask Distribution	12/10/2023	AEN Campus, WC, Zone-1,2,3	05
4.	Office & Labor Camp Disinfection Activity	Weekly	Office, Labour Camp	2
5.	COVID-19 Awareness & Precautions Training for workmen and staff	18/10/2023	Zone-1,2,3 Zone	10
6.	Display of Signage for Covid-19 Awareness	18/10/2023	Zone-1,2,4,5	4
7.	Health Check-up Camp	Weekly	AEN Campus, WC, Zone-1,2,3	05
8.	Site medical visit	Weekly	Labour Camp	05
Mandawa				
1.	Thermal Screening at site On Daily Basis	On Daily Basis	All locations	N/A
2.	Sanitization activity at site On Daily Basis	On Daily Basis	All locations	N/A
Khetri				
1.	Thermal screening at the site on a daily basis	On Daily Basis	All locations	All Staffs
2.	Sanitization activity at the site on a daily basis	On Daily Basis	All locations	All Staffs
3.	Thermal screening at the site on a daily basis	On Daily Basis	All locations	All Staffs
4.	Mask & Sanitizer	04-10-2023	Telav mohalla	5
5.	Mask & Safety Glove	17-10-2023	Ward No. 10	6
6.	Sanitizer & Body temperature	21-10-2023	Near new Jail	7

S. No.	Activities done	Date	Location	No. of Participants
7.	Mask & Safety Glove	30-10-2023	STP	6
8.	Mask & Sanitizer	02-11-2023	Telav mohalla	6
9.	Mask & Safety Glove	17-11-2023	Ward No. 10	6
10.	Sanitizer & Body temperature	21-11-2023	Ward No-18	7
11.	Mask & Safety Glove	24-11-2023	STP	6
12.	Mask & Sanitizer	04-12-2023	Ward 18	5
13.	Mask & Safety Glove	16-12-2023	Ward No. 04	6
14.	Sanitizer & Body temperature	21-12-2023	Ward 23	7
15.	Mask & Safety Glove	28-12-2023	Ward 24	6
16.	Mask & Sanitizer	03-01-2024	Ward 03	7
17.	Mask & Safety Glove	09-01-2024	Ward No. 04	6
18.	Sanitizer & Body temperature	17-01-2024	Ward 13	7
19.	Mask & Safety Glove	27-01-2024	Ward 24	8
20.	Mask & Sanitizer	04-02-2024	Ward 04	5
21.	Mask & Safety Glove	08-02-2024	Ward No11.	6
22.	Sanitizer & Body temperature	18-02-2024	Ward 13	9
23.	Mask & Safety Glove	28-02-2024	Ward 23	8
24.	Mask & Sanitizer	04-03-2024	Ward 02	5
25.	Mask & Safety Glove	07-03-2024	Ward No22.	6
26.	Sanitizer & Body temperature	13-03-2024	Ward 12	9
27.	Mask & Safety Glove	19-03-2024	STP	8
Kuchaman				
1.	Health Check-up Camp	04.10.2023	Kuchaman	13
2.	Health Check-up Camp	06.10.2023	Kuchaman	17
3.	Health Check-up Camp	07.10.2023	Kuchaman	11
4.	Health Check-up Camp	09.10.2023	Kuchaman	06
5.	Health Check-up Camp	10.10.2023	Kuchaman	44
6.	Health Check-up Camp	12.10.2023	Kuchaman	20
7.	Health Check-up Camp	16.10.2023	Kuchaman	13
8.	Health Check-up Camp	18.10.2023	Kuchaman	12
9.	Health Check-up Camp	21.10.2023	Kuchaman	07
10.	Health Check-up Camp	26.10.2023	Kuchaman	16
11.	Mask Distribution	October 2023	Kuchaman	Maximum
12.	Sanitization for office, workmen camps, guest houses and sites	October 2023	Kuchaman	Maximum
13.	Awareness Training Program for workmen and staff	October 2023	Training centre camp & Office ,Kuchaman	145
14.	Display of Signage for Covid-19 Awareness	October 2023	All site areas	Maximum
15.	Health Check-up Camp	01.11.2023	Kuchaman	04
16.	Health Check-up Camp	06.11.2023	Kuchaman	05
17.	Health Check-up Camp	09.11.2023	Kuchaman	08
18.	Health Check-up Camp	18.11.2023	Kuchaman	07
19.	Health Check-up Camp	20.11.2023	Kuchaman	11
20.	Health Check-up Camp	21.11.2023	Kuchaman	10
21.	Health Check-up Camp	23.11.2023	Kuchaman	11
22.	Health Check-up Camp	24.11.2023	Kuchaman	12
23.	Health Check-up Camp	27.11.2023	Kuchaman	06
24.	Health Check-up Camp	28.11.2023	Kuchaman	12
25.	Mask Distribution	November 2023	Kuchaman	Maximum
26.	Sanitization for office, workmen camps, guest houses and sites	November 2023	Kuchaman	Maximum

S. No.	Activities done	Date	Location	No. of Participants
27.	Awareness Training Program for workmen and staff	November 2023	Training centre camp & Office ,Kuchaman	153
28.	Health Check-up Camp	10.02.2024	Kuchaman	19
29.	Health Check-up Camp	16.02.2024	Kuchaman	16
30.	Health Check-up Camp	17.02.2024	Kuchaman	19
31.	Health Check-up Camp	19.02.2024	Kuchaman	15
32.	Health Check-up Camp	20.02.2024	Kuchaman	27
33.	Health Check-up Camp	21.02.2024	Kuchaman	18
34.	Health Check-up Camp	13.02.2024	Kuchaman	13
35.	Health Check-up Camp	26.02.2024	Kuchaman	15
36.	Health Check-up Camp	27.02.2024	Kuchaman	16
37.	Health Check-up Camp	28.02.2024	Kuchaman	10
38.	Awareness Training Program for workmen and staff	February 2024	Training centre camp & Office ,Kuchaman	159
39.	Health Check-up Camp	05.03.2024	Kuchaman	17
40.	Health Check-up Camp	07.03.2024	Kuchaman	14
41.	Health Check-up Camp	08.03.2024	Kuchaman	16
42.	Health Check-up Camp	11.03.2024	Kuchaman	20
43.	Health Check-up Camp	12.03.2024	Kuchaman	15
44.	Health Check-up Camp	16.03.2024	Kuchaman	13
45.	Health Check-up Camp	18.03.2024	Kuchaman	16
46.	Health Check-up Camp	19.03.2024	Kuchaman	14
47.	Health Check-up Camp	28.03.2024	Kuchaman	15
48.	Health Check-up Camp	29.03.2024	Kuchaman	16
49.	Awareness Training Program for workmen and staff	March 2024	Training center camp & Office ,Kuchaman	170

**Photographs showing COVID-19 (Awareness, Prevention and Control)
Compliance by Towns during October 2023 to March 2024**

	
Thermal Screening of workers at site (Abu Road)	Disinfection Activity at work site (Abu Road)
	
Labor Meeting about Awareness & Safety of covid-19 (Sirohi)	Medical Health Checkup of site workers (Sirohi)
	
Thermal Screening of workers at site (Banswara)	Hand Sanitization activity to workers at site (Banswara)
	
Thermal Screening and Hand Sanitization activity at site Ratangarh	Medical Health Check-up of site workers (Ratangarh)



Disinfection Activity at Site (Ratangarh)



Labor Meeting about Awareness & Safety of covid-19 (Ratangarh)



Hand Sanitization of workers at Site (Kuchaman)



Disinfection Activity at site office (Kuchaman)



Medical Health Check-up of workers at site (Kuchaman)



Labor Meeting about Awareness & Safety of covid-19 (Kuchaman)



Thermal Screening and Hand Sanitization activity at site On Daily Basis (Khetri)



Thermal Screening and Hand Sanitization activity at site On Daily Basis (Mandawa)

	
Labor Meeting about Awareness & Safety of covid-19 (Pratapgarh)	Thermal Screening and Medical Health Check-up of workers at site (Sardarshahar)
 	
Thermal Screening & Hand Sanitization activity at site Fatehpur	Medical Health Checkup of site workers (Fatehpur)
	
Disinfection Activity at Site (Fatehpur)	Labor Meeting about Awareness & Safety of covid-19 (Fatehpur)

**Photographs showing COVID-19 (Awareness, Prevention and Control)
Compliance by FSTP Towns during October 2023 to March 2024**

	
Covide-19 Awareness training to workers at Site (Deeg)	Face mask Distribution to workers at site (Deeg)
	
Covide-19 Awareness training to workers at Site (Dausa)	Hand Sanitization activity at site On Daily Basis (Dausa)
	
Thermal Screening and Hand Sanitization activity of workers at site On Daily Basis (Neem Ka Thana)	Hand Sanitization activity of workers at site On Daily Basis (Bandi Kui)
	
Thermal Screening activity of workers at site On Daily Basis (Jobner)	Hand Sanitization activity of workers at site On Daily Basis (Jobner)

	
Face Mask Distribution to workers at Site (Bari)	Hand Sanitization activity at site (Bari)
	
Covid-19 Awareness training to workers at Site (Tijara)	Hand Sanitization activity to workers at site Basis (Tijara)
	
Labor Meeting about Awareness & Safety of covid-19 (Shahpura – Bhilwara)	Hand Sanitization activity at site On Daily Basis (Shahpura – Bhilwara)
	
Labor Meeting about Awareness & Safety of covid-19 (Bhinder-Kanode)	Face mask distribution to workers at Site (Bhinder-Kanode)

Appendix 11: ENVIRONMENTAL MONITORING RESULTS DURING OCTOBER 2023 TO MARCH 2024 IN RSTDSP

Ambient Air Quality Standards (National and IFC Standards)					
Standards	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (µg/m ³)
National Ambient Air Quality Standards	60 (Annual) 100 (24-hr)	40 (Annual) 60 (24-hr)	50 (Annual) 80 (24-hr)	40 (Annual) 80 (24-hr)	2,000 (8-hr) 4,000 (1-hr)
IFC Standards Applicable as Per ADB SPS (µg/m ³)	20 (Annual) 50 (24-hr)	10 (Annual) 25 (24-hr)	50 (Annual) 20 (24-hr) 500 (10-min)	40 (Annual) 80 (24-hr) 200 (1-hr)	2,000 (8-hr) 4,000 (1-hr) 100,000 (15-min)

Air Monitoring Results – 4th Quarter (October to December) of 2023

S.No.	Package / Town / Monitoring Location	Monitoring date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (µg/m ³)
1.	RSTDIP/KTR/03						
	Khetri Town						
	STP Construction Site	20.12.2023 to	93.35	44.27	8.28	20.12	340
	Construction Site JEn Campus		90.43	41.43	8.22	20.37	320
	Hanuman Ghadi Market Area		88.75	42.70	8.57	19.97	340
	Construction Site Near Polo Ground	22.12.2023	90.21	42.25	8.05	20.75	340
	Near Kabila Mohalla		89.93	41.59	8.64	18.79	320
2.	RSTDIP/PRT/01						
	Pratapgarh Town						
	Forest Colony	31.10.2023 to	72.2	29.5	7.8	26.4	650.0
	Gupt Ganga Hanuman Mandir		74.6	30.3	8.3	26.8	680.0
	Zila Prishad Road, S.P. Slide		79.2	34.2	8.1	24.2	700.0
	Velocity colony	01.11.2023	76.2	32.6	8.3	25.4	640.0
	3	RSTDIP/SHR-ABR/01					
Abu Road Town							
Manpur Workmen Camp		04.11.2023 To	67.6	31.1	10.24	11.47	620
Manpur STP			70.2	30.4	9.12	14.45	610.0
Near STP & WTP Santpur			70.3	29.4	8.78	12.54	680.0
Luniapura CWR		06.11.2023	70.5	31.5	9.5	13.10	650.0
4		RSTDIP/KMN/02					
	Kuchaman Town						
	STP Near Bus Stand	12.10.2023 to 16.10.2023	79.0	38.0	9.2	24.0	480.0
	L&T Labor Colony		67.0	41.0	7.0	16.0	430.0
	600 KL, Near Shiv Mandir		84.0	50.0	8.2	20.0	400.0
	RUIDP Office, Near SK Academy		70.0	42.0	7.4	18.0	520.0
	SPS Site 1, Near Khan Mohalla		59.0	32.0	7.8	26.0	470.0
	Networking Site Regar Mohalla		74.0	38.0	7.0	22.0	340.0
	Networking Site Khariya Road		66.0	37.0	6.8	16.0	380.0
5	RSTDIP/SHR-ABR/01						
	Sirohi Town						
	Angore WTP	29.09.2023 to 01.10.2023	72.7	30.8	12.4	20.4	580.0
	Near Workmen Camp/STP 5.0 MLD		76.3	34.8	10.5	19.7	610.0
	Kalika Ji Pump House		60.3	27.9	9.4	16.8	580.0
	CRMC Building		65.6	24.9	8.4	15.4	570.0
6	RSTDIP/MDW/03						
	Mandawa Town						
	SPS 1 (PHED Campus) Beside SPS Site		73.26	35.16	9.85	18.12	860

	STP Site 01	13.12.2023	76.23	32.45	11.24	19.84	870
	CWR Site 01	to	77.95	38.95	11.02	22.62	920
	Pipe Laying Site (Ward No. 16)	15.12.2023	83.26	36.34	10.40	20.15	810
7	RSTDIP/LDN-DID-MKN/01						
	Makrana Town						
	STP 7.7 MLD Site Calananda	30.12.2023	75.5	45.8	7.2	18.0	670
	SPS 2.3 MLD Site Jhalatalav	to	68.7	41.7	9.2	16.0	530
	SPS 2.1 MLD Site Matavar	31.12.2023	88.4	51.2	9.8	23.0	500
	Pipe laying Site Balaji Colony		65.5	37.5	8.4	24.0	470
8	RSTDIP/SRD/01						
	Sardarshahar Town						
	STP – 1 (2.3 MLD) South Campus	13.10.2023	69.32	28.69	9.68	16.34	720
	STP – 2 (3.4 MLD) North Campus	to	72.21	32.34	12.56	19.37	700
	PHED Campus (CWR 2400 KL)	15.10.2023	75.34	29.56	11.23	21.34	700
	Pipe Laying Zone (DMA 4AKuber Cottage)		69.85	31.58	9.65	17.37	670
	1.6 MLD STP (Pre Construction Activity)		68.36	29.37	11.78	20.58	690
	SPS 2.3 MLD		69.58	30.34	11.04	17.65	680
9	RSTDIP/LDN-DID-MKN/01						
	Didwana Town						
	STP 3 MLD Site	29.12.2023	70.8	39.1	7.2	32.0	420
	Pipe Laying Site	to	61.4	33.3	8.4	28.0	400
	SPS 1.3 MLD	30.12.2023	78.3	50.0	8.0	22.0	560
	SPS 1.7 MLD Site		63.8	36.4	7.6	24.0	640
10	RSTDIP/LDN-DID-MKN/01						
	Ladnu Town						
	Pipe Laying Site Dayanand Colony	28.12.2023	59.7	38.0	9.6	28.0	520
	Pipe Laying Site Janta Colony	to	64.3	39.1	8.2	24.0	480
	STP- 1, 5.5 MLD Site, Asota Village	29.12.2023	83.2	45.8	8.0	22.0	490.0
	STP-2, 2.4 MLD Site, Chipoli		66.6	41.7	7.6	26.0	500
11	RSTDIP/BNS/04						
	Banswara Town						
	STP Site	05.12.2023	57.1	30.2	15.3	20.6	365
	WTP AEn Campus	to	60.1	34.2	13.3	18.6	351
	SPS @ Nathelav Pond	08.12.2023	52.1	25.5	12.1	16.3	317
	WTP Kagdi Site		54.2	27.2	15.2	17.8	272
	Pratpgarh Road		53.4	23.7	18.1	22.3	355
	Custom Char Rasta		77.3	38.1	25.4	29.6	562
12	RSTDIP/RTG-FTP-LXG/01						
	Ratangarh Town						
	STP 3.8 MLD Ratangarh	21.09.2023	67.85	24.93	8.23	17.17	570
	STP 6.1 MLD Ratangarh	to	67.08	26.38	8.13	16.76	540
	SPS 3.8 MLD	23.09.2023	64.09	27.0	7.71	15.0	520
	SPS 4.6 MLD		66.16	23.91	7.82	13.86	540
	Workman Camp Ratangarh		60.94	21.58	7.60	13.49	580
	Guest house Ratangarh		62.38	24.15	7.13	12.15	560
13	RSTDIP / RTG-FTP-LXG / 01						
	Fatehpur Town						
	At Nawalgarh Railway Puliya	21.09.2023	65.49	23.45	7.87	13.86	530
	Naribari Road 4.3 MLD STP	to	63.30	23.40	8.18	14.33	560
	Workmen Camp Bikaner Puliya	29.09.2023	68.51	22.08	8.49	13.80	570
	Behind Dholi Sati Temple (3.5 MLD)		66.41	21.79	7.23	12.90	600
	0.6 MLD SPS Fatehpur		68.25	23.17	7.26	14.45	550

Ambient air quality monitoring Results – FSTP Towns

S.No.	Package / Town / Monitoring Location	Monitoring date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (µg/m ³)
RSTDSP/FSTP-9 Towns/03							
1	Bari Town						
	FSTP Site - Bari	15.12.2023 to 16.12.2023	69.58	27.13	9.19	14.06	590.0
2	Bhawani Mandi Town						
	FSTP Site – Bhawani Mandi	12.12.2023 to 13.12.2023	66.05	25.99	8.41	12.94	520.0
3	Bhinder – Kanode Town						
	FSTP Site	15.12.2023 to 16.12.2023	76.09	33.61	8.67	17.37	770.0
4	Dausa Town						
	FSTP Site	14.12.2023 to 15.12.2023	65.10	26.51	8.51	11.64	570.0
5	Deeg Town						
	FSTP Site	16.12.2023 to 17.12.2023	67.24	26.46	8.49	13.94	660.0
6	Gangapur (Bhilwara) Town						
	FSTP Site	16.12.2023 to 17.12.2023	78.44	34.14	7.66	15.10	700.0
7	Shahpura (Bhilwara) Town						
	FSTP Site	14.12.2023 to 15.12.2023	74.14	33.29	8.31	16.26	740.0
8	Tijara Town						
	FSTP Site	17.12.2023 to 18.12.2023	63.29	23.69	8.36	15.24	670.0
RSTDSP/NKT-SHR-BAN-JOB/01							
9	Bandikui Town						
	FSTP Site - Bandikui	22.12.2023 to 23.12.2023	80.9	45.6	10.3	19.2	510
10	Jobner Town						
	FSTP Site – Jobner	23.12.2023 to 24.12.2023	71.6	43.8	15.4	11.6	470
11	Neem Ka Thana Town						
	FSTP Site - Neem Ka Thana	24.12.2023 to 25.12.2023	79.2	50.1	17.3	13.0	550

Noise Monitoring Results –

Noise Standard (National)	Type of area	Noise Level Leq (dB(A))	
		Day time	Night time
Applicable Per ADB SPS (IFC's limits for Noise Level)	Industrial Area	75	70
	Commercial/ Mixed Area	65	55
	Residential/ Rural	55	45
	Sensitive area	50	40
	Residential/ institutional/ educational	55 dB(A)	45 dB(A)

Noise Monitoring results – 4th Quarter (October to December) of 2023

S.No.	Package / Town / Monitoring Location	Monitoring date	Noise Level Leq (dB(A))	
			Day time	Night time
1	RSTDIP/ KTR/03			
	Khetri Town			
	STP Construction Site	20.12.2023 to 22.12.2023	57.5	48.3
	Construction Site JEn Campus		56.4	47.2
	Hanuman Ghadi Market Area		56.8	46.4
	Construction Site Near Polo Ground		56.3	46.8
	Near Kabila Mohalla		56.0	45.4
2	RSTDIP/PRT/01			
	Pratapgarh Town			
	Forest Colony	31.10.2023 to 01.11.2023	57.2	44.0
	Gupt Ganga Hanuman Mandir		61.5	46.3
	Zila Prishad Road, S.P. Slide		58.0	43.7
	Velocity colony		59.3	42.0
3	RSTDIP/SHR-ABR/01			
	Abu Road Town			
	Manpur Workmen Camp	04.11.2023 To 06.11.2023	52.8	42.3
	Manpur STP		55.4	41.6
	Near STP & WTP Santpur		57.3	42.8
	Luniapura CWR		58.4	46.1
4	RSTDIP/KMN/02			
	Kuchaman Town			
	STP Site Near Bus Stand	12.10.2023 to 16.10.2023	59.1	41.5
	L&T Labor Colony		53.5	39.2
	600 KL, Near Shiv Mandir		62.3	43.1
	RUIDP Office, Near SK Academy		55.0	40.5
	SPS Site 1, Near Khan Mohalla		50.7	38.3
	Networking Site Regar Mohalla		52.9	37.6
	Networking Site Khariya Road		54.6	39.5
5	RSTDIP/SHR-ABR/01			
	Sirohi Town			
	Angore WTP	29.09.2023 to 01.10.2023	59.4	46.8
	Near Workmen Camp/STP 5.0 MLD		60.8	47.1
	Kalika Ji Pump House		62.4	47.5
	CRMC Building		53.8	41.2
6	RSTDIP/MDW/03			
	Mandawa Town			
	SPS 1 (PHED Campus) Beside SPS Site	13.12.2023 to 15.12.2023	51.6	41.5
	STP Site 01		58.3	45.2
	CWR Site 01		56.7	45.2
	Pipe Laying Site (Ward No. 16)		53.1	42.6

S.No.	Package / Town / Monitoring Location	Monitoring date	Noise Level Leq (dB(A))	
			Day time	Night time
7	RSTDIP/LDN-DID-MKN/01			
	Makrana Town			
	STP 7.7 MLD Site Calananda	30.12.2023 to 31.12.2023	56.7	39.0
	SPS 2.3 MLD Site Jhalatalav		55.3	40.8
	SPS 2.1 MLD Site Matavar		53.7	39.5
	Pipe laying Site Balaji Colony		54.2	37.7
8	RSTDIP/SRD/01			
	Sardarshahar Town			
	STP – 1 (2.3 MLD) South Campus	13.10.2023 to 15.10.2023	52.20	42.62
	STP – 2 (3.4 MLD) North Campus		51.54	41.84
	PHED Campus (CWR 2400 KL)		53.45	43.65
	Pipe Laying Zone (DMA 4AKuber Cottage)		54.20	42.78
	1.6 MLD STP		54.04	4.10
	SPS 2.3 MLD		55.58	44.30
9	RSTDIP/LDN-DID-MKN/01			
	Didwana Town			
	STP 3 MLD Site, Mela Medan	29.12.2023 to 30.12.2023	56.3	39.4
	Pipe Laying Site		53.9	39.2
	SPS 1.3 MLD Choti Devi School		60.8	40.5
	SPS 1.7 MLD Site, Salt Road		50.3	38.6
10	RSTDIP/LDN-DID-MKN/01			
	Ladnu Town			
	Pipe Laying Site Dayanand Colony	28.12.2023 to 29.12.2023	51.4	36.7
	Pipe Laying Site Janta Colony		52.6	37.9
	STP- 1, 5.5 MLD Site, Asota Village		58.8	40.9
	STP-2, 2.4 MLD Site, Chipoli		55.3	39.9
11	RSTDIP/BNS/04			
	Banswara Town			
	STP Site	05.12.2023 to 07.12.2023	63	56
	WTP AEn Campus		70	53
	SPS @ Nathelav Pond		65	50
	WTP Kagdi Site		62	49
	Pratpgarh Road		58	48
	Custom Char Rasta		73	66
12	RSTDIP / RTG-FTP-LXG / 01			
	Ratangarh Town			
	STP 3.8 MLD Ratangarh	21.09.2023 to 23.09.2023	54.20	42.40
	STP 6.1 MLD Ratangarh		61.50	48.36
	SPS 3.8 MLD		64.45	49.10
	SPS 4.6 MLD		62.10	51.40
	Workman Camp Ratangarh		53.60	42.36
	RJ Guest house Ratangarh		53.40	41.49
13	RSTDIP / RTG-FTP-LXG / 01			
	Fatehpur Town			
	At Nawalgarh Railway Puliya	21.09.2023 to 23.09.2023	63.20	53.10
	Naribari Road 4.3 MLD STP		62.70	54.20
	Workmen Camp Bikaner Puliya		68.50	51.60
	Behind Dholi Sati Temple (3.5 MLD)		65.10	48.36
	0.6 MLD SPS Fatehpur		64.50	52.36

Ambient Noise Level Monitoring Results – FSTP Towns

S.No.	Package / Town / Monitoring Location	Monitoring date	Noise Level Leq (dB(A))	
			Day time	Night time
RSTDSP/FSTP-9 Towns/03				
1	Bari Town			
	FSTP Site	15.12.2023 to 16.12.2023	62.80	48.10
2	Bhawani Mandi Town			
	FSTP Site	12.12.2023 to 13.12.2023	68.10	45.26
3	Bhinder – Kanode Town			
	FSTP Site	15.12.2023 to 16.12.2023	60.10	42.40
4	Dausa Town			
	FSTP Site	14.12.2023 to 15.12.2023	60.40	42.10
5	Deeg Town			
	FSTP Site	16.12.2023 to 17.12.2023	62.35	44.12
6	Gangapur – Bhilwara Town			
	FSTP Site	16.12.2023 to 17.12.2023	63.10	46.20
7	Shahpura – Bhilwara Town			
	FSTP Site	14.12.2023 to 15.12.2023	64.40	52.60
8	Tijara Town			
	FSTP Site	17.12.2023 to 18.12.2023	62.41	54.30
RSTDSP/NKT-SHR-BAN-JOB/01				
9	Bandikui Town			
	FSTP Site - Bandikui	22.12.2023 to 23.12.2023	62.0	47.0
10	Jobner Town			
	FSTP Site – Jobner	23.12.2023 to 24.12.2023	60.0	49.0
11	Neem Ka Thana Town			
	FSTP Site - Neem Ka Thana	24.12.2023 to 25.12.2023	62.0	49.0

Ground Water Quality Monitoring Results**Town: Fatehpur**

S. No	Parameters	Units	Fatehpur Town (RSTDSP/ RTG-FTP-LXG/01)				
			Date of Sampling: 23.09.2023				
			At Nawalgarh Railway Puliya	Naribari Road 4.3 MLD STP	Workmen Camp Bikaner Puliya	Behind Dholi Sati Temple (3.5 MLD)	0.6 MLD SPS
1	pH @ 25°C	-	7.11	7.31	7.85	7.65	7.85
2	Turbidity	NTU	BDL (< 1.0)	BDL (< 1.0)	BDL (< 1.0)	BDL (< 1.0)	BDL (< 1.0)
3	Calcium (as Ca)	mg/l	29.24	95.03	84.07	93.21	80.41
4	Chlorides as Cl	mg/l	49.77	93.80	116.77	97.62	95.71
5	Electrical Conductivity	µS/cm	395.0	692.0	960.10	750.0	620.0
6	Fluorides (as F)	mg/l	0.29	0.33	0.39	0.22	0.28
7	Magnesium (as Mg)	mg/l	1.10	4.43	2.04	5.54	2.22
8	Nitrate as NO ₃	mg/l	1.45	3.35	4.23	3.56	3.71
9	Sulphate as SO ₄	mg/l	27.65	59.68	42.04	53.88	89.09
10	Total Alkalinity	mg/l	93.38	117.74	406.0	227.36	186.76
11	Total Dissolved solids	mg/l	266.0	441.60	606.0	537.30	448.40
12	Total Hardness as CaCO ₃	mg/l	77.52	255.36	218.88	255.36	209.76
13	Copper as Cu	mg/l	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)
14	Iron as Fe	mg/l	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)
15	Lead (as Pb)	mg/l	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)
16	Manganese as Mn	mg/l	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)
17	Colour	Hazen	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)
18	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
19	Sodium as Na	mg/l	50.20	45.60	20.50	36.20	20.56
20	Potassium as K	mg/l	4.40	2.93	4.10	4.50	4.30
21	Phosphorous	mg/l	BDL(<0.2)	BDL(<0.2)	BDL(<0.2)	BDL(<0.2)	BDL(<0.2)

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---2
Town: Ratangarh

S.No	Parameters	Units	Ratangarh Town (RSTDSP/ RTG-FTP-LXG/01)		
			Date of Sampling: 22.09.2023		
			Workmen Camp	STP 3.8 MLD	STP 6.1 MLD
1	pH @ 25°C	-	7.65	7.91	7.41
2	Turbidity	NTU	BDL (< 1.0)	BDL (< 1.0)	BDL (< 1.0)
3	Calcium (as Ca)	mg/l	45.69	36.55	53.0
4	Chlorides as Cl	mg/l	59.34	132.08	77.72
5	Electrical Conductivity	µS/cm	395.0	625.20	490.0
6	Fluorides (as F)	mg/l	0.22	0.35	0.36
7	Magnesium (as Mg)	mg/l	2.21	1.11	6.64
8	Nitrate as NO ₃	mg/l	1.90	1.30	1.82
9	Sulphate as SO ₄	mg/l	38.34	30.33	40.16
10	Total Alkalinity	mg/l	85.26	207.06	105.56
11	Total Dissolved solids	mg/l	273.40	402.0	323.0
12	Total Hardness as CaCO ₃	mg/l	123.12	95.76	159.60
13	Sodium as Na	mg/l	45.60	60.20	45.20
14	Potassium as K	mg/l	2.30	1.80	2.10
15	Copper as Cu	mg/l	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)
16	Iron as Fe	mg/l	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)
17	Lead (as Pb)	mg/l	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)
18	Manganese as Mn	mg/l	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)
19	Colour	Hazen	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)
20	Odour	-	Agreeable	Agreeable	Agreeable
21	Phosphorous	mg/l	BDL(<0.2)	BDL(<0.2)	BDL(<0.2)

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---3, Town: Sardarshahar

S.No	Parameters	Units	Sardarshahar Town (RSTDSP/SRD/01)					
			Date of Sampling: 13.10.2023					
			STP – 1 (2.3 MLD) South Campus	STP – 2 (3.4 MLD) North Campus	PHED Campus (CWR 2400 KL)	Pipe Laying Zone (DMA 4AKuber Cottage)	1.6 MLD STP	SPS 2.3 MLD
1	pH	-	7.53	7.78	7.85	7.75	7.60	7.83
2	Total Dissolved solids	mg/l	270.0	1289.0	136.8	710.0	962.0	925.0
3	Alkalinity as CaCO ₃	mg/l	146.65	509.65	85.34	284.0	384.0	388.0
4	Total Hardness as CaCO ₃	mg/l	145.9	407.5	126.8	289.4	332.4	319.6
5	Nitrate as NO ₃	mg/l	10.12	22.12	1.26	11.34	10.32	10.16
6	Chlorides as Cl	mg/l	65.67	326.21	23.65	187.34	285.64	287.37
7	Sulphate as SO ₄	mg/l	41.35	215.84	9.89	106.84	113.12	113.34
8	Fluorides (as F)	mg/l	0.46	0.75	0.67	0.65	0.65	0.64
9	Iron as Fe	mg/l	0.14	0.16	0.09	0.19	0.19	0.25
10	Arsenic (as As)	mg/l	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)
11	Mercury (as Hg)	mg/l	BDL (< 0.0005)	BDL (< 0.0005)	BDL (< 0.0005)	BDL (< 0.0005)	BDL (< 0.0005)	BDL (< 0.0005)
12	Lead (as Pb)	mg/l	BDL (< 0.002)	BDL (< 0.002)	BDL (< 0.002)	BDL (< 0.002)	BDL (< 0.002)	BDL (< 0.002)
13	Cadmium (as Cd)	mg/l	BDL (< 0.002)	0.51	BDL (< 0.002)	BDL (< 0.002)	BDL (< 0.002)	BDL (< 0.002)
14	Copper as Cu	mg/l	BDL (< 0.002)	BDL (< 0.002)	BDL (< 0.002)	BDL (< 0.002)	BDL (< 0.002)	BDL (< 0.002)
15	Zinc as Zn	mg/l	BDL (< 0.01)	BDL (< 0.01)	0.36	0.32	0.45	0.45
16	Manganese as Mn	mg/l	BDL (< 0.01)	BDL (< 0.01)	BDL (< 0.01)	BDL (< 0.01)	BDL (< 0.01)	BDL (< 0.01)
17	Phenolic compounds	mg/l	BDL (< 0.0004)	BDL (< 0.0004)	BDL (< 0.0004)	BDL (< 0.0004)	BDL (< 0.0004)	BDL (< 0.0004)
18	Dissolved Oxygen (DO)	mg/l	5.9	5.9	6.3	6.4	6.4	6.2
19	Phosphate as P	mg/l	BDL (< 0.2)	0.47	0.49	0.32	0.47	0.48
20	Hexavalent Chromium as Cr ⁺⁶)	mg/l	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---4, Town: Sirohi

S. No	Parameters	Units	Sirohi Town (RSTDSP/SHR-ABR/01)			
			Date of Sampling: 29.09.2023			
			WTP 9 MLD at Angore PHED Campus	Near Workmen camp STP 5.0 MLD	Kalika Ji Pump House	CRMC Building
1	pH @ 25°C	-	7.25	7.89	7.56	7.25
2	Conductivity @ 25°C		1925.0	1736.0	1650.0	560.0
3	Total Dissolved solids	mg/l	1251.3	1128.4	1072.50	364.0
4	Alkalinity	mg/l	203.84	303.68	220.48	95.68
5	Total Hardness as CaCO ₃	mg/l	227.36	245.92	236.64	134.56
6	Nitrate as NO ₃	mg/l	12.40	15.36	13.89	2.36
7	Chlorides as Cl	mg/l	409.66	449.86	415.40	47.86
8	Sulphate as SO ₄	mg/l	110.25	168.96	135.87	8.96
9	Calcium (as Ca)	mg/l	72.53	78.11	70.67	40.91
10	Magnesium (as Mg)	mg/l	11.28	12.40	14.66	7.89
11	Fluorides (as F)	mg/l	0.72	0.80	0.68	0.32
12	Iron as Fe	mg/l	0.17	0.12	0.16	0.14
13	Arsenic (as As)	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
14	Mercury (as Hg)	mg/l	BDL(<0.0005)	BDL(<0.0005)	BDL(<0.0005)	BDL(<0.0005)
15	Lead (as Pb)	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
16	Cadmium (as Cd)	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
17	Copper as Cu	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
18	Total Chromium as Cr)	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
19	Zinc as Zn	mg/l	0.28	0.24	0.31	0.29
20	Selenium (as Se)	mg/l	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)
21	Turbidity	NTU	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)
22	Aluminium (as Al)	mg/l	BDL(<0.005)	BDL(<0.005)	BDL(<0.005)	BDL(<0.005)
23	Manganese as Mn	mg/l	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
24	Nickel as Ni	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
25	Residual free chlorine	mg/l	BDL(<0.15)	BDL(<0.15)	BDL(<0.15)	BDL(<0.15)
26	Cyanide (as CN)	mg/l	BDL(<0.02)	BDL(<0.02)	BDL(<0.02)	BDL(<0.02)
27	Colour	Hazen	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)
28	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable
29	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable
30	Boron (as B)	mg/l	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---5,
Town: Kuchaman

S. No	Parameters	Units	Kuchaman Town (RSTDSP/KMN/02)		
			Date of Sampling: 13.10.2023		
			Bore well at STP Site Near New Bus Stand	RUIDP Office, Near Academy SK	Bore well at Labor Colony
1	pH @ 25°C	-	7.95	8.11	7.45
2	Arsenic as As	mg/l	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)
3	Cadmium (as Cd)	mg/l	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)
4	Chlorides as Cl	mg/l	230.0	420.0	940.0
5	Copper as Cu	mg/l	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)
6	Fluorides (as F)	mg/l	0.48	1.4	0.25
7	Iron as Fe	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
8	Lead (as Pb)	mg/l	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)
9	Manganese as Mn	mg/l	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)
10	Nitrate as NO ₃	mg/l	11.0	6.4	5.2
11	Phenolic Compounds as C ₆ H ₅ OH	mg/l	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)
12	Sulphate as SO ₄	mg/l	23.0	58.0	27.0
13	Total Hardness as CaCO ₃	mg/l	216.0	80.0	940.0
14	Zinc as Zn	mg/l	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)
15	Total Dissolved solids	mg/l	930.0	1586.0	2034.0
16	Dissolved Oxygen (DO)	mg/l	5.2	5.1	5.5
17	Phosphate as PO ₄	mg/l	0.36	0.39	BDL (< 0.03)
18	Total Alkalinity	mg/l	304.0	548.0	0.34
19	Mercury (as Hg)	mg/l	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)
20	Hexavalent Chromium as Cr ⁺⁶)	mg/l	BDL (< 0.01)	BDL (< 0.01)	BDL (< 0.01)

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---6,
Town: Pratapgarh

S.No	Parameters	Units	Pratapgarh Town (RSTDSP/PRT/01)			
			Date of Sampling: 31.10.2023 & 01.11.2023			
			Zila Prishad Road, S.P. Slide	Gupt Ganga Hanuman Mandir	Forest Colony	Velocity colony
1	pH	-	7.04	7.48	7.28	7.18
2	Total Dissolved solids	mg/l	614.6	462.50	484.50	614.60
3	Total Hardness as CaCO ₃	mg/l	291.80	110.68	120.74	291.80
4	Alkalinity as CaCO ₃	mg/l	235.62	157.08	168.30	235.62
5	Nitrate as NO ₃	mg/l	21.82	14.82	15.82	21.82
6	Chlorides as Cl	mg/l	68.86	123.95	128.54	68.86
7	Sulphate as SO ₄	mg/l	27.54	49.58	51.42	27.54
8	Iron as Fe	mg/l	0.06	0.04	0.04	0.06
9	Fluorides (as F)	mg/l	0.13	0.10	0.09	0.13
10	Zinc as Zn	mg/l	B.D.L.	B.D.L.	B.D.L.	B.D.L.
11	Copper as Cu	mg/l	B.D.L.	B.D.L.	B.D.L.	B.D.L.
12	Manganese as Mn	mg/l	B.D.L.	B.D.L.	B.D.L.	B.D.L.
13	Mercury (as Hg)	mg/l	B.D.L.	B.D.L.	B.D.L.	B.D.L.
14	Cadmium (as Cd)	mg/l	B.D.L.	B.D.L.	B.D.L.	B.D.L.
15	Arsenic (as As)	mg/l	B.D.L.	0.01	0.01	B.D.L.
16	Lead (as Pb)	mg/l	B.D.L.	B.D.L.	B.D.L.	B.D.L.
17	Hexavalent Chromium as Cr ⁺⁶)	mg/l	B.D.L.	B.D.L.	B.D.L.	B.D.L.
18	Dissolved Oxygen (DO)	mg/l	6.20	6.0	6.0	5.80
19	Phosphate as P	mg/l	B.D.L.	B.D.L.	B.D.L.	B.D.L.
20	Phenolic compounds	mg/l	B.D.L.	B.D.L.	B.D.L.	B.D.L.

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---7,
Town: Abu road

S.No	Parameters	Units	Abu Road Town (RSTDSP/SHR-ABR/01)	
			Date of Sampling: 04.11.2023	
			Manpur STP	Near STP WTP Santpur
1	pH @ 25°C	-	7.21	7.54
2	Conductivity @ 25°C		1210.0	1512.0
3	Total Dissolved solids	mg/l	825.0	978.0
4	Alkalinity		219.34	222.12
5	Total Hardness as CaCO ₃	mg/l	232.2	242.65
6	Nitrate as NO ₃	mg/l	18.31	16.21
7	Chlorides as Cl	mg/l	410.34	407.32
8	Sulphate as SO ₄	mg/l	139.13	120.36
9	Calcium (as Ca)	mg/l	69.23	66.20
10	Magnesium (as Mg)	mg/l	14.45	18.83
11	Fluorides (as F)	mg/l	0.70	0.75
12	Iron as Fe	mg/l	0.24	0.30
13	Arsenic (as As)	mg/l	BDL(<0.002)	BDL(<0.002)
14	Mercury (as Hg)	mg/l	BDL(<0.0005)	BDL(<0.0005)
15	Lead (as Pb)	mg/l	BDL(<0.002)	BDL(<0.002)
16	Cadmium (as Cd)	mg/l	BDL(<0.002)	BDL(<0.002)
17	Copper as Cu	mg/l	BDL(<0.002)	BDL(<0.002)
18	Total Chromium as Cr ⁺⁶)	mg/l	BDL(<0.002)	BDL(<0.002)
19	Zinc as Zn	mg/l	BDL(<0.01)	0.22
20	Selenium (as Se)	mg/l	BDL(<0.001)	BDL(<0.001)
21	Turbidity	NTU	BDL (<1.0)	BDL (<1.0)
22	Aluminium (as Al)	mg/l	BDL(<0.002)	BDL(<0.002)
23	Manganese as Mn	mg/l	BDL(<0.01)	BDL(<0.01)
24	Nickel as Ni	mg/l	BDL(<0.002)	BDL(<0.002)
25	Total residual chlorine	mg/l	BDL(<0.15)	BDL(<0.15)
26	Cyanide (as CN)	mg/l	BDL(<0.02)	BDL(<0.02)
27	Colour	Hazen	BDL(<1.0)	BDL(<1.0)
28	Odour	-	Agreeable	Agreeable
29	Taste	-	Agreeable	Agreeable
30	Boron (as B)	mg/l	BDL(<0.01)	BDL(<0.01)

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---8,
Town: Banswara

S.No	Parameters	Units	Banswara Town (RSTDIP/BNS/04)			
			Date of Sampling: 06.12.2023			
			SPS at Pratapgarh Road	SPS at Nathelav	WTP at AEn Campus	STP Site
1	pH @ 25°C	-	8.3	7.5	7.7	7.3
2	Total Dissolved solids	mg/l	336.0	544.0	132.0	520.0
3	Total Hardness as CaCO ₃	mg/l	152.0	368.0	28.0	224.0
4	Total Alkalinity	mg/l	216.0	142.0	82.0	216.0
5	Chlorides as Cl	mg/l	34.0	80.0	16.0	54.0
6	Dissolved Oxygen (DO)	mg/l	5.9	6.2	6.2	6.3
7	Fluorides (as F)	mg/l	0.31	0.55	0.31	0.45
8	Sulphate as SO ₄	mg/l	40.3	82.0	30.4	46.1
9	Iron as Fe	mg/l	0.13	0.18	0.16	0.14
10	Nitrate as NO ₃	mg/l	9.27	11.3	8.19	10.4
11	Phenolic Compound	mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
12	Copper as Cu	mg/l	BDL (<0.1)	0.11	0.15	0.12
13	Zinc	mg/l	0.15	0.13	0.17	0.14
14	Manganese as Mn	mg/l	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)
15	Mercury s Hg	mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
16	Cadmium as Cd	mg/l	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)
17	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)
18	Arsenic as Ar	mg/l	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)
19	Lead (as Pb)	mg/l	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)
20	Phosphorous	mg/l	0.24	0.26	0.14	0.21

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---9,
Town: Mandawa

S.No	Parameters	Units	Mandawa Town (RSTDIP/MDW/03)		
			Date of Sampling: 15.12.2023		
			STP 01	CWR Site 01	SPS Site 01
1	pH @ 25°C	-	7.52	7.89	7.73
2	Total Hardness as CaCO ₃	mg/l	180.0	280.0	280.0
3	Total Alkalinity	mg/l	482.0	592.0	550.0
4	Chlorides as Cl	mg/l	50.1	212.0	240.0
5	Total Dissolved solids	mg/l	632.0	1149.0	1024.0
6	Sulphate as SO ₄	mg/l	38.51	99.85	102.54
7	Fluorides (as F)	mg/l	0.41	0.61	0.74
8	Nitrate as NO ₃	mg/l	19.52	32.12	32.51
9	Iron as Fe	mg/l	0.25	0.51	0.32
10	Cadmium as Cd	mg/l	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)
11	Lead (as Pb)	mg/l	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)
12	Arsenic as Ar	mg/l	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)
13	Mercury as Hg	mg/l	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)
14	Phenolic Compound	mg/l	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)
15	Zinc as Zn	mg/l	BDL (< 0.2)	BDL (< 0.2)	BDL (< 0.2)
16	Copper as Cu	mg/l	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)
17	Manganese as Mn	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
18	Dissolved Oxygen (DO)	mg/l	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)
19	Calcium as Ca	mg/l	55.12	63.52	69.45
20	Magnesium as Mg	mg/l	10.32	29.53	25.93
21	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)
22	Phosphate as P	mg/l	0.25	0.27	0.29

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---10,
Town: Khetri

S.No	Parameters	Units	Khetri Town (RSTDIP/KTR/03)		
			Date of Sampling: 21.12.2023		
			Near AEn Campus	STP Construction Site	Construction Site of JEn Campus
1	pH @ 25°C	-	7.50	7.32	7.23
2	Total Dissolved solids	mg/l	190.0	470.0	490.0
3	Total Hardness as CaCO ₃	mg/l	180.0	312.0	324.0
4	Calcium as Ca	mg/l	38.47	60.92	37.33
5	Magnesium as Mg	mg/l	20.41	38.88	37.90
6	Chlorides as Cl	mg/l	45.98	135.98	147.98
7	Fluorides (as F)	mg/l	0.34	0.70	0.58
8	Sulphate as SO ₄	mg/l	26.14	66.20	70.28
9	Nitrate as NO ₃	mg/l	15.23	26.14	26.18
10	Total Alkalinity	mg/l	140.0	245.0	245.0
11	Iron as Fe	mg/l	0.07	0.16	0.13
12	Chromium (Hexavalent) as Cr ⁺⁶	mg/l	BDL (<0.03	BDL (<0.03	BDL (<0.03
13	Dissolved Oxygen (DO)	mg/l	5.8	5.5	6.4
14	Phenolic Compound	mg/l	BDL	BDL	BDL
15	Total Phosphate	mg/l	BDL	BDL	BDL
16	Arsenic as Ar	mg/l	BDL	BDL	BDL
17	Cadmium as Cd	mg/l	BDL	BDL	BDL
18	Copper as Cu	mg/l	0.10	0.11	0.14
19	Lead (as Pb)	mg/l	BDL	BDL	BDL
20	Manganese as Mn	mg/l	BDL	BDL	BDL
21	Zinc	mg/l	0.22	0.28	0.24
22	Mercury s Hg	mg/l	BDL	BDL	BDL

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---11,
Town: FSTP Sub Project Towns (09 Towns)

S.No	Parameters	Units	RSTDSP/FSTP-9Towns/03							
			FSTP Site Bari Town	FSTP Site Bhawani Mandi Town	FSTP Site Bhinder – Kanode Town	FSTP Site Dausa Town	FSTP Site Deeg Town	FSTP Site Shahpura (Bhilwara) Town	FSTP Site Gangapur (Bhilwara) Town	FSTP Site Tijara Town
			Date of Sampling: 15.12.2023	Date of Sampling: 12.12.2023	Date of Sampling: 15.12.2023	Date of Sampling: 14.12.2023	Date of Sampling: 16.12.2023	Date of Sampling: 14.12.2023	Date of Sampling: 16.12.2023	Date of Sampling: 19.12.2023
1	pH @ 25°C	-	7.35	7.24	7.20	7.37	7.70	7.35	7.37	7.82
2	Calcium as Ca	mg/l	56.14	135.40	82.56	51.19	130.45	257.60	112.28	41.28
3	Phenolic Compound	mg/l	BDL (< 0.10)	BDL (< 0.10)	BDL (< 0.10)	BDL (< 0.10)	BDL (< 0.10)	BDL (< 0.10)	BDL (< 0.10)	BDL (< 0.10)
4	Chlorides as Cl	mg/l	29.72	287.92	16.71	261.91	501.54	835.91	523.83	24.14
5	Fluorides (as F)	mg/l	1.11	0.27	0.60	0.93	1.08	3.35	1.80	0.42
6	Magnesium as Mg	mg/l	58.06	54.06	35.59	65.07	42.05	49.05	59.14	25.03
7	Nitrate as NO ₃	mg/l	2.46	1.08	0.45	2.02	1.70	2.27	1.14	1.83
8	Sulphate as SO ₄	mg/l	5.14	8.33	8.94	64.78	141.90	225.17	72.0	10.29
9	Total Alkalinity	mg/l	430.36	365.40	393.82	531.86	397.88	361.34	361.34	280.14
10	Total Dissolved solids	mg/l	464.0	898.0	571.0	1102.0	1113.0	1495.0	1186.0	432.0
11	Total Hardness as CaCO ₃	mg/l	366.68	560.32	325.48	395.52	498.52	844.60	523.24	210.12
12	Arsenic as Ar	mg/l	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)
13	Cadmium as Cd	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
14	Copper as Cu	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
15	Iron as Fe	mg/l	0.21	BDL (< 0.10)	0.68	0.34	0.18	BDL (< 0.10)	BDL (< 0.10)	0.81
16	Lead (as Pb)	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
17	Manganese as Mn	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
18	Mercury s Hg	mg/l	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)
19	Zinc	mg/l	BDL (< 0.20)	BDL (< 0.20)	BDL (< 0.20)	BDL (< 0.20)	BDL (< 0.20)	BDL (< 0.20)	BDL (< 0.20)	BDL (< 0.20)
20	Phosphate	mg/l	1.02	0.41	0.78	0.37	0.42	1.13	0.42	1.82
21	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)
22	Dissolved Oxygen (DO)	mg/l	4.9	4.1	6.5	4.4	6.09	5.7	7.55	7.8

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---12,
Town: FSTP Sub Project Towns (04 Towns)

S.No	Parameters	Units	RSTDSP/NKT-SHR-BAN-JOB/01		
			FSTP Site BandikuiTown	FSTP Site Jobner Town	FSTP Site Neem Ka Thana Town
			Date of Sampling: 22.12.2023	Date of Sampling: 23.12.2023	Date of Sampling: 25.12.2023
1	pH @ 25°C	-	7.14	7.36	7.16
2	Total Hardness as CaCO ₃	mg/l	166.0	158.0	252.0
3	Sulphate as SO ₄	mg/l	10.3	14.3	37.5
4	Chlorides as Cl	mg/l	94.0	84.0	102.0
5	Fluorides (as F)	mg/l	0.47	0.52	0.51
6	Total Dissolved solids	mg/l	402.0	394.0	492.0
7	Total Alkalinity	mg/l	167.0	176.0	180.0
8	Calcium as Ca	mg/l	16.0	16.4	30.4
9	Magnesium as Mg	mg/l	30.62	28.43	42.77
10	Zinc as Zn	mg/l	0.038	0.036	0.028
11	Copper as Cu	mg/l	0.021	0.022	0.019
12	Manganese as Mn	mg/l	0.017	0.021	0.023
13	Nitrate as NO ₃	mg/l	4.60	5.34	4.08
14	Mercury s Hg	mg/l	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)
15	Cadmium as Cd	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
16	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)
17	Phosphate	mg/l	0.04	0.033	0.032
18	Lead (as Pb)	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
19	Arsenic as Ar	mg/l	0.005	0.003	0.01
20	Phenolic Compound	mg/l	0.002	0.0011	0.012
21	Iron as Fe	mg/l	0.04	0.023	0.02
22	Dissolved Oxygen (DO)	mg/l	3.1	2.7	2.4

BDL - Below Detectible limit

**Surface Water Quality Monitoring Results –
Town: Banswara**

S.No	Parameters	Units	Banswara Town (RSTDIP/BNS/04)
			Date of Sampling: 06/12/2023
			Kagdi Lake
1	pH	-	7.9
2	Turbidity	NTU	0.8
3	Total Dissolved solids	mg/l	130.0
4	Total Suspended Solids	mg/l	BDL (<5.0)
5	Total Hardness as CaCO ₃	mg/l	56
6	Calcium (as Ca)	mg/l	19
7	Magnesium (as Mg)	mg/l	3.89
8	Chlorides as Cl	mg/l	14.0
9	Dissolved Oxygen (DO)	mg/l	6.6
10	Total residual chlorine	mg/l	BDL (< 0.2)
11	Fluorides (as F)	mg/l	0.59
12	Sulphate as SO ₄	mg/l	22.6
13	Iron as Fe	mg/l	0.19
14	Sodium as Na	mg/l	21.4
15	Potassium (as K)	mg/l	1.86
16	Chemical Oxygen Demand	mg/l	BDL (< 4.0)
17	Biochemical Oxygen Demand 3 days @ 25°C	mg/l	BDL (< 2.0)
18	Phosphate	mg/l	0.26
19	Copper as Cu	mg/l	0.1
20	Phenolic Compound	mg/l	BDL (< 0.01)
21	Hexavalent Chromium as Cr ⁺⁶)	mg/l	BDL (< 0.1)
22	Manganese as Mn	mg/l	BDL (< 0.1)
23	Lead (as Pb)	mg/l	BDL (< 0.1)
24	Zinc as Zn	mg/l	0.21
25	Boron (as B)	mg/l	0.05
26	Aluminium (as Al)	mg/l	BDL (< 0.01)
27	Arsenic (as As)	mg/l	BDL (< 0.02)
28	Mercury (as Hg)	mg/l	BDL (< 0.01)
29	Cadmium (as Cd)	mg/l	BDL (< 0.1)
30	Cyanide (as CN)	mg/l	BDL (< 0.01)
31	Selenium (as Se)	mg/l	BDL (< 0.01)

BDL – Below Detectible limit

Surface Water Quality Monitoring Results
Continuation Sheet ---2, Town: Didwana

S.No	Parameters	Units	Town: Didwana (RSTDIP/LDN-DID-MKN/01)
			Date of Sampling: 30/12/2023
			Pond near STP 3 MLD Site
1	Turbidity	NTU	25.0
2	Total Suspended Solids	mg/l	95.0
3	pH value	-	9.17
4	Hexavalent Chromium as Cr ⁺⁶)	mg/l	BDL (< 0.01)
5	Potassium (as K)	mg/l	262.0
6	Dissolved Oxygen (DO)	mg/l	5.2
7	Biochemical Oxygen Demand 3 days @ 25°C	mg/l	13.2
8	Aluminium (as Al)	mg/l	BDL (< 0.01)
9	Total Dissolved solids	mg/l	6816.0
10	Total residual chlorine	mg/l	BDL (< 0.1)
11	Cyanide (as CN)	mg/l	BDL (< 0.02)
12	Total Hardness as CaCO ₃	mg/l	172.0
13	Chlorides as Cl	mg/l	2299.0
14	Sulphate as SO ₄	mg/l	323.0
15	Nitrate as NO ₃	mg/l	BDL (<0.5)
16	Fluorides (as F)	mg/l	1.4
17	Calcium (as Ca)	mg/l	34.0
18	Magnesium (as Mg)	mg/l	21.0
19	Copper as Cu	mg/l	BDL (<0.02)
20	Iron as Fe	mg/l	0.65
21	Manganese as Mn	mg/l	BDL (<0.02)
22	Zinc as Zn	mg/l	BDL (<0.02)
23	Boron (as B)	mg/l	BDL (< 0.5)
24	Arsenic (as As)	mg/l	BDL (< 0.005)
25	Mercury (as Hg)	mg/l	BDL (< 0.001)
26	Lead (as Pb)	mg/l	BDL (< 0.005)
27	Cadmium (as Cd)	mg/l	BDL (< 0.001)
28	Selenium (as Se)	mg/l	BDL (< 0.005)
29	Sodium as Na	mg/l	2463.0
30	Chemical Oxygen Demand	mg/l	48.0

BDL – Below Detectible limit

**Soil Quality Results –
Town: Fatehpur**

Sr. No	Parameters	Unit of Measurements	Fatehpur Town (RSTDSP/ RTG-FTP-LXG/01)				
			Date of Sampling: 23.09.2023				
			At Nawalgarh Railway Station	4.3 MLD Naribari road	Workmen Camp Bikaner Puliya Bypass	Behind Dholi Sati Temple	0.6 MLD SPS
1	pH (at 25°C)	-	8.21	7.61	8.11	7.21	7.65
2	Bulk Density	gm/cc	1.22	1.42	1.40	1.36	1.32
3	Available Phosphorous	Kg/hac	38.86	37.23	41.80	40.82	35.60
4	Potassium (as K)	Kg/hac	114.03	125.19	145.47	133.24	120.52
5	Electrical Conductivity	mS/cm	0.295	0.310	0.315	0.365	0.298
6	Calcium (as Ca)	mg/kg	164.48	127.93	109.65	173.62	152.30
7	Magnesium (as Mg)	mg/kg	55.44	63.76	47.13	34.93	45.44
8	Organic Matter	%	0.42	0.32	0.32	0.68	0.36
9	Moisture content	%	1.20	1.20	1.20	1.17	1.11
10	Sodium (as Na)	mg/kg	58.92	90.89	80.93	54.63	54.62
11	Chloride	mg/kg	129.32	129.32	96.99	161.65	115.20
12	Total Kjeldhal Nitrogen (as TKN)	mg/kg	140.05	114.58	101.85	114.58	125.60
13	Soil Texture	-	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam

BDL - Below Detectible limit

Soil Quality Monitoring Results
Continuation Sheet ---2, Town: Ratangarh

Sr. No	Parameters	Unit of Measurements	Ratangarh Town (RSTDSP/ RTG-FTP-LXG/01)				
			Date of Sampling: 22.09.2023				
			STP 3.8 MLD	STP 6.1 MLD	SPS 3.8 MLD	Workmen Camp	SPS 4.6 MLD
1	pH (at 25°C)	-	7.61	7.81	7.65	8.31	7.95
2	Bulk Density	Gm/cc	1.41	1.52	1.28	1.36	1.32
3	Available Phosphorous	kg/ha	32.06	30.24	24.49	27.52	29.94
4	Potassium (as K)	kg/ha	164.84	144.85	165.94	134.14	138.61
5	Electrical Conductivity	mS/cm	290.0	0.365	0.352	0.375	0.275
6	Calcium (as Ca)	mg/kg	137.07	548.29	703.64	630.53	520.87
7	Magnesium (as Mg)	mg/kg	54.89	61.50	47.68	59.33	36.04
8	Organic Matter	%	0.50	0.41	0.55	0.76	0.67
9	Moisture content	%	0.69	1.14	1.52	1.52	1.14
10	Sodium (as Na)	mg/kg	81.44	74.61	70.63	75.85	77.85
11	Chloride	mg/kg	151.77	189.72	153.13	153.13	191.41
12	Total Kjeldhal Nitrogen (TKN)	mg/kg	101.85	146.41	159.15	178.25	197.34
13	Specific Gravity	-	1.50	2.10	2.50	2.70	3.65
14	Soil Texture	-	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam

Soil Quality Monitoring Results
Continuation Sheet ---3, Town: Sardarshahar

Sr. No	Parameters	Unit of Measurements	Sardarshahar Town (RSTDSP/SRD/01)					
			Date of Sampling: 13.10.2023					
			STP – 1 (2.3 MLD) South Campus	STP – 2 (3.4 MLD) North Campus	PHED Campus (CWR 2400 KL)	Pipe Laying Zone (DMA 4AKuber Cottage)	1.6 MLD STP	SPS 2.3 MLD
1	pH (at 25°C)	-	8.35	8.19	7.85	8.30	8.05	7.55
2	E. Conductivity	mS/cm	0.377	0.380	0.427	0.277	0.416	0.419
3	Calcium (as Ca)	mg/kg	134.15	153.65	154.34	125.2	154.9	154.9
4	Magnesium (as Mg)	mg/kg	93.36	97.34	95.63	78.10	102.6	102.6
5	Sodium (as Na)	mg/kg	95.60	103.64	87.57	84.5	82.63	82.34
6	Potassium (as K)	Kg/hect.	161.8	156.32	160.36	157.2	166.30	161.52
7	Organic Matter	%	0.52	0.54	0.50	0.54	0.54	0.58
8	Soil Texture	-	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
9	Total Kjeldhal Nitrogen (as TKN)	Kg/hect.	340.68	356.94	372.4	350.5	364.8	364.7
10	Available Phosphorus	Kg/hect.	35.34	32.74	35.37	33.4	33.63	31.36
11	Moisture content	%	8.68	4.68	5.65	3.80	4.48	4.85
12	Permeability	cm/S	0.0003	0.0007	0.0008	0.0008	0.0008	0.0005
13	Oil & Grease	mg/kg	5.36	6.21	6.30	5.23	6.48	5.40

BDL - Below Detectable limit

Soil Quality Monitoring Results
Continuation Sheet ---4, Town: Sirohi

Sr. No	Parameters	Unit of Measurements	Sirohi Town (RSTDSP/SHR-ABR/01)			
			Date of Sampling: 29.09.2023			
			WTP 9 MLD at Angore PHED Campus	Near Workmen Camp (STP 5.0 MLD)	Kalka Ji Pump House	CRMSC Building
1	pH (at 25°C)	-	7.36	7.78	7.96	8.04
2	Electrical Conductivity	mS/cm	0.340	0.378	0.412	0.396
3	Calcium (as Ca)	mg/kg	410.25	395.24	410.25	392.78
4	Magnesium (as Mg)	mg/kg	80.36	70.11	75.25	78.14
5	Sodium (as Na)	mg/kg	70.25	65.43	67.96	80.69
6	Potassium (as K)	Kg/hect	195.40	164.78	160.58	158.96
7	Organic Matter	%	0.62	0.60	0.65	0.63
8	Soil Texture	-	Sandy	Sandy	Sandy	Sandy
9	Available Nitrogen (as N)	Kg/hect.	325.14	264.87	265.74	273.85
10	Phosphate	mg/kg	22.14	20.69	23.63	20.90
11	Moisture content	%	3.74	2.36	2.47	2.14
12	Permeability	cm/S	0.0009	0.0009	0.0006	0.0008
13	Oil & Grease	mg/kg	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)

BDL - Below Detectible limit

Soil Quality Monitoring Results
Continuation Sheet ---5, Town: Kuchaman

Sr. No	Parameters	Unit of Measurements	Kuchaman Town (RSTDSP/KMN/02)		
			Date of Sampling: 13.10.2023		
			STP Site Near New Bus Stand	RUIDP Office Near SK Academy	L&T Labour Colony
1	pH (at 25°C)	-	9.16	8.55	8.05
2	Oil & Grease	mg/kg	BDL (< 5.0)	BDL (< 5.0)	BDL (< 5.0)
3	Sand	%	80.0	83.0	84.0
4	Slit	%	11.0	12.0	9.0
5	Texture	-	Loamy Sand	Loamy Sand	Loamy Sand
6	Exchangeable Sodium (as Na)	mg/kg	198.0	102.0	89.0
7	Clay	%	9.0	5.0	7.0
8	Electrical Conductivity	µS/cm	294.0	78.0	36.0
9	Total Nitrogen (as N)	mg/kg	330.0	174.0	146.0
10	Organic Matter	%	0.59	0.36	0.28
11	Permeability	cm/hr	4.5	4.3	4.6
12	Calcium (as CaO)	mg/kg	4250.0	1300.0	1750.0
13	Exchangeable Magnesium (as Mg)	mg/kg	150.0	90.0	60.0
14	Exchangeable Potassium (as K)	mg/kg	73.0	47.0	42.0
15	Phosphate	mg/kg	19.0	16.0	14.0
16	Moisture content	%	28.0	22.0	20.0

BDL - Below Detectible limit

Soil Quality Monitoring Results
Continuation Sheet ---6, Town: Pratapgarh

Sr. No	Parameters	Unit of Measurements	Pratapgarh Town (RSTDSP/PRT/01)			
			Date of Sampling: 31.10.2023			
			Zila Parishad Road SP Side	Gupt ganga Hanuman Mandir Road	Forest Colony	Velocity Colony
1	pH (at 25°C)	-	7.65	7.95	7.70	7.80
2	Electrical Conductivity	µS/cm	612.0	510.0	490.0	520.0
3	Moisture content	%	18.60	15.34	14.32	16.30
4	Total Nitrogen (as TKN)	%	0.04	0.05	0.04	0.06
5	Sodium (as Na)	mg/kg	120.65	136.52	135.60	140.25
6	Potassium (as K)	mg/kg	68.24	74.59	84.79	87.90
7	Organic Matter	%	3.85	3.65	4.20	3.54
8	Calcium (as Ca)	mg/kg	46.20	52.94	29.54	26.58
9	Magnesium (as Mg)	mg/kg	2.30	22.61	4.62	3.90
10	Phosphorus (as p)	mg/kg	71.68	40.36	65.20	45.21
11	Oil & Grease	mg/kg	B.D.L.	B.D.L.	BDL	BDL
12	Permeability	cm/hr	8.50	7.40	9.50	8.50
13	Texture	-	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
	Sand	%	68.20	77.20	70.20	65.20
	Silt	%	19.50	13.50	15.40	21.60
	Clay	%	12.30	9.30	14.40	13.20

BDL - Below Detectible limit

Soil Quality Monitoring Results
Continuation Sheet ---7, Town: Abu Road

Sr. No	Parameters	Unit of Measurements	Abu Road Town (RSTDSP/SHR-ABR/01)			
			Date of Sampling: 04.11.2023			
			Manpur STP	Manpur Workmen Camp	Near STP & WTP Santpur	Luniapura CWR
1	pH (at 25°C)	-	7.42	7.49	7.60	7.79
2	Electrical Conductivity	mS/cm	0.382	0.358	0.363	0.360
3	Soil Texture	-	Sandy	Sandy	Sandy	Sandy
4	Calcium (as Ca)	mg/kg	389.10	439.32	398.12	421.10
5	Sodium (as Na)	mg/kg	79.66	76.37	89.32	78.34
6	Potassium (as K)	mg/kg	161.43	180.95	175.34	160.85
7	Organic Matter	%	0.61	0.62	0.58	0.58
8	Magnesium (as Mg)	mg/kg	85.42	86.45	83.64	77.37
9	Available Nitrogen (as N)	Kg/hect.	266.21	276.37	260.34	265.49
10	Phosphate	mg/kg	20.32	25.32	20.56	19.67
11	Moisture content	%	3.12	3.19	3.85	3.43
12	Permeability	cm/S	0.0006	0.0008	0.0007	0.0008
13	Oil & Grease	mg/kg	BDL (< 0.4)	BDL (< 0.4)	BDL (< 0.4)	BDL (< 0.4)

BDL - Below Detectible limit

Soil Quality Monitoring Results
Continuation Sheet ---8, – Town: Banswara

Sr. No	Parameters	Unit of Measurements	Banswara Town (RSTDIP/BNS/04)	
			Date of Sampling: 06.12.2023	
			STP Site	SPS @ Pratapgarh Road
1	pH (at 25°C)	-	8.5	8.3
2	Electrical Conductivity	mS/cm	0.416	0.437
3	Moisture content	%	17.32	14.21
4	Texture	-	Sandy Loam	Sandy Loam
5	Calcium (as Ca)	mg/kg	1842	1946
6	Magnesium (as Mg)	mg/kg	1172	1342
7	Permeability	cm/sec	10 ⁻⁴	10 ⁻⁴
8	Sodium (as Na)	mg/kg	1326	1247
9	Potassium (as K)	mg/kg	802	908
10	Phosphate (as p)	Kg/ha	29	33
11	Organic Matter	%	0.45	0.53
12	Total Nitrogen (as TKN)	mg/kg	160	158
13	Oil & Grease	mg/kg	BDL (<1.0)	BDL (<1.0)

BDL - Below Detectible limit

Soil Quality Monitoring Results
Continuation Sheet ---9, – Town: Mandawa

Sr. No	Parameters	Unit of Measurements	Mandawa Town (RSTDIP/MDW/03)		
			Date of Sampling: 14.12.2023 & 15.12.2023		
			SPS Site 01	CWR Site 01	STP Site 01
1	pH (at 25°C)	-	8.26	8.35	8.21
2	Electrical Conductivity	mS/cm	0.457	0.519	0.434
3	Calcium (as Ca)	mg/kg	52.10	54.26	58.12
4	Sodium (as Na)	mg/kg	32.56	38.45	36.25
5	Potassium (as K)	Kg/hect.	284.21	301.20	322.02
6	Organic Matter	%	0.75	0.84	0.68
7	Magnesium (as Mg)	mg/kg	35.26	34.12	51.26
8	Available Nitrogen (as N)	Kg/hect.	242.51	238.45	231.02
9	Available Phosphorus	Kg/hect.	32.56	36.85	39.85
10	Soil Moisture content	%	3.10	4.12	5.01
11	Permeability	cm/S	0.002	0.003	0.04
12	Soil Texture	-	Sandy Loam	Sandy Loam	Sandy Loam
13	Oil & Grease	mg/kg	BDL (< 0.5)	BDL (< 0.4)	BDL (< 0.4)

BDL - Below Detectible limit

Soil Quality Monitoring Results
Continuation Sheet ---10, – Town: Khetri

Sr. No	Parameters	Unit of Measurements	Khetri Town (RSTDIP/KTR/03)		
			Date of Sampling: 21.12.2023		
			STP Construction Site	Construction Site Near Polo Ground	Construction Site of JEn Campus
1	pH (at 25°C)	-	7.84	7.73	7.98
2	Electrical Conductivity	mS/cm	0.189	0.164	0.175
3	Soil Texture	-	Sandy	Sandy	Sandy
4	Soil Moisture content	%	0.40	0.36	0.38
5	Calcium Carbonate	%	14.53	9.52	12.68
6	Bulk Density	Gm/cc	1.42	1.39	1.40
7	Magnesium (as Mg)	mg/kg	32.70	26.34	30.36
8	Calcium (as Ca)	mg/kg	84.0	70.12	75.24
9	Organic Matter	%	0.32	0.34	0.32
10	Sodium (as Na)	mg/kg	13.5	15.50	14.15
11	Potassium (as K)	mg/kg	94.8	84.48	88.29
12	Total Kheldhal Nitrogen (as TKN)	%	0.05	0.04	0.05
13	Total Phosphorus	Kg/hect.	9.02	11.6	13.15
14	Oil & Grease	mg/kg	1.00	2.00	1.00
15	Permeability	cm/S	0.02	0.01	0.02

BDL - Below Detectible limit

Soil Quality Monitoring Results
Continuation Sheet ---11,
Town: Ladnu, Didwana & Makrana

Sr. No	Parameters	Unit of Measurements	RSTDIP/LDN-DID-MKN/01							
			Town: Didwana Date of Sampling: 30.12.2023			Town: Ladnu Date of Sampling: 28.12.2023		Town: Makrana Date of Sampling: 31.12.2023		
			STP 3 MLD Mela Maidan	SPS 1.3 MLD Choti Devi School	SPS 1.7 MLD Site Salt road	STP-1, 5.5 MLD Site Asota Village	STP- 2, 2.4 MLD Site Chipoli	STP 7.7 MLD Calananda	SPS 2.3 MLD Site Jhalatalav	SPS 2.1 MLD Site Matavar
1	pH (at 25°C)	-	7.74	9.72	7.69	8.20	7.92	8.17	8.26	9.08
2	Electrical Conductivity	µS/cm	3330	3520.0	101.0	470.0	198.0	212.0	223.0	319.0
3	Sand	%	65.0	75.0	73.0	69.0	72.0	78.0	66.0	67.0
4	Silt	%	16.0	19.0	17.0	14.0	20.0	15.0	18.0	16.0
5	Clay	%	19.0	6.0	10.0	17.0	8.0	7.0	16.0	17.0
6	Texture	-	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
7	Calcium as Ca	mg/kg	9500	6200	6700	10900	9000	3800	10000	7200
8	Exchangeable Magnesium as Mg	mg/kg	120.0	150.0	60.0	240.0	240.0	120.0	90.0	210.0
9	Exchangeable Sodium as Na	mg/kg	137.0	141.0	132.0	174.0	134.0	91.0	152.0	95.0
10	Exchangeable Potassium as K	mg/kg	36.0	138.0	26.0	24.0	10.0	31.0	48.0	61.0
11	Total Nitrogen as N	mg/kg	386.0	218.0	269.0	202.0	179.0	140.0	341.0	353.0
12	Organic Matter	%	0.38	0.16	0.30	0.29	0.22	0.20	0.33	0.36
13	Phosphate as PO ₄	mg/kg	9.6	31.0	12.0	9.4	9.1	22.0	12.0	9.2
14	Soil Moisture	%	26.0	15.0	20.0	23.0	18.0	16.0	22.0	25.0
15	Permeability	Cm/hr	4.1	4.7	4.2	4.4	4.6	4.6	4.2	4.1
16	Oil & Grease	mg/kg	BDL (<5.0)	BDL (<5.0)	BDL (<5.0)	BDL (<5.0)	BDL (<5.0)	BDL (<5.0)	BDL (<5.0)	BDL (<5.0)

BDL - Below Detectible limit

**Soil Quality Monitoring Results –
Continuation Sheet ---12, FSTP Sub Project Towns (09 Town)**

Sr. No	Parameters	Unit of Measurements	RSTDSP/FSTP-9Towns/03							
			FSTP Site Bari Town	FSTP Site Bhawani Mandi Town	FSTP Site Bhinder – Kanode Town	FSTP Site Dausa Town	FSTP Site Deeg Town	FSTP Site Shahpura (Bhilwara) Town	FSTP Site Gangapur (Bhilwara) Town	FSTP Site Tijara Town
			Date of Sampling: 15.12.2023	Date of Sampling: 11.12.2023	Date of Sampling: 15.12.2023	Date of Sampling: 11.12.2023	Date of Sampling: 16.12.2023	Date of Sampling: 14.12.2023	Date of Sampling: 15.12.2023	Date of Sampling: 16.12.2023
1	pH (at 25°C)	-	8.23	8.93	7.85	7.60	8.72	7.39	8.11	8.79
2	Available Nitrogen	Kg/ha	114.58	114.44	178.11	101.85	127.32	152.57	139.83	200.32
3	Potassium (as K)	Kg/ha	181.13	257.26	201.31	190.07	192.37	198.97	200.32	84.95
4	Electrical Conductivity	mS/cm	0.320	0.664	0.510	0.221	0.339	0.735	0.328	0.120
5	Calcium (as Ca)	mg/kg	115.41	41.9	262.45	98.92	140.14	209.70	230.96	173.38
6	Magnesium (as Mg)	mg/kg	49.68	7.0	50.03	29.03	52.67	45.06	53.03	55.10
7	Organic Matter	%	0.63	0.63	0.80	0.96	0.86	0.57	0.75	0.83
8	Soil Moisture	%	11.22	0.93	2.79	5.49	2.98	1.83	5.96	3.50
9	Sodium (as Na)	mg/kg	60.91	79.89	57.98	64.88	53.90	58.88	58.62	55.89
10	Permeability	cm/S	0.0007	0.0005	0.0007	0.0006	0.0007	0.0006	0.0008	0.0009
11	Oil & Grease	mg/kg	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)
12	Phosphate	Kg/ha	1.13	6.53	16.95	0.90	6.94	18.48	17.22	17.12
13	Soil Texture	-	Sandy Loam	Clay Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam

BDL - Below Detectible limit

Ambient air quality monitoring Results – 1st Quarter (January to March) of 2024

S.No.	Package / Town / Monitoring Location	Monitoring date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
1	RSTDIP/MDW/03						
	Mandawa Town						
	SPS Site	20.03.2024 to 21.03.2024	68.53	24.26	8.06	13.20	0.59
	CWR PHED Site		66.88	23.74	9.24	12.72	0.61
	STP Site	69.38	23.40	9.11	12.75	0.66	
	Pipe Laying Site	65.58	22.40	8.26	12.02	0.69	
2	RSTDIP/SHR-ABR/01						
	Abu Road Town						
	CWR Market Area	12.02.2024 to 13.02.2024	68.49	28.37	14.13	9.0	0.59
	Manpur Workmen Camp		63.94	29.64	11.10	12.67	0.60
	Near STP & WTP Manpur	68.76	30.85	8.76	13.10	0.64	
	CWR Luniapura	68.56	29.79	9.13	12.89	0.61	
3	RSTDIP/SHR-ABR/01						
	Sirohi Town						
	Angore WTP	13.02.2024 to 14.02.2024	70.34	29.56	12.10	19.52	560
	Near Workmen Camp/STP 5.0 MLD		72.38	31.51	10.06	18.45	590
	1.7 MLD STP	61.10	28.65	10.20	17.22	600	
	CRMC Building	67.52	27.63	9.32	16.65	600	
4	RSTDIP/PRT/01						
	Pratapgarh Town						
	Near STP Main gate	16.03.2024	81.12	38.45	7.98	25.85	0.69
	Near Sewage Pump House Station		82.58	39.66	8.14	27.20	0.71
	Near CRMC 1		72.19	29.45	7.84	26.38	0.65
5	RSTDIP/LDN-DID-MKN/01						
	Ladnu Town						
	STP – 1 (5.5 MLD) Asota Village	27.03.2024 to 28.03.2024	78.46	39.14	10.34	21.94	0.54
	STP – 2 (2.4 MLD) Chipoli		74.82	36.58	11.38	22.94	0.48
	Pipe Laying Site Near Sensitive Area (Guest House, Janta Colony)		70.48	32.64	8.32	18.63	0.41
	Pipe Laying Site Near Sensitive Area (Gaurav Path, L&T Office)		72.08	34.59	9.84	20.67	0.47
6	RSTDIP/LDN-DID-MKN/01						
	Didwana Town						
	STP 3 MLD Site (Mela Maidan)	28.03.2024 to 29.03.2024	80.49	38.71	11.63	20.34	0.56
	SPS 1.3 MLD Site (Chhoti Devi School)		76.91	37.41	12.53	20.67	0.51
	SPS 1.7 MLD (Salt Road)	72.84	30.78	7.94	16.40	0.40	
	Pipe Laying Site Near Sensitive Area (Store Room Kalwani)	74.62	36.08	10.32	21.38	0.56	
7	RSTDIP/LDN-DID-MKN/01						
	Makrana Town						
	STP 7.7 MLD Site (Calananda)	29.03.2024 to 30.03.2024	78.14	40.62	10.85	21.34	0.51
	SPS 2.1 MLD Site (Matavar Zone 8)		72.48	34.72	8.06	19.66	0.44
	SPS 2.3 MLD (Jhalatalav Zone 5)		70.46	31.58	7.81	17.91	0.46
	Pipe Laying Site Near Sensitive Area (L&T Workmen Camp & Store nearby Gurjar Colony)		76.14	34.89	11.53	20.57	0.53
8	RSTDIP/KTR/03						
	Khetri Town						
	STP Construction Site		91.26	42.12	7.68	18.6	0.32

	Construction Site JEn Campus	15.03.024 to 17.03.2024	87.36	38.52	7.89	18.56	0.31
	Construction Site AEn Campus		88.75	44.55	9.15	20.26	0.35
	Construction Site Nagar Palika		91.34	43.20	8.64	21.20	0.33
	HP Gas Agency Near Cinema Road		86.45	40.26	9.10	16.32	0.31
9	RSTDIP/RTG-FTP-LXG/01						
	Ratangarh Town						
	STP 3.8 MLD	25.12.2023 to 26.12.2023	71.25	28.36	8.96	18.10	520
	STP 6.1 MLD		73.63	30.74	7.96	17.45	580
	SPS 3.8 MLD		67.85	28.41	8.10	16.32	520
	SPS 4.6 MLD		70.14	25.63	7.85	14.78	500
	Workmen Camp		63.78	23.78	8.10	15.36	520
	Guest House		64.74	26.85	7.25	13.14	510
10	RSTDIP/RTG-FTP-LXG/01						
	Fatehpur Town						
	Nawalgarh Railway puliya	27.12.2023 to 29.12.2023	67.89	25.45	8.14	15.36	560
	At Naribari Road STP 4.3 MLD		70.36	30.78	7.14	16.32	520
	At Behind Dholi Sati Temple SPS 3.5 MLD		68.78	23.63	7.63	13.25	580
	SPS 0.6 MLD		71.50	26.36	7.85	16.41	520
	Workmen Camp Bikaner Puliya		72.56	25.32	8.10	15.14	530
11	RSTDIP/SRD/01						
	Sardarshahar Town						
	STP 1.6 MLD	16.01.2024 to 17.01.2024	69.53	30.35	10.21	18.98	660
	STP 2.3 MLD South Campus		66.90	26.36	9.10	15.47	690
	STP 3.4 MLD North Campus		69.34	29.54	11.87	18.21	680
	PHED Campus-CWR 2400 KL		69.54	27.43	10.67	19.82	660
	DMA 7A HDPE Pipe Laying		66.32	27.56	10.21	16.56	640
	Pipe laying Zone 2 HSE work		66.39	26.82	9.11	15.93	650

Ambient air quality monitoring Results – FSTP Towns

S.No.	Package / Town / Monitoring Location	Monitoring date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
RSTDSP / NKT –SHR – BAN –JOB / 01							
1.	FSTP Site, Bandi Kui	21.03.2024 to 22.03.2024	85.44	49.2	9.5	18.9	0.48
2.	FSTP Site Jobner	22.03.2024 to 23.03.2024	80.3	39.7	16.9	9.4	0.52
3.	FSTP Site Neem Ka Thana	24.03.2024 to 25.03.2024	79.2	50.1	17.3	13.0	0.55
RSTDSP / FSTP 9 TOWNS/03							
4	FSTP Site Dausa	19.03.2024 to 20.03.02024	63.50	23.83	8.01	10.89	0.56
5	FSTP Site Bari	20.03.2024 to 21.03.2024	67.64	25.10	8.41	13.33	0.57
6	FSTP Site Deeg	20.03.2024 to 21.03.2024	66.51	24.52	8.15	12.43	0.62
7	FSTP Site Tijara	21.03.2024 to 22.03.2024	60.22	21.77	7.65	14.25	0.65
8	FSTP Site Bhawani Mandi	22.03.2024 to 23.03.2024	67.30	24.71	7.39	12.75	0.50
9	FSTP Site Bhinder-Kanode	23.03.2024 to 24.03.2024	77.37	34.28	7.98	14.78	0.68
10	FSTP Site Shahpura	22.03.2024 to 23.03.2024	73.01	32.12	7.06	15.0	0.71
11	FSTP Site Gangapur	22.03.2024 to 23.03.2024	77.86	33.46	7.26	14.06	0.67
12	FSTP Site Pilibanga-Suratgarh	18.03.2024 to 19.03.2024	64.05	26.38	7.86	11.38	0.51

Ambient Noise Level Monitoring Results - 1st Quarter (January to March) of 2024

Annual Noise Level Monitoring Results - Quarter (January to March) of 2024				
S.No.	Package / Town / Monitoring Location	Monitoring date	Noise Level Leq (dB(A))	
			Day time	Night time
1	RSTDIP/MDW/03			
	Mandawa Town			
	SPS Site	20.03.2024 to 21.03.2024	64.80	42.1
	CWR PHED Site		59.60	48.50
	STP Site		61.32	46.52
	Pipe Laying Site		61.42	50.40
2	RSTDIP/SHR-ABR/01			
	Abu Road Town			
	CWR Market Area	12.02.2024 to 13.02.2024	58.69	42.85
	Manpur Workmen Camp		60.36	47.25
	Near STP & WTP Manpur		56.59	43.11
CWR Luniapura	54.56		43.13	
3	RSTDIP/SHR-ABR/01			
	Sirohi Town			
	Angore WTP	13.02.2024 to 14.02.2024	58.96	45.65
	Near Workmen Camp/STP 5.0 MLD		59.52	48.10
	1.7 MLD STP		60.88	46.96
	CRMC Building		54.22	42.11
4	RSTDIP/PRT/01			
	Pratapgarh Town			
	Near STP Main gate	16.03.2024	60.1	42.6
	Near Sewage Pump House Station		62.0	44.2
	Near CRMC 1		59.4	46.1
5	RSTDIP/LDN-DID-MKN/01			
	Ladnu Town			
	STP – 1 (5.5 MLD) Asota Village	27.03.2024 to 28.03.2024	61.9	52.3
	STP – 2 (2.4 MLD) Chipoli		62.4	48.7
	Pipe Laying Site Near Sensitive Area (Guest House, Janta Colony)		56.1	43.5
	Pipe Laying Site Near Sensitive Area (Gaurav Path, L&T Office)		58.6	48.2
6	RSTDIP/LDN-DID-MKN/01			
	Didwana Town			
	STP 3 MLD Site (Mela Maidan	28.03.2024 to 29.03.2024	64.1	53.7
	SPS 1.3 MLD Site (Chhoti Devi School)		59.4	48.6
	SPS 1.7 MLD (Salt Road)		57.9	46.1
Pipe Laying Site Near Sensitive Area (Store Room Kalwani Choraya)	56.5		42.3	
7	RSTDIP/LDN-DID-MKN/01			
	Makrana Town			
	STP 7.7 MLD Site (Calananda)	29.03.2024 to 30.03.2024	63.7	51.3
	SPS 2.1 MLD Site (Matavar Zone 8)		54.9	41.9
	SPS 2.3 MLD (Jhalatalav Zone 5)		53.4	42.7
Pipe Laying Site Near Sensitive Area (L&T Workmen Camp & Store nearby Gurjar Colony)	57.9		47.1	
8	RSTDIP/KTR/03			
	Khetri Town			
	STP Construction Site		56.7	48.3

	Construction Site JEn Campus	15.03.024 to 17.03.2024	54.3	45.1
	Construction Site AEn Campus		57.7	47.5
	Construction Site Nagar Palika		55.3	45.1
	HP Gas Agency Near Cinema Road		55.7	43.5
9	RSTDIP/RTG-FTP-LXG/01			
	Ratangarh Town			
	STP 3.8 MLD	25.12.2023 to 26.12.2023	53.78	41.45
	STP 6.1 MLD		62.89	47.36
	SPS 3.8 MLD		63.85	48.56
	SPS 4.6 MLD		60.40	48.69
	Workmen Camp		54.74	40.89
	Guest House		52.96	39.78
10	RSTDIP/RTG-FTP-LXG/01			
	Fatehpur Town			
	Nawalgarh Railway puliya	27.12.2023 to 29.12.2023	62.10	51.41
	At Naribari Road STP 4.3 MLD		63.41	48.36
	At Behind Dholi Sati Temple SPS 3.5 MLD		62.78	46.36
	SPS 0.6 MLD		63.36	49.21
	Workmen Camp Bikaner Puliya		69.36	50.36
	11		RSTDIP/SRD/01	
Sardarshahar Town				
STP 1.6 MLD		16.01.2024 to 17.01.2024	53.65	43.67
STP 2.3 MLD South Campus			51.98	42.23
STP 3.4 MLD North Campus			52.21	40.98
PHED Campus-CWR 2400 KL			52.76	42.29
DMA 7A HDPE Pipe Laying			54.23	42.10
Pipe laying Zone 2 HSE work			53.32	41.20

Ambient Noise Level Monitoring Results – FSTP Towns

S.No.	Package / Town / Monitoring Location	Monitoring date	Noise Level Leq (dB(A))	
			Day time	Night time
RSTDSP / NKT –SHR – BAN –JOB / 01				
1	FSTP Site, Bandi Kui	21.03.2024 to 22.03.2024	64.0	51.0
2	FSTP Site, Jobner	22.03.2024 to 23.03.2024	63.0	50.0
3	FSTP Site, Neem Ka Thana	24.03.2024 to 25.03.2024	64.0	53.0
RSTDSP / FSTP 9 TOWNS/03				
4	FSTP Site Dausa	19.03.2024 to 20.03.2024	59.45	43.32
5	FSTP Site Bari	20.03.2024 to 21.03.2024	61.10	47.51
6	FSTP Site Deeg	20.03.2024 to 21.03.2024	63.12	44.52
7	FSTP Site Tijara	21.03.2024 to 22.03.2024	59.36	41.14
8	FSTP Site Bhawani Mandi	22.03.2024 to 23.03.2024	62.14	44.57
9	FSTP Site Bhinder-Kanode	23.03.2024 to 24.03.2024	62.57	45.52
10	FSTP Site Shahpura	22.03.2024 to 23.03.2024	58.36	41.42
11	FSTP Site Gangapur	22.03.2024 to 23.03.2024	59.36	40.10
12	FSTP Site Pilibanga-Suratgarh	18.03.2024 to 19.03.2024	60.40	43.20

Ground Water Quality Monitoring Results
Town: Ratangarh

S.No	Parameters	Units	Town: Ratangarh (RSTDIP/RTG-FTP-LXG/01)			
			Date of Sampling: 25.12.2023			
			STP 3.8 MLD	STP 6.1 MLD	Labour Camp	RJ Guest House
1	pH @ 25°C	-	7.36	7.56	7.05	7.60
2	Turbidity	NTU	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)
3	Calcium as Ca		43.51	56.75	39.37	49.19
4	Chlorides as Cl	mg/l	137.46	85.45	57.58	66.87
5	Electrical conductivity	µs/cm	687.0	520.0	345.0	412.0
6	Fluorides (as F)	mg/l	0.42	0.38	0.21	0.28
7	Magnesium as Mg	mg/l	3.44	6.88	3.44	4.59
8	Nitrate as NO ₃	mg/l	1.78	2.14	1.88	2.25
9	Sulphate as SO ₄	mg/l	35.63	38.96	18.36	25.12
10	Total Alkalinity	mg/l	194.88	129.62	105.56	97.44
11	Total Dissolved solids	mg/l	446.60	338.0	224.30	267.80
12	Total Hardness as CaCO ₃	mg/l	122.72	169.92	113.28	141.60
13	Sodium as Na	mg/l	54.85	48.63	25.23	35.63
14	Potassium as K	mg/l	1.25	1.85	0.78	0.96
15	Copper as Cu	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
16	Iron as Fe	mg/l	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)
17	Lead (as Pb)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
18	Manganese as Mn	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
19	Color	mg/l	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)
20	Odour	mg/l	Agreeable	Agreeable	Agreeable	Agreeable
21	Phosphorous	mg/l	BDL (<0.2)	BDL (<0.2)	BDL (<0.2)	BDL (<0.2)

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---2, Town: Fatehpur

S.No	Parameters	Units	Town: Fatehpur, (RSTDIP/RTG-FTP-LXG/01)			
			Date of Sampling: 28.12.2023			
			At Naribari Road 4.3 MLD	At Workmen Camp Bikaner Puliya	Nawalgarh Railway puliya	At SPS 3.5 MLD
1	pH @ 25°C	-	7.89	7.45	7.36	7.69
2	Turbidity	NTU	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)
3	Calcium as Ca		85.13	87.02	22.70	26.48
4	Chlorides as Cl	mg/l	83.59	133.75	46.44	57.58
5	Electrical conductivity	µs/cm	610.0	986.0	310.0	378.0
6	Fluorides (as F)	mg/l	0.32	0.36	0.22	0.26
7	Magnesium as Mg	mg/l	6.88	3.44	3.44	5.73
8	Nitrate as NO3	mg/l	3.85	3.85	2.25	1.96
9	Sulphate as SO4	mg/l	62.36	52.10	20.41	25.74
10	Total Alkalinity	mg/l	125.86	373.52	97.44	117.74
11	Total Dissolved solids	mg/l	396.50	640.90	201.5	245.70
12	Total Hardness as CaCO3	mg/l	240.72	231.28	70.80	89.68
13	Sodium as Na	mg/l	48.56	25.36	28.36	36.25
14	Potassium as K	mg/l	1.89	2.14	2.25	0.78
15	Copper as Cu	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
16	Iron as Fe	mg/l	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)
17	Lead (as Pb)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
18	Manganese as Mn	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
19	Color	mg/l	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)
20	Odour	mg/l	Agreeable	Agreeable	Agreeable	Agreeable
21	Phosphorous	mg/l	BDL (<0.2)	BDL (<0.2)	BDL (<0.2)	BDL (<0.2)

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---3, Town: Sardarshahar

S.No	Parameters	Units	Town: Sardarshahar, RSTDIP/SRD/01					
			Date of Sampling: 16.01.2024					
			STP 1.6 MLD	STP 2.3 MLD South Campus	STP 3.4 MLD North Campus	PHED Campus- CWR 2400 KL	DMA 7A HDPE Pipe Laying	Pipe laying Zone 2
1	pH @ 25°C	-	7.56	7.39	7.48	7.45	7.65	7.82
2	Total Dissolved solids	mg/l	923.0	268.0	1078.0	133.5	916.0	734.0
3	Total Alkalinity	mg/l	378.0	149.32	489.23	83.54	382.0	291.0
4	Total Hardness as CaCO ₃	mg/l	326.7	143.7	398.2	128.5	315.2	285.1
5	Nitrate as NO ₃	mg/l	11.12	11.42	23.92	1.24	11.23	11.67
6	Chlorides as Cl	mg/l	280.23	63.87	312.87	22.67	281.67	182..78
7	Sulphate as SO ₄	mg/l	110.45	43.67	219.32	9.78	110.10	111.21
8	Fluorides (as F)	mg/l	0.60	0.43	0.73	0.65	0.60	0.63
9	Iron as Fe	mg/l	0.17	0.12	0.15	0.08	0.22	0.18
10	Arsenic as Ar	mg/l	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)
11	Mercury s Hg	mg/l	BDL (<0.0005)	BDL (<0.0005)	BDL (<0.0005)	BDL (<0.0005)	BDL (<0.0005)	BDL (<0.0005)
12	Lead (as Pb)	mg/l	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)
13	Cadmium as Cd	mg/l	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)
14	Copper as Cu	mg/l	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)
15	Zinc	mg/l	0.40	BDL (<0.01)	BDL (<0.01)	0.33	0.40	0.03
16	Manganese as Mn	mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
17	Phenolic Compound	mg/l	BDL (<0.0005)	BDL (<0.0005)	BDL (<0.0005)	BDL (<0.0005)	BDL (<0.0005)	BDL (<0.0005)
18	Dissolved Oxygen (DO)	mg/l	6.1	5.7	5.7	6.1	6.5	6.1
19	Phosphate as P	mg/l	0.45	BDL (<0.2)	0.44	0.45	0.52	0.30
20	Chromium (Hexavalent) as Cr ⁺⁶	mg/l	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)

BDL - Below Detectible limit

**Ground Water Quality Monitoring
Continuation Sheet ---4, Town: Sirohi**

S. No	Parameters	Units	Town: Sirohi (RSTDIP/SHR-ABR/01)			
			Date of Sampling: 13.02.2024			
			WTP 9 MLD at Angore PHED Campus	Near Workmen camp STP 5.0 MLD	1.7 MLD STP	CRMC Building
1	pH @ 25°C	-	7.42	7.53	7.31	7.38
2	Conductivity @ 25°C		1878.0	1649.0	1506.0	576.0
3	Total Dissolved solids	mg/l	1213.5	1158.10	912.23	353.0
4	Alkalinity	mg/l	216.52	289.34	215.13	88.49
5	Total Hardness as CaCO ₃	mg/l	222.32	238.6	230.49	125.69
6	Nitrate as NO ₃	mg/l	13.56	16.43	15.10	2.39
7	Chlorides as Cl	mg/l	405.34	441.49	438.64	44.75
8	Sulphate as SO ₄	mg/l	113.46	164.32	130.49	8.12
9	Calcium (as Ca)	mg/l	68.50	72.14	65.13	35.69
10	Magnesium (as Mg)	mg/l	12.49	14.24	16.52	8.90
11	Fluorides (as F)	mg/l	0.70	0.85	0.64	0.30
12	Iron as Fe	mg/l	0.19	0.14	0.14	0.16
13	Arsenic (as As)	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
14	Mercury (as Hg)	mg/l	BDL(<0.0005)	BDL(<0.0005)	BDL(<0.0005)	BDL(<0.0005)
15	Lead (as Pb)	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
16	Cadmium (as Cd)	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
17	Copper as Cu	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
18	Total Chromium as Cr)	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
19	Zinc as Zn	mg/l	0.28	0.2	0.29	0.25
20	Selenium (as Se)	mg/l	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)
21	Turbidity	NTU	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)
22	Aluminium (as Al)	mg/l	BDL(<0.005)	BDL(<0.005)	BDL(<0.005)	BDL(<0.005)
23	Manganese as Mn	mg/l	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
24	Nickel as Ni	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
25	Residual free chlorine	mg/l	BDL(<0.15)	BDL(<0.15)	BDL(<0.15)	BDL(<0.15)
26	Cyanide (as CN)	mg/l	BDL(<0.02)	BDL(<0.02)	BDL(<0.02)	BDL(<0.02)
27	Colour	Hazen	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)
28	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable
29	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable
30	Boron (as B)	mg/l	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)

BDL - Below Detectible limit

**Ground Water Quality Monitoring Results
Continuation Sheet ---5, Town: Mandawa**

S.No	Parameters	Units	Town: Mandawa (RSTDIP/MDW/03)		
			Date of Sampling: 21.03.2024		
			STP Site	CWR PHED Site	SPS Site
1	pH @ 25°C	-	7.85	7.21	7.91
2	Calcium as Ca	mg/l	51.30	57.71	72.14
3	Chlorides as Cl	mg/l	55.51	199.08	241.20
4	Fluorides (as F)	mg/l	0.33	0.52	0.50
5	Magnesium as Mg	mg/l	8.74	28.19	12.63
6	Nitrate as NO ₃	mg/l	14.97	2.09	27.26
7	Phenolic Compound	mg/l	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)
8	Sulphate as SO ₄	mg/l	31.48	86.92	96.95
9	Total Alkalinity	mg/l	392.0	493.92	439.04
10	Total Dissolved solids	mg/l	638.50	949.0	915.0
11	Total Hardness as CaCO ₃	mg/l	164.0	260.0	232.0
12	Cadmium as Cd	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
13	Copper as Cu	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
14	Iron as Fe	mg/l	0.30	0.44	0.19
15	Lead (as Pb)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
16	Manganese as Mn	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
17	Mercury as Hg	mg/l	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)
18	Zinc as Zn	mg/l	BDL (< 0.2)	BDL (< 0.2)	BDL (< 0.2)
19	Arsenic as Ar	mg/l	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)
20	Phosphate as P	mg/l	0.53	0.37	0.53
21	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)
22	Dissolved Oxygen (DO)	mg/l	4.9	5.2	5.1

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---6, Town: Abu Road

S. No	Parameters	Units	Town: Abu road (RSTDIP/SHR-ABR/01)			
			Date of Sampling: 12.02.2024			
			Manpur workman camp	Near STP & WTP Santpur	CWR Luniapura	CWR Market Area
1	pH @ 25°C	-	7.65	7.46	7.39	7.72
2	Conductivity @ 25°C		1286.0	1492.0	1363.0	1123.0
3	Total Dissolved solids	mg/l	822.0	941.0	960.0	819.0
4	Alkalinity		221.16	214.12	267.36	216.62
5	Total Hardness as CaCO ₃	mg/l	232.0	227.63	354.20	228.2
6	Nitrate as NO ₃	mg/l	17.69	14.62	12.14	18.32
7	Chlorides as Cl	mg/l	425.11	210.20	336.96	415.94
8	Sulphate as SO ₄	mg/l	132.63	122.64	132.56	122.34
9	Calcium (as Ca)	mg/l	71.95	70.59	120.85	76.94
10	Magnesium (as Mg)	mg/l	12.75	12.52	9.02	8.81
11	Fluorides (as F)	mg/l	0.72	0.79	0.75	0.69
12	Iron as Fe	mg/l	0.32	0.30	0.32	0.24
13	Arsenic (as As)	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
14	Mercury (as Hg)	mg/l	BDL(<0.0005)	BDL(<0.0005)	BDL(<0.0005)	BDL(<0.0005)
15	Lead (as Pb)	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
16	Cadmium (as Cd)	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
17	Copper as Cu	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
18	Total Chromium as Cr ⁺⁶)	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
19	Zinc as Zn	mg/l	BDL(<0.01)	0.22	0.2	BDL(<0.01)
20	Selenium (as Se)	mg/l	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)
21	Turbidity	NTU	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)
22	Aluminium (as Al)	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
23	Manganese as Mn	mg/l	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
24	Nickel as Ni	mg/l	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)	BDL(<0.002)
25	Total residual chlorine	mg/l	BDL(<0.15)	BDL(<0.15)	BDL(<0.15)	BDL(<0.15)
26	Cyanide (as CN)	mg/l	BDL(<0.02)	BDL(<0.02)	BDL(<0.02)	BDL(<0.02)
27	Colour	Hazen	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)
28	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable
29	Taste	-	Agreeable	Agreeable	Agreeable	Agreeable
30	Boron (as B)	mg/l	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---7, Town: Pratapgarh

S.No	Parameters	Units	Town: Pratapgarh (RSTDIP/PRT/01)		
			Date of Sampling: 17.03.2024		
			Near STP Main gate	Near Sewage Pump House Station	Near CRMC 1
1	pH @ 25°C	-	7.50	7.9	7.44
2	Total Dissolved solids	mg/l	793.17	991.35	939.25
3	Total Hardness as CaCO ₃	mg/l	289.94	389.92	359.93
4	Total Alkalinity	mg/l	138.6	178.20	184.81
5	Nitrate as NO ₃	mg/l	12.47	16.04	16.63
6	Chlorides as Cl	mg/l	259.89	304.88	284.89
7	Sulphate as SO ₄	mg/l	103.96	121.95	113.96
8	Iron as Fe	mg/l	0.03	0.08	0.06
9	Fluorides (as F)	mg/l	0.09	0.15	0.12
10	Zinc as Zn	mg/l	BDL	BDL	BDL
11	Copper as Cu	mg/l	BDL	BDL	BDL
12	Manganese as Mn	mg/l	BDL	BDL	BDL
13	Mercury as Hg	mg/l	BDL	BDL	BDL
14	Cadmium as Cd	mg/l	BDL	BDL	BDL
15	Arsenic as Ar	mg/l	BDL	BDL	BDL
16	Lead (as Pb)	mg/l	BDL	BDL	BDL
17	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL	BDL	BDL
18	Dissolved Oxygen (DO)	mg/l	7.12	6.98	6.56
19	Phosphate as P	mg/l	BDL	BDL	BDL
20	Phenolic Compound	mg/l	BDL	BDL	BDL

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---8, Town: Ladnu, Didwana & Makrana

S. No	Parameters	Units	RSTDIP/LDN-DID-MKN/01		
			Date of Sampling: 27.03.2024	Date of Sampling: 28.03.2024	Date of Sampling: 29.03.2024
			Pipe Laying Site Near Sensitive Area (Guest House, Janta Colony), Ladnu	STP 3.0 MLD (Maila Maidan), Didwana	STP 7.7 MLD (Calanada), Makrana
1	pH @ 25°C	-	7.34	7.13	6.97
2	Turbidity	NTU	BDL < 1.0	BDL < 1.0	BDL < 1.0
3	Total Dissolved solids	mg/l	189.0	167.0	176.0
4	Alkalinity	mg/l	57.41	44.82	38.79
5	Total Hardness as CaCO ₃	mg/l	124.74	118.80	132.66
6	Chlorides as Cl	mg/l	26.94	21.47	31.60
7	Calcium (as Ca)	mg/l	31.74	26.98	32.54
8	Magnesium (as Mg)	mg/l	11.09	12.54	12.53
9	Nitrate as NO ₃	mg/l	3.17	3.04	2.88
10	Sulphate as SO ₄	mg/l	19.78	17.61	24.51
11	Fluorides (as F)	mg/l	BDL	BDL	BDL
12	Iron as Fe	mg/l	BDL	BDL	BDL
13	Free Residual Chlorine	mg/l	BDL	BDL	BDL
14	Total Chromium as Cr ⁺⁶)	mg/l	BDL	BDL	BDL
15	Aluminium (as Al)	mg/l	BDL	BDL	BDL
16	Boron (as B)	mg/l	BDL	BDL	BDL
17	Copper as Cu	mg/l	BDL	BDL	BDL
18	Lead (as Pb)	mg/l	BDL	BDL	BDL
19	Zinc as Zn	mg/l	BDL	BDL	BDL
20	Mercury (as Hg)	mg/l	BDL	BDL	BDL
21	Cadmium (as Cd)	mg/l	BDL	BDL	BDL
22	Manganese as Mn	mg/l	BDL	BDL	BDL
23	Selenium (as Se)	mg/l	BDL	BDL	BDL
24	Silver as Ag	mg/l	BDL	BDL	BDL
25	Cyanide (as CN)	mg/l	BDL	BDL	BDL
26	Nickel as Ni	mg/l	BDL	BDL	BDL
27	Arsenic (as As)	mg/l	BDL	BDL	BDL
28	Phenolic Compound (C ₆ H ₅ OH)	mg/l	BDL	BDL	BDL
29	Colour	Hazen	BDL(<5.0)	BDL(<5.0)	BDL(<5.0)
30	Odour	-	Agreeable	Agreeable	Agreeable
31	Taste	-	Agreeable	Agreeable	Agreeable

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---9, Town: Khetri

S.No	Parameters	Units	Town: Khetri (RSTDIP/KTR/03)		
			Date of Sampling: 16.03.2024		
			STP Construction Site	Construction Site JEN Campus	Construction Site AEN Campus
1	pH @ 25°C	-	7.46	7.10	7.41
2	Total Dissolved solids	mg/l	465.0	480.0	180.0
3	Total Hardness as CaCO ₃	mg/l	316.0	320.0	176.0
4	Calcium as Ca	mg/l	58.14	65.24	34.24
5	Magnesium as Mg	mg/l	36.20	35.24	18.30
6	Chlorides as Cl	mg/l	137.98	145.98	47.98
7	Fluorides (as F)	mg/l	0.73	0.62	0.30
8	Sulphate as SO ₄	mg/l	62.35	67.28	24.36
9	Nitrate as NO ₃	mg/l	24.30	25.10	14.10
10	Total Alkalinity	mg/l	235.0	250.0	130.0
11	Iron as Fe	mg/l	0.15	0.11	0.09
12	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL(<0.03)	BDL(<0.03)	BDL(<0.03)
13	Dissolved Oxygen (DO)	mg/l	5.3	6.6	5.2
14	Phenolic Compound	mg/l	BDL	BDL	BDL
15	Phosphate as P	mg/l	BDL	BDL	BDL
16	Arsenic as Ar	mg/l	BDL	BDL	BDL
17	Cadmium as Cd	mg/l	BDL	BDL	BDL
18	Copper as Cu	mg/l	0.13	0.12	0.11
19	Lead (as Pb)	mg/l	BDL	BDL	BDL
20	Manganese as Mn	mg/l	BDL	BDL	BDL
21	Zinc as Zn	mg/l	0.30	0.26	0.20
22	Mercury as Hg	mg/l	BDL	BDL	BDL

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---10, Town: FSTP Sub Project Towns (04 Towns)

S.No	Parameters	Units	RSTDSP / NKT –SHR – BAN –JOB / 01		
			FSTP Site, Jobner	FSTP Site, Bandi Kui	FSTP Site, Neem Ka Thana
			Date of Sampling: 25.03.2024	Date of Sampling: 23.03.2024	Date of Sampling: 26.03.2024
1	pH @ 25°C	-	7.32	7.20	7.10
2	Total Hardness as CaCO ₃	mg/l	170.0	154.0	242.0
3	Sulphate as SO ₄	mg/l	12.6	9.6	34.1
4	Chlorides as Cl	mg/l	90.0	88.0	106.0
5	Fluorides (as F)	mg/l	0.57	0.51	0.60
6	Total Dissolved solids	mg/l	422.0	392.0	486.0
7	Total Alkalinity	mg/l	182.0	168.0	165.0
8	Calcium as Ca	mg/l	20.8	17.6	27.2
9	Magnesium as Mg	mg/l	28.67	26.73	42.28
10	Zinc as Zn	mg/l	0.041	0.035	0.031
11	Copper as Cu	mg/l	0.019	0.018	0.022
12	Manganese as Mn	mg/l	0.023	0.015	0.016
13	Nitrate as NO ₃	mg/l	5.14	4.94	4.74
14	Mercury as Hg	mg/l	BDL	BDL	BDL
15	Cadmium as Cd	mg/l	BDL	BDL	BDL
16	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL	BDL	BDL
17	Phosphate as P	mg/l	0.037	0.05	0.030
18	Lead (as Pb)	mg/l	BDL	BDL	BDL
19	Arsenic as Ar	mg/l	0.004	0.006	0.0024
20	Phenolic Compound	mg/l	0.0015	0.003	0.0015
21	Iron as Fe	mg/l	0.020	0.02	0.04
22	Dissolved Oxygen (DO)	mg/l	3.0	4.4	2.7

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---11, Town: FSTP Sub Project Towns (09 Towns)

S.No	Parameters	Units	RSTDSP/FSTP-9Towns/03				
			FSTP Site Bari Town	FSTP Site Bhawani Mandi Town	FSTP Site Dausa Town	FSTP Site Deeg Town	FSTP Site Tijara Town
			Date of Sampling: 21.03.2024	Date of Sampling: 22.03.2024	Date of Sampling: 19.03.2024	Date of Sampling: 20.03.2024	Date of Sampling: 21.03.2024
1	pH @ 25°C	-	7.45	8.11	7.01	7.12	8.01
2	Calcium as Ca	mg/l	62.52	163.52	43.28	121.84	48.09
3	Chlorides as Cl	mg/l	40.20	273.74	241.20	484.31	30.62
4	Fluorides (as F)	mg/l	1.05	0.47	0.77	0.94	0.38
5	Magnesium as Mg	mg/l	43.74	13.61	60.26	14.58	15.55
6	Nitrate as NO ₃	mg/l	2.15	9.13	1.07	1.31	1.98
7	Phenolic Compound	mg/l	BDL (< 0.10)	BDL (< 0.10)	BDL (< 0.10)	BDL (< 0.10)	BDL (< 0.10)
8	Sulphate as SO ₄	mg/l	11.96	15.05	52.39	117.50	13.30
9	Total Alkalinity	mg/l	427.28	333.20	490.0	348.88	254.80
10	Total Dissolved solids	mg/l	544.0	746.0	1055.0	1083.50	470.60
11	Total Hardness as CaCO ₃	mg/l	336.0	464.0	356.0	364.0	184.0
12	Cadmium as Cd	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
13	Copper as Cu	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
14	Iron as Fe	mg/l	0.20	0.18	0.21	0.24	0.28
15	Lead (as Pb)	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
16	Manganese as Mn	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
17	Mercury s Hg	mg/l	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)
18	Zinc	mg/l	BDL (< 0.20)	BDL (< 0.20)	BDL (< 0.20)	BDL (< 0.20)	BDL (< 0.20)
19	Arsenic as Ar	mg/l	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)
20	Phosphate	mg/l	1.39	0.67	0.42	0.84	1.02
21	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)
22	Dissolved Oxygen (DO)	mg/l	5.1	4.6	5.6	6.9	6.8

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---12, Town: FSTP Sub Project Towns (09 Towns)

S.No	Parameters	Units	RSTDSP/FSTP-9Towns/03			
			FSTP Site Bhinder – Kanode Town	FSTP Site Shahpura (Bhilwara) Town	FSTP Site Gangapur (Bhilwara) Town	FSTP Site Pilibanga- Suratgarh Town
			Date of Sampling: 24.03.2024	Date of Sampling: 22.03.2024	Date of Sampling: 16.12.2023	Date of Sampling: 19.03.2024
1	pH @ 25°C	-	7.91	8.01	7.61	7.91
2	Calcium as Ca	mg/l	75.35	227.65	128.25	76.95
3	Chlorides as Cl	mg/l	21.05	746.57	484.31	216.31
4	Fluorides (as F)	mg/l	0.25	2.38	0.94	0.54
5	Magnesium as Mg	mg/l	8.74	44.22	18.47	3.89
6	Nitrate as NO ₃	mg/l	0.51	1.74	2.39	2.39
7	Phenolic Compound	mg/l	BDL (< 0.10)	BDL (< 0.10)	BDL (< 0.10)	BDL (< 0.10)
8	Sulphate as SO ₄	mg/l	7.35	192.58	59.01	47.66
9	Total Alkalinity	mg/l	317.52	348.88	411.60	450.80
10	Total Dissolved solids	mg/l	655.0	1208.0	1100.0	711.86
11	Total Hardness as CaCO ₃	mg/l	224.0	750.0	396.0	208.0
12	Cadmium as Cd	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
13	Copper as Cu	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
14	Iron as Fe	mg/l	0.23	0.20	0.31	0.18
15	Lead (as Pb)	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
16	Manganese as Mn	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
17	Mercury s Hg	mg/l	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)
18	Zinc	mg/l	BDL (< 0.20)	BDL (< 0.20)	BDL (< 0.20)	BDL (< 0.20)
19	Arsenic as Ar	mg/l	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)
20	Phosphate	mg/l	0.56	0.62	0.33	0.39
21	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)
22	Dissolved Oxygen (DO)	mg/l	4.1	6.4	6.8	6.2

BDL - Below Detectible limit

Surface Water Quality Monitoring Results
Town: Pratapgarh & Didwana

S.No	Parameters	Units	Town: Pratapgarh (RSTDIP/PRT/01)			Town: Didwana (RSTDIP/LDN-DID-MKN/01)
			Date of Sampling: 17.03.2024			Date of Sampling: 28.03.2024
			Near STP	Near Sewage Pump House	Near CRMC 1	Near 3 MLD STP Site (Mela Maidan), Didwana
1	pH @ 25°C	-	7.35	7.72	7.18	9.48
2	Turbidity	NTU	BDL < 5	BDL < 5	BDL < 5	9.30
3	Total Dissolved solids	mg/l	1058.28	452.25	484.48	3470.0
4	Total Suspended solids	mg/l	32.68	10.30	12.36	37.0
5	Chlorides as Cl	mg/l	229.91	94.96	159.94	1187.52
6	Fluorides (as F)	mg/l	0.14	0.09	0.12	1.89
7	Sulphate as SO ₄	mg/l	91.96	37.98	63.97	176.47
8	Nitrate as NO ₃	mg/l	35.64	36.73	6.53	11.06
9	Iron as Fe	mg/l	0.04	0.04	0.04	0.62
10	Total Hardness as CaCO ₃	mg/l	339.93	179.96	179.96	140.58
11	Calcium (as Ca)	mg/l	88.18	52.10	28.06	24.60
12	Magnesium (as Mg)	mg/l	61.18	31.07	36.91	19.29
13	Sodium (as Na)	mg/l	118.80	41.58	21.78	1369.25
14	Potassium (as K)	mg/l	53.46	18.71	9.80	177.31
15	Zinc as Zn	mg/l	0.09	0.08	0.09	0.09
16	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL	BDL	BDL	BDL
17	Copper as Cu	mg/l	0.06	0.09	0.08	BDL
18	Manganese as Mn	mg/l	BDL	BDL	BDL	BDL
19	Aluminium as Al	mg/l	BDL	BDL	BDL	BDL
20	Arsenic as Ar	mg/l	BDL	BDL	BDL	BDL
21	Boron as B	mg/l	BDL	BDL	BDL	BDL
22	Lead (as Pb)	mg/l	BDL	BDL	BDL	BDL
23	Cadmium as Cd	mg/l	BDL	BDL	BDL	BDL
24	Mercury as Hg	mg/l	BDL	BDL	BDL	BDL
25	Total Residual Chlorine	mg/l	BDL	BDL	BDL	BDL
26	Dissolved Oxygen (DO)	mg/l	5.90	4.52	4.02	5.2
27	Biochemical Oxygen demand (BOD) 3 days @ 25° C	mg/l	12.30	20.45	45.16	58.0
28	Chemical Oxygen demand	mg/l	48.40	96.80	193.6	182.0
29	Cyanide as CN	mg/l	BDL	BDL	BDL	BDL
30	Selenium as Se	mg/l	BDL	BDL	BDL	BDL

BDL - Below Detectible limit

Soil Quality Monitoring Results
Town: Fatehpur

Sr. No	Parameters	Unit of Measurements	Town: Fatehpur (RSTDIP/RTG-FTP-LXG/01)				
			Date of Sampling: 27.12.2023				
			At Nawalgarh Railway Station	At Behind Dholi Sati Temple SPS 3.5 MLD	At naribari Road STP 4.3 MLD	At Workman Camp, Bikaner Puliya	0.6 MLD
1	pH (at 25°C)	-	7.89	7.35	7.45	8.21	7.48
2	Bulk Density	Gm/cc	1.29	1.37	1.40	1.42	1.35
3	Available Phosphorus	Kg/ha	40.25	38.45	42.36	43.69	36.40
4	Potassium as K	Kg/ha	110.12	135.63	129.23	148.20	125.74
5	Electrical Conductivity	mS/cm	0.310	0.370	0.321	0.325	0.305
6	Calcium as Ca	mg/kg	160.23	175.20	129.41	110.45	155.36
7	Magnesium as Mg	mg/kg	50.89	35.63	65.36	48.63	48.78
8	Organic Matter	%	0.48	0.70	0.36	0.40	0.39
9	Soil Moisture	%	2.10	2.30	2.45	1.96	2.14
10	Sodium as Na	mg/kg	62.14	58.74	92.78	85.26	57.10
11	Chloride	mg/kg	130.89	165.36	131.41	98.74	116.36
12	Total Kjeldhal Nitrogen as TKN	mg/kg	135.78	116.20	116.36	105.25	128.42
13	Soil Texture	-	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam

BDL - Below Detectible limit

Soil Quality Monitoring Results
Continuation Sheet ---2, Town: Ratangarh

Sr.No	Parameters	Unit of Measurements	Town : Ratangarh (RSTDIP/RTG-FTP-LXG/01)				
			Date of Sampling: 25.12.2023				
			STP3.8 MLD	STP 6.1 MLD	SPS 4.6 MLD	SPS3.8 MLD	Labour Camp
1	pH (at 25°C)	-	7.89	8.01	8.10	7.78	8.20
2	Bulk density	Gm/cc	1.37	1.48	1.36	1.32	1.29
3	Available Phosphorus	Kg/ha	30.78	32.96	32.40	25.47	25.63
4	Potassium (as K)	Kg/ha	168.25	151.74	140.25	168.52	130.78
5	Electrical conductivity	mS/cm	0.321	0.378	0.284	0.345	0.345
6	Calcium (as Ca)	mg/kg	140.78	540.25	526.36	709.36	610.78
7	Magnesium (as Mg)	mg/kg	52.89	65.20	40.85	48.25	50.63
8	Organic matter	%	0.52	0.42	0.70	0.58	0.68
9	Moisture content	%	1.14	1.89	3.04	2.14	2.10
10	Sodium (as Na)	mg/kg	85.96	75.85	81.78	72.56	70.85
11	Chloride	mg/kg	156.78	190.36	210.85	158.74	150.36
12	Total Kjeldhal Nitrogen (as	mg/kg	98.78	140.78	190.45	162.47	170.32
13	Specific Gravity	-	1.48	2.05	2.63	2.56	2.60
14	Soil texture	-	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam

BDL - Below Detectible limit

Soil Quality Monitoring Results
Continuation Sheet ---3, Town: Sardarshahar

Sr.No	Parameters	Unit of Measurements	Town: Sardarshahar (RSTDIP/SRD/01)					
			Date of Sampling : 17.01.2024					
			STP 1.6 MLD	STP 2.3 MLD South Campus	STP 3.4 MLD North Campus	PHED Campus-CWR 2400 KL	DMA 7A HDPE Pipe Laying	Pipe laying location Zone 2
1	pH (at 25°C)	-	8.26	8.13	8.32	7.76	7.67	8.13
2	Electrical Conductivity	mS/cm	0.403	0.372	0.385	0.423	0.435	0.270
3	Calcium (as Ca)	mg/kg	150.6	130.65	150.23	150.23	150.1	120.1
4	Magnesium (as Mg)	mg/kg	100.1	95.26	94.92	92.98	100.1	74.23
5	Sodium (as Na)	mg/kg	85.43	91.01	100.61	84.25	80.23	81.1
6	Potassium (as K)	Kg/hect.	160.73	166.7	152.30	158.21	160.23	153.0
7	Organic Carbon	%	0.50	0.50	0.50	0.48	0.54	0.50
8	Soil Texture	-	Sandy loam	Sandy loam	Sandy loam	Sandy loam	Sandy loam	Sandy loam
9	Total Nitrogen (as N)	Kg/hect.	367.2	335.72	352.90	367.1	360.1	342.1
10	Phosphate	Kg/hect.	34.89	34.01	30.70	37.21	30.43	30.0
11	Moisture content	%	4.44	8.61	4.64	5.60	4.80	3.85
12	Permeability	cm/S	0.0007	0.002	0.0006	0.0009	0.0004	0.0007
13	Oil & Grease	mg/kg	6.41	7.30	6.56	6.56	5.35	5.29

BDL - Below Detectible limit

Soil Quality Monitoring Results
Continuation Sheet ---4, Town: Abu Road Sub Project Town

Sr. No	Parameters	Unit of Measurements	Town: Abu Road (RSTDIP/SHR-ABR/01)			
			Date of Sampling: 12.02.2024			
			CWR Market Area	Manpur Workmen Camp	Near STP & WTP Santpur	Luniapura CWR
1	pH (at 25°C)	-	7.56	7.55	7.32	7.71
2	Electrical Conductivity	mS/cm	0.385	0.362	0.360	0.355
3	Soil Texture	-	Sandy	Sandy	Sandy	Sandy
4	Calcium (as Ca)	mg/kg	385.63	437.63	392.32	414.36
5	Sodium (as Na)	mg/kg	77.24	74.56	85.13	75.49
6	Potassium (as K)	mg/kg	164.36	175.79	170.49	155.23
7	Organic Matter	%	0.65	0.60	0.55	0.55
8	Magnesium (as Mg)	mg/kg	83.46	84.23	80.43	74.79
9	Available Nitrogen (as N)	Kg/hect.	243.94	270.75	255.76	260.32
10	Phosphate	mg/kg	21.63	23.32	18.49	18.49
11	Moisture content	%	3.15	3.10	3.81	3.48
12	Permeability	cm/S	0.0007	0.0009	0.0008	0.0007
13	Oil & Grease	mg/kg	BDL (< 5.0)	BDL (< 5.0)	BDL (< 5.0)	BDL (< 5.0)

BDL - Below Detectible limit

Soil Quality Monitoring Results
Continuation Sheet ---5, Town: Sirohi Sub Project Town

Sr. No	Parameters	Unit of Measurements	Town: Sirohi (RSTDIP/SHR-ABR/01)			
			Date of Sampling: 13.02.2024			
			WTP 9 MLD at Angore PHED Campus	Near Workmen camp (STP 5.0 MLD)	Kalka Ji Pump House	CRMC Building
1	pH (at 25°C)	-	7.63	7.83	7.85	7.91
2	Electrical Conductivity	mS/cm	0.342	0.381	0.406	0.390
3	Calcium as Ca	mg/kg	423.65	390.31	403.13	382.32
4	Magnesium as Mg	mg/kg	77.19	65.62	70.42	75.49
5	Sodium as Na	mg/kg	67.32	60.23	64.63	77.36
6	Potassium as K	Kg/ha	190.13	158.10	155.49	150.79
7	Organic Matter	%	0.65	0.62	0.62	0.65
8	Soil Texture	-	Sandy	Sandy	Sandy	Sandy
9	Availbale Nitrogen as N	Kg/ha	313.52	255.34	258.37	270.0
10	Phosphate	mg/kg	24.10	22.85	21.46	21.37
11	Soil Moisture	%	3.80	2.41	2.42	2.18
12	Permeability	Cm/S	0.0008	0.0010	0.0008	0.0007
13	Oil & Grease	mg/kg	BDL (< 5.0)	BDL (< 5.0)	BDL (< 5.0)	BDL (< 5.0)

BDL - Below Detectible limit

Soil Quality Monitoring Results
Continuation Sheet ---6, Town: Mandawa Sub Project Town

Sr. No	Parameters	Unit of Measurements	Town: Mandawa (RSTDIP/MDW/03)		
			Date of Sampling: 21.03.2024		
			SPS Site	CWR PHED Site	STP Site
1	pH (at 25°C)	-	8.01	7.91	7.35
2	Available Nitrogen (as N)	Kg/hect.	122.93	233.27	208.97
3	Potassium (as K)	Kg/hect.	221.47	295.59	335.95
4	Electrical Conductivity	mS/cm	0.395	0.465	0.415
5	Calcium (as Ca)	mg/kg	48.04	48.06	64.12
6	Magnesium (as Mg)	mg/kg	32.06	40.84	33.07
7	Organic Matter	%	0.64	0.74	0.98
8	Soil Moisture content	%	0.30	1.14	1.10
9	Sodium (as Na)	mg/kg	41.94	42.98	41.99
10	Soil Texture	-	Sandy Loam	Sandy Loam	Sandy Loam
11	Permeability	cm/S	0.007	0.009	0.008
12	Oil & Grease	mg/kg	BDL (< 5.0)	BDL (< 5.0)	BDL (< 5.0)
13	Phosphate	Kg/hect.	27.40	48.20	46.85

BDL - Below Detectible limit

Soil Quality Monitoring Results
Continuation Sheet ---7, Town: Khetri Sub Project Town

Sr. No	Parameters	Unit of Measurements	Town: Khetri (RSTDIP/KTR/03)		
			Date of Sampling: 16.03.2024		
			STP Construction Site	Construction Site JEn Campus	Construction Site AEn Campus
1	pH	-	7.95	7.82	7.60
2	Electrical Conductivity	mS/cm	0.194	0.170	0.160
3	Soil Texture	-	Sandy	Sandy	Sandy
4	Moisture content	%	0.44	0.36	0.38
5	Calcium Carbonate	%	15.36	11.26	8.69
6	Bulk Density	gm/cc	1.46	1.38	1.32
7	Magnesium (as Mg)	mg/kg	34.20	32.14	27.30
8	Calcium (as Ca)	mg/kg	80.0	71.26	68.20
9	Organic Matter	%	0.34	0.34	0.32
10	Sodium (as Na)	mg/kg	12.1	13.20	16.20
11	Potassium (as K)	mg/kg	90.3	85.10	82.10
12	Total Kjeldhal Nitrogen (as TKN)	%	0.04	0.04	0.03
13	Phosphorous as P	kg/ha	10.20	12.80	11.10
14	Oil & Grease	mg/kg	2.0	2.0	1.0
15	Permeability	cm/S	0.03	0.01	0.02

BDL - Below Detectible limit

Soil Quality Monitoring Results
Continuation Sheet ---8, Town: Pratapgarh Sub Project Town

Sr. No	Parameters	Unit of Measurements	Town: Pratapgarh (RSTDIP/PRT/01)		
			Date of Sampling: 17.03.2024		
			Near STP	Near Sewage Pump Station (SPS)	Near CRMC 1
1	pH (at 25°C)	-	7.89	7.98	8.10
2	Electrical Conductivity	µS/cm	662	518	502
3	Moisture content	%	19.85	17.89	15.46
4	Total Nitrogen (as N)	%	0.06	0.07	0.05
5	Sodium (as Na)	mg/kg	119.86	137.89	136.96
6	Potassium (as K)	mg/kg	65.45	73.63	82.23
7	Organic Matter	%	4.12	4.54	5.23
8	Calcium (as Ca)	mg/kg	47.32	55.85	31.25
9	Magnesium (as Mg)	mg/kg	3.21	23.65	4.08
10	Phosphorous as P	mg/kg	67.84	41.23	66.96
11	Oil & Grease	mg/kg	BDL	BDL	BDL
12	Permeability	cm/hr	7.89	7.36	10.32
13	Soil Texture	-	Sandy Loam	Sandy Loam	Sandy Loam
	Sand	%	72.30	75.63	68.51
	Slit	%	16.50	14.52	16.32
	Clay	%	11.20	9.85	15.17

BDL - Below Detectible limit

Soil Quality Monitoring Results
Continuation Sheet ---9, Town: Ladnu, Didwana & Makrana Sub Project Town

Sr. No	Parameters	Unit of Measurements	RSTDIP/LDN-DID-MKN/01							
			Town: Didwana			Town: Ladnu		Town: Makrana		
			Date of Sampling: 28.03.2024			Date of Sampling: 27.03.2024		Date of Sampling: 29.03.2024		
			STP 3 MLD Mela Maidan	SPS 1.3 MLD Choti Devi School	SPS 1.7 MLD Site Salt road	STP-1, 5.5 MLD Site Asota Village	STP- 2, 2.4 MLD Site Chipoli	STP 7.7 MLD Calananda	SPS 2.3 MLD Site Jhalatalav	SPS 2.1 MLD Site Matavar
1	pH (at 25°C)	-	8.92	9.11	8.64	8.73	8.21	8.13	8.79	8.31
2	Electrical Conductivity	mS/cm	0.49	0.38	0.32	0.26	0.38	0.26	0.34	0.29
3	Soil Moisture	%	2.38	1.67	8.43	1.24	1.84	0.89	0.86	0.76
4	Organic Matter	%	0.39	0.48	0.37	0.74	0.88	0.46	0.56	0.56
5	Sodium as Na	mg/kg	21.0	17.34	12.58	54.81	54.81	61.37	22.48	43.82
6	Calcium as Ca	mg/kg	1453.29	1761.0	1627.10	642.28	843.59	766.91	1174.35	812.70
7	Magnesium as Mg	mg/kg	312.57	273.42	318.47	253.91	278.14	257.16	286.47	258.06
8	Phosphorus	mg/kg	32.41	27.89	23.86	34.79	21.62	47.20	57.31	34.57
9	Bulk Density (Compact)	gm/ml	1.56	1.52	1.62	1.54	1.51	1.52	1.53	1.56
10	Permeability	Cm/hr	3.0	5.0	8.0	3.00	6.0	5.0	3.0	4.0
11	Total Kjeldhal Nitrogen as N	mg/kg	226.85	211.94	237.66	221.49	207.39	246.08	211.08	198.33
13	Soil Texture (a) Sand	%	78.46	74.28	83.41	61.52	76.48	73.68	67.04	67.40
14	(b) Silt	%	9.38	14.36	10.56	15.32	14.82	12.59	15.38	16.83
15	(c) Clay	%	12.16	11.36	6.03	23.16	8.70	13.73	17.58	15.77

Soil Quality Monitoring Results
Continuation Sheet ---10, Town: FSTP Sub Project Town

Sr. No	Parameters	Unit of Measurements	RSTDSP/FSTP-9Towns/03								
			FSTP Site Bari Town	FSTP Site Bhawani Mandi Town	FSTP Site Dausa Town	FSTP Site Deeg Town	FSTP Site Tijara Town	FSTP Site Bhinder – Kanode Town	FSTP Site Shahpura (Bhilwara) Town	FSTP Site Gangapur (Bhilwara) Town	FSTP Site Pilibanga Town
			Date of Sampling: 21.03.2024	Date of Sampling: 22.03.2024	Date of Sampling: 19.03.2024	Date of Sampling: 20.03.2024	Date of Sampling: 21.03.2024	Date of Sampling: 22.03.2024	Date of Sampling: 22.03.2024	Date of Sampling: 21.03.2024	Date of Sampling: 19.03.2024
1	pH (at 25°C)	-	7.95	8.12	7.11	8.21	7.85	8.11	8.01	7.35	8.21
2	Available Nitrogen	Kg/ha	122.92	134.99	122.85	158.49	184.33	196.44	122.77	122.89	159.66
3	Potassium (as K)	Kg/ha	190.38	228.41	199.29	199.30	94.06	188.10	179.08	183.45	183.44
4	Electrical Conductivity	mS/cm	0.375	0.516	0.315	0.415	0.154	0.541	0.652	0.375	0.425
5	Calcium (as Ca)	mg/kg	120.23	56.10	104.16	120.16	152.11	240.17	136.27	200.13	128.08
6	Magnesium (as Mg)	mg/kg	32.08	5.83	25.27	23.81	26.24	34.0	30.11	34.04	29.16
7	Organic Matter	%	0.78	0.49	0.68	0.73	0.97	0.68	0.78	0.68	0.73
8	Soil Moisture	%	7.81	0.89	2.70	1.79	1.39	1.76	0.50	4.07	1.12
9	Sodium (as Na)	mg/kg	53.99	61.98	60.98	49.98	51.99	47.98	60.92	49.93	52.93
10	Soil Texture	-	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
11	Permeability	cm/S	0.005	0.006	0.007	0.009	0.004	0.005	0.009	0.007	0.006
12	Oil & Grease	mg/kg	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)
13	Phosphate	Kg/ha	1.93	3.95	0.85	3.29	8.75	12.10	13.95	0.94	0.87

BDL - Below Detectible limit

APPENDIX 12: LETTER FROM PMU TO ESTABLISH GRM IN ALL PIUs

RUIDS Government of Rajasthan
Office of Project Director
Rajasthan Urban Infrastructure Development Project (Unit of RUDSICO)
AVS Building, Jawahar Circle, JLN Marg, Jaipur - 302017
Tel No.: 0141-2721900, Fax No.: 0141-2721919
email: mailruidp@gmail.com, mailruidp@rajasthan.gov.in web site: -https://urban.rajasthan.gov.in/ruidp
No. F3 (301) (60)/RUIDP/PMU/PH-IV/ ADB S. Safeguard /Gen adm./2020-21/1364 Date: 18/12/2020

Suprintending Engineer/Executive Engineer
PIU- Abu Road, Sirohi, Ratangarh,
Fatehpur, Laxmangarh, Sardarsar, Kuchaman, Ladnu, Mokrasa, Didwana, Khetri, Mandawa, Pratapgarh and Banswara.

Subject:- Nomination of Safeguard and Safety Officer (SSO) of each PIUs for proper monitoring of Environmental and Resettlement issues and addressing of safeguard related Grievances through Grievance Redress Mechanism.

Reference:- Agreed Environmental Resettlement framework and EARF of RSTDSP.

All PIUs are directed to issue an office order to nominate one engineer from PIU to work as Safeguard and Safety Officer (SSO). It will be additional responsibility of Safeguard and Safety Officer (SSO), PIU to ensure day to day monitoring of implementation of Environmental Management and Monitoring Plan (EMMP) provisions, Implementation & Monitoring Resettlement Plan (RP) and ADB Safeguard Policy & Safety compliance in concern town.

Further it is directed that all the PIU should maintain proper separate records of safeguard related Grievances received in their town and ensure that the safeguard related Grievances received are resolved as per Grievance Redress Mechanism (GRM) prescribed in EARF/RF which is summarized as under (for ready reference)

Methodology of multi-tier GRM	Responsibility/Action to be taken	Time Frame	Record Keeping
1st level: Grievances that are immediate and urgent in the perception of the complainant, the contractor, and supervision personnel from PIU and CMSC on-site will provide the most easily accessible or first level of contact for quick resolution of grievances	EE PIU will resolve issues in consultation with supervision personnel (ACM), Safeguard and Safety Officer (SSO) PIU, Contractor, and Safeguard staff of CMSC. If required, city level monitoring committee (CLMC) will be involved in resolution of grievances at the 1st level.	PIU will resolve issues within 7 days of receipt of a complaint/ grievance.	Safeguard Support of CMSC will oversee the matters and prioritize / follow up the issues with PIU/Contractor. Safeguard and Safety Officer of PIUs, Safeguard Support of CMSC will record Grievances timely in the format enclosed as Annexure 1. Contractory Safeguard Support of CMSC will enter the general Grievance received (in a summarized manner) in Grievance Register (format enclosed as Annexure 2) on receipt from public forwarded to head of PIU or Safeguard and Safety Officer (SSO) for resolve in time and provide summarized information as and when required. The grievance register will be endorsed by all field agencies involved in implementation of EMP and

shp
21/12/20

Project Management and Capacity Building
Consultancy (PMCB) RSTDSP (RUIDP V)

Received by 21/12/2020		Forward No 1000	
TL	DTL/EE	CMSC	SSO
GRMS	EE	PE	SSO
PC	EE	PE	SSO
CS	PE	EE	SSO
PC	CM	EE	SSO

Methodology of multi-tier GRM	Responsibility/Action to be taken	Time Frame	Record Keeping
			RP.
2nd level: All grievances that cannot be redressed within 7 days at field/PIU level will be brought to the notice of Zonal PIU headed by Additional Chief Engineer (ACE).	The ACE at zonal PIU will resolve issues in consultation with SE/EE PIU, assistant safeguard officer (ASO), field level PIU, CMSC, and the contractor.	The ACE at zonal PIU will resolve the grievance within 7 days of receipt of complaint/grievance.	Environmental and Social Safeguards Personal of CMSC will keep all the records referred to zonal PIU and after completion, all the details will be submitted to PMU.
3rd level: All the grievances that are not addressed by Zonal PIU within 7 days of receipt will be brought to the notice of the PMU.	Project Officer (Social/Environment) at PMU will resolve the grievance with necessary coordination of Zonal PIU and CMSC and guidance/instruction of additional project director (APO-PMU).	PMU will resolve the grievance within 15 days of receipt of grievance.	Safeguard Support of PMCBC will keep all the records referred to PMU.
4th level: Grievances not redressed through this process within/at the project level within stipulated time period will be referred to the CLC/grievance redress committee (GRC).	Zonal PIU will inform the CLC regarding any grievances required to be resolved urgently.	The GRC will resolve the grievance within 15 days of receiving the complaint.	Environmental and Social Safeguards Personal of CMSC will keep all the records.
Please note that an aggrieved person shall have access to the country's legal system at any stage, and accessing the country's legal system can run parallel to accessing the GRM and is not dependent on the negative outcome of the GRM.			

PIU Safeguard and Safety Officer (SSO) will monitor the entire process and all decisions taken by the PIU, zonal officers, PMU and GRC and will be communicated to the APs by Safeguard Support of CMSC.

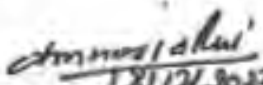
It is also directed that names and contact number of the concerned Safeguard and Safety Officer (SSO) of PIU, contractors, safeguard support staff of CMSC will be posted at all construction sites at visible locations.

All PIUs will ensure timely issuance of order with a copy to Project Officer (Social & Environment), PMU. Further PIUs will be responsible to ensure redressal of grievances as per GRM procedures summarized above.


Chief Engineer, RUIDP

No. F3 (301) (00Y/RUIDP/PMU/PH-IV/ Social Safeguard/General Adm./2020-21/ Date: 18/12/2020
Copy to the following for information and necessary action please:- 18568-70

1. ACE-I & II Phase-IV, RUIDP zone Jaipur & Jodhpur
2. TL, PMCBC, Phase-IV, RUIDP
3. TL CMSC-01/02 Phase-IV, RUIDP zone Jaipur & Jodhpur


18/12/2020
(K. M. Mandawala)
PO (Co-ord. & Social)

APPENDIX 13: ACCIDENT, INCIDENT, NEAR MISS AND FIRST AID CASES IN PROJECT TOWNS DURING OCTOBER 2023 TO MARCH 2024 PERIOD
Report on Accident/Incident/near miss/First aid cases

1. Town: Abu Road

Contractor: Larsen & Toubro Construction Limited (L&T)

Duration: 1st October 2023 to 31st March 2024

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	1
February 2024	0	0	0	0
March 2024	1	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	1	The incident occurred at location between manhole no. 2162 and 2164 where trenchless work was done in December, 2023 but link joining was left. The work for link joining was started on 12.03.2024 night at about 10-11 without prior information to CMSC-II and PIU. Seven labors and one supervisor were working on the site On 13.03.2023 morning at about 5.45 am when link joining work was on completion, accident occurred suddenly due to the seepage e, loose soil and sudden fall of excavated soil over the workers and 4 nos. working labors were buried under the collapsed soil.	As soon as the accident occurred, remaining three works sought for help and police and rescue was called immediately. Labors were taken out from the trench and all the four labors were taken by two ambulances to nearby government hospital in Abu Road for emergency medical treatment. Two labors who were unconscious while taking to hospital, namely, Mr. Rahul and Mr. Ashfaq were examined by doctors in emergency but were declared dead. Other tow labors, after health checkup and primary treatment were discharged from hospital.

				A three member enquiry committee was constituted on 13.03.2024 on the same day of accident by PE, RUIDP to enquire the accident and submit their report after the site visit. The committee report, after discussion with PIU, Consultants, contractor firm , local nearby people , records and site visit, highlighted that: i) as per the discussion with locals barricading was done at the excavation site and labors were wearing safety gears while carrying out the joining work of pipe and manhole; ii) There was no shoring and shuttering done for 5 m deep trench; iii) it was found that adjacent to working area some seepage from the nearby medium size drain was observed which increased the moisture content of soil and may have caused the collapse; iv) There was no proper lightings at the site of accident.; v) Safety officer was not present at the work in accident site;

				v) Request for Inspection (RFI) was submitted by contractor but the accident site was not mentioned clearly with dates and time in RFI; vi) RFI for the accident site were not submitted by contractor and work started without confirmation of CMSC-2 and PIU; vii) Availability of safety equipment was checked by enquiry tam along with PIU, contractor and consultant and safety equipment were found at the store; viii) Based on site visit, investigations and discussion with PIU, CMSC and observation of records by investigating team it appeared that the accident was occurred due to negligence of executing team, contracting firm and supervisory consultant. ix) Similar findings of accidents were reported by CMSC-2 team, comprising Team leader and Environmental Safeguard professional. x) After the report is submitted by enquiry

				committee, to PD, RUIDP, Contractor as well as the CMSC was directed to take strict action against their concerned personnel and to take remedial measures so as to ensure the safety at site and to prevent such incidents in future. xi) PD, RUIDP, directed SE, PIU, Sirohi to take the necessary action against the contractor and appraise the same to RUIDP. xii) As per the provision in contract agreement regarding compensation in accidental cases, as informed by SE, PIU, contractor will provide compensation to deceased family, final details of which are yet to be submitted by contractor and the same as well as the other details as may be obtained will be reflected in next QPR (Apr., 2024-Jun., 2024).

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	1	Minor	Awareness training given to whole team on importance of PPEs & corrective actions to prevent similar incidents
5.	February 2024	0	0	0
6.	March 2024	0	0	0

2. Town: Sirohi**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

3. Town: Sardarshahar**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

4. Town: Ratangarh**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

5. Town: Fatehpur**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

6. Town: Laxmangarh**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

7. Town: Pratapgarh**Contractor: M/s. Khilari Infrastructure Pvt. Ltd.****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

8. Town: Banswara**Contractor: BIPL-SC-HP Joint Venture****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

9. Town: Kuchaman**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

10. Town: Ladnu**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

11. Town: Didwana**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

12. Town: Makrana**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

13. Town: Khetri**Contractor: M/s Lahoty LNA (JV), Jaipur****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

14. Town: Mandawa**Contractor: LNA R&B JV****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	1	0
November 2023	0	0	1	0
December 2023	0	0	1	0
January 2024	0	0	1	0
February 2024	0	0	1	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	1	Minor	Manoj
2.	November 2023	1	Minor	Manoj
3.	December 2023	1	Minor	Manoj
4.	January 2024	1	Minor	Manoj
5.	February 2024	1	Minor	Manoj
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Report on Accident/Incident/near miss/First aid cases – FSTP Towns**1. Town: Neem Ka Thana****Contractor: M/s Genius – LNA JV****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	1	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	1	Minor	Awareness training given to whole team on importance of PPEs & corrective actions to prevent similar incidents
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

2. Town: Shahpura (Jaipur)**Contractor: M/s Genius – LNA JV****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

3. Town: Bandi Kui**Contractor: M/s Genius – LNA JV****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

4. Town: Jobner**Contractor: M/s Genius – LNA JV****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	2	2
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	2	Minor	Manoj
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	2	Minor	Manoj
5.	February 2024	0	0	0
6.	March 2024	0	0	0

5. Town: Bari**Contractor: M/S. MTS-EIEL (JV)****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	1
November 2023	0	0	1	0
December 2023	0	0	1	0
January 2024	0	0	1	0
February 2024	0	0	1	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	1	Monor	Shyampal
3.	December 2023	1	Monor	Shyampal
4.	January 2024	1	Minor	Awareness training given to whole team on importance of PPEs & corrective actions to prevent similar incidents
5.	February 2024	1	Minor	
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	1	Minor	
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

6. Town: Deeg**Contractor: M/S. MTS-EIEL (JV)****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	1	0
November 2023	0	0	0	1
December 2023	0	0	0	1
January 2024	0	0	0	1
February 2024	0	0	0	1
March 2024	0	0	0	1

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	1	Monor	Shyam Pal
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	1	Monor	Shyampal
3.	December 2023	1	Monor	Shyampal
4.	January 2024	1	Minor	Awareness training given to whole team on importance of PPEs & corrective actions to prevent similar incidents
5.	February 2024	1	Minor	Shyampal
6.	March 2024	1	Minor	Shyampal

7. Town: Dausa**Contractor: M/S. MTS-EIEL (JV)****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	1
November 2023	0	0	1	0
December 2023	0	0	1	0
January 2024	0	0	1	0
February 2024	0	0	1	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	1	Monor	Shyampal
3.	December 2023	1	Monor	Shyampal
4.	January 2024	1	Minor	Awareness training given to whole team on importance of PPEs & corrective actions to prevent similar incidents
5.	February 2024	1	Minor	
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	1	Minor	Shyam Pal
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

8. Town: Tijara**Contractor: M/S. MTS-EIEL (JV)****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	1	0
November 2023	0	0	0	1
December 2023	0	0	0	1
January 2024	0	0	0	1
February 2024	0	0	0	1
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	1	Monor	Shyampal
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	1	Monor	Shyampal
3.	December 2023	1	Monor	Shyampal
4.	January 2024	1	Minor	Awareness training given to whole team on importance of PPEs, H&S training and corrective actions to prevent similar incidents
5.	February 2024	1	Minor	Shyampal
6.	March 2024	0	0	Shyampal

9. Town: Bhawani Mandi**Contractor: M/S. MTS-EIEL (JV)****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

10. Town: Shahpura (Bhilwara)**Contractor: M/S. MTS-EIEL (JV)****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

11. Town: Bhinder – Kanode**Contractor: M/S. MTS-EIEL (JV)****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

12. Town: Gangapur (Bhilwara)**Contractor: M/S. MTS-EIEL (JV)****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

13. Town: Pilibanga - Suratgarh**Contractor: M/S. MTS-EIEL (JV)****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2024	0	0	0	0
February 2024	0	0	0	0
March 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2024	0	0	0
5	February 2024	0	0	0
6	March 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2024	0	0	0
5.	February 2024	0	0	0
6.	March 2024	0	0	0

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