



Environmental Monitoring Report

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March 2024

India: Rajasthan Secondary Towns Development Sector Project

Part 1 of 5: Main Report (Pages 1-153) and Appendices 1-2

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

Semi-Annual Environmental Monitoring Report

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

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India: Rajasthan Secondary Towns Development Sector Project (RSTDSP)

Implementation of Environmental Management and Monitoring Plan

Reporting Period: April 2023 to September 2023

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 Sirohi. 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 April 2023 to September 2023; 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 September 2023, 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 10% 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 9 towns Kuchaman, Ladnu, Makrana- Didwana, Abu Road, Sirohi, Mandawa, Pratapgarh & Banswara towns 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 these 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'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.

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 September 2023, 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 and Fatehpur towns are obtained and for Pratapgarh & Sirohi CTO is applied 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(Bhilwara) 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 FSTP is obtained and for Neem ka Thana is 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 (April 2023 to September 2023)

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			
Mr. Vijay Choudhary (Retired on 31.10.2022)	PMU, Jaipur	Project Officer (Env)	9460553535
Mr. Sandeep Bhargava (Joined on 01.11.2022) Relieved from Project Officer duties on dated 09.07.2023 Ms. Poornima Mahlawat Joined as Project Officer on dated 10.07.2023	PMU, Jaipur	Project Officer (Env)	7665112361
Mrs. Shruti Singh	PMU Jaipur	Assistant Project Officer (Env)	9461481054
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@haskoningin dia.co.in
Mr. Sandeep Tanwar Transferred to Banswara/Pratapgarh on dated 01.08.2023	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

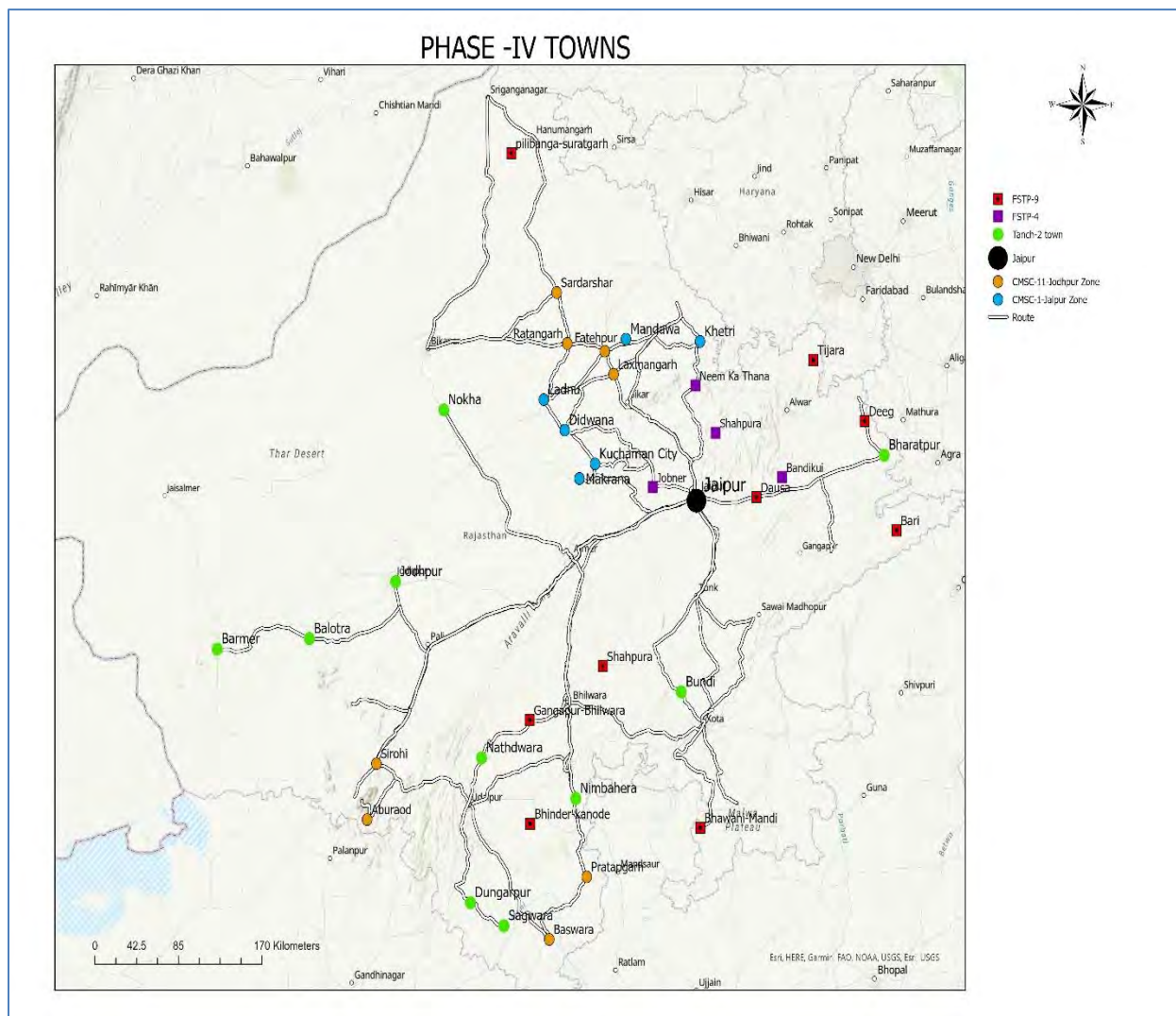
Mr. Jitendra Choudhary	PIU, Ladnun	SSO, PIU, Ladnun	9783433002
Mr. Jitendra Choudhary	PIU, Didwana	SSO, PIU, Didwana	9783433002
Mr. Shrikant Yadav	PIU, Makrana	SSO, PIU, Makrana	8005828897
Ms. Sanju Pooniya	PIU, Mandawa	SSO, PIU, Mandawa	7726032018
Ms. Sanju Pooniya	PIU, Khetri	SSO, PIU, Khetri	7726032018
Mr. Afzal Ansari Left the project on dated 07.02.2023	Ratangarh/Laxmangarh /Sardarshahar/Fatehpur	Safeguard Support Environment CMSC-2	8299562677
Ugrasen Kumar Joined on dated 26.09.2023	Ratangarh/Laxmangarh /Sardarshahar/Fatehpur	Safeguard Support Environment CMSC-2	8687429952
Mr. Amit Kumar Chauhan	Abu Road/ Sirohi	Safeguard Support Environment CMSC-2	7683044085
Ms. Aditi Tiwari Left the project on dated 20.04.2023	Pratapgarh/ Banswara	Environmental Safeguard Support, CMSC-2	9165746877
Mr. Sandeep Tanwar Transferred to Banswara/Pratapgarh on dated 01.08.2023	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. Laxmi Narayan Yadav Left the project on dated 19.06.2023	Khetri Town	Environmental Safeguard Support, CMSC-I	9079942396
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 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

S No.	Town	Package No.	Name of Contractor	NTP Date	Contract Cost (INR)	Contract Cost (US\$) *	Description of works
							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 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/P 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/B NS/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/K TR/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

S No.	Town	Package No.	Name of Contractor	NTP Date	Contract Cost (INR)	Contract Cost (US\$) *	Description of works
							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 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/KMN/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/LDN-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)

S No.	Town	Package No.	Name of Contractor	NTP Date	Contract Cost (INR)	Contract Cost (US\$) *	Description of works
13	Makrana		M/s Larsen & Toubro Limited,	05.05.2021	142,98,18 ,867.00	19,336,7 71.12	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)
14	Ladnu		M/s Larsen & Toubro Limited,	05.05.2021	174,40,93 ,122.00	23,586,9 94.33	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	20,12,80 9.44	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 faecal 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	46345775 0	57,46,70 2.32	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 30.09.2023)

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	80%
3	Fatehpur-RSTDIP/RTG-FTP-LXG/01			√		Sewerage System	98%
4	Sardarshahar-RSTDIP/SRD/01			√		Sewerage System, Water Supply & Rehabilitation	60%
5	Sirohi- RSTDIP/SHR-ABR/01			√		Sewerage System, Water Supply & Rehabilitation	80%
6	Abu Road-RSTDIP/SHR-ABR/01			√		Sewerage System, Water Supply & Rehabilitation	80%
7	Pratapgarh-RSTDIP/PRT/01			√		Sewerage System	85%
8	Banswara-RSTDIP/BNS/04			√		Sewerage System, Water Supply & Rehabilitation	75%
9	Khetri- RSTDIP/KTR/03			√		Sewerage System, Water Supply & Rehabilitation	55%
10	Mandawa-RSTDIP/MDW/03			√		Sewerage System, Water Supply & Rehabilitation	68%
11	Kuchaman-RSTDIP/KMN/02			√		Sewerage System, Water	55%

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		
						Supply & Rehabilitation	
12	Ladnu- RSTDIP/LDN-DID-MKN/01			√		Sewerage System	56%
13	Didwana- RSTDIP/LDN-DID-MKN/01			√		Sewerage System	68%
14	Makrana RSTDIP/LDN-DID-MKN/01			√		Sewerage System	68%
Trenche-I Saving Subprojects under RSTDSP							
1	Combina package of four towns -Bandikui, Neem ka Thana, Shahpura and Jobner		√			Faecal Sludge and Septage Management (FSSM)	11% of Physical Progress Site survey and soil investigation completed in all four towns. Boundary wall works are in progress.
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)	9% of Physical Progress. Site survey and soil investigation completed. Boundary wall works are in progress in Dausa, Tijara, Pilibanga and Shahura (Bhilwara).

* 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 30.09.2023**Town: Ratangarh**

Contract description	Cumulative Progress of works up to 30.09.2023		
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- 80.0 % Stipulated Date of completion of Design Build- 21.06.2023	Sewerage Work:		
	Item	Scope	Progress
	STP (2 No.)	STP-1 6.1 MLD at Gaushala (64.4% physical progress)	6.1 MLD STP- Nagar Palika, Ratangarh issue the letter for re-start of work on 17-05-2022 on behalf of Lok Adalat decision. And work re-started on 18.05.2022. Physical Progress: - SBR- Civil work completed and Hydrotesting work is under progress. PTU: Civil work completed. Admin Building: Plaster work is in progress. Sludge yard work in progress. - TEER: Bottom Dome casting completed and top dome work is in progress.MPS: 70% Civil work completed. SUMP work is in progress. - E&M work: Diffuser, Blower, pump for SBR & TEER, Sluice gates, LT panel are procured. Grit Separator, Fine Screen are installed. Decanter Gate & Blower pipe line work for installation is under progress.
		STP -2 3.8 MLD Near NH-11	3.80 MLD STP – STP in use. E&M work: EMI completed except PLC SCADA installation.
	SPS (2 No.)	SPS -1 3.8 MLD BSNL Office	3.80 MLD SPS- SPS in use. - EM & I: EMI completed except PLC SCADA installation
		SPS -2 4.6 MLD near Main Ginani (68.35% Physical progress)	4.60 MLD SPS: 68.35%: Physical Progress: - SUMP: Wet well completed and Mechanical work is under progress. - Metering, Finishing. Finishing work is in 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 for pump is under progress.
	Lateral sewer (upto dia 300)	129.0 KM	- Supply: 129.0 Km - Laid: - 127.61Km - Hydro Testing:114.34 Km
	Outfall RCC Pipe	1.82 KM	- Supply: -Nil - Laid: -Nil

Contract description	Cumulative Progress of works up to 30.09.2023		
	PVC-U pipe(110 & 160 mm dia)	91.50 KM	- Supply: -76.59km - Laid:- 46.40km
	Manholes (All types)	5485 Nos	• Installation Shallow MH: 3989Nos
		3673	- Precast Supply: 1513 Nos - Laid precast MH: 1401Nos
	Inspection Chamber (A types)	11355 Nos	- Supply: 10337 Nos - Installation:- 9796 Nos
	HDPE pipe (PE 100 PN 6) Trenchless	14.63 KM	- Supply: 14.264 Km - Laid: - 13.192Km
	D.I K-9 Pipes (Pumping Main)	3.50 KM	- Supply: - 3.327 Km - Laid: 2.36Km
	D.I K7 Pipes	3.50 KM	- Supply: Nil - Laid: Nil
	House Sewer Connection	13100 Nos.	• Installation: 4161 Nos.
	For Road Cutting & Restoration-		
	Road cutting	Road restoration Base Layer	Road restoration Top Layer
	- Kuccha: - 12.663Km - CC- 37.789Km - BT- 62.897Km - Interlock -15.408Km - Total –128.757km	- Kuccha: - 12.663 Km - CC-37.789 Km - BT- 62.897Km - Interlock –15.408 Km - Total –128.757 km	- Kuccha: - 12.663 Km - CC- 37.489 Km - BT- 62.237 Km - Interlock -Km - Total -127.757 km
	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.CRMC-2: Civil work & Slab concreting work completed remaining Work is in progress.

Town: Laxmangarh

Contract description	Cumulative Progress of works up to 30.09.2023		
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
	CWR	100 KL at AEn Campus	100 KL at AEn Campus
		250 KL at Bad ke Balaji	250 KL at Bad ke Balaji
	Distribution Network	150.303 km	161.04 km
	House Service Connection upto meter	9007 Nos	9007 nos
	Chlorination Rooms	02 nos	02 nos
	Metering	EMFM -16	
		BFM -31	
	Pressure Transmitters	55 Nos.	
	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 - BT- 1.80 Km - Total -167.84 km	- Kuccha: - 93.11 Km - PCC- 72.93 Km - BT-1.80 Km - Total – 167.84 km	- Kuccha: - 93.11 Km - CC- 72.93 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 30.09.2023			
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 Progress- 98.0% Physical Progress- 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	98.86% completed Installation of EMI work under progress
	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 Under Operation.
		0.60 MLD, (Near Aksha Masjid:- Zone-2) Khasra no. 982, National Highway no. 52, Jahanghir ki kui	Same as Scope of work	95.86% completed EMI work under progress
		1.1 MLD Near Railway underpass Nawalgarh road- Zone-1 (Khasra no. 1806)	Same as Scope of work	95.86% completed EMI work under progress
	Lateral sewer (upto dia 250 mm)	93.494 Km	85.482 Km	a) Supply: 85.482Km b) Laid: - 85.482 Km c) Testing: 85.352 Km d) Interconnection: 131 no. e) Gap closing: 44 no. f) Deflection Test: 82.392 Km e) Commissioning: NIL
	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	34.92 Km	34.50 km
	Manholes (All types)	7478 Nos	4231 Nos.	4231 Nos
	Inspection Chamber (A types)	6600 Nos	2809 Nos.	2809 Nos.
	Population Benefitted due to commissioned	60000	60000	-
	House Sewer Connection	6484 Nos.	6484 Nos.	5776 Nos.
For Road Cutting & Restoration-				

Contract description	Cumulative Progress of works up to 30.09.2023			
	Road cutting	Road restoration Base Layer	Road restoration Top Layer	
	- Kuccha: 50.512 Km - CC –33.67 Km - BT –1.30 Km - Interlock– 0.00 Km Total: - 85.482 Km	- Kuccha: 50.512 Km - CC –33.67 Km - BT –1.30 Km - Interlock– 0.00 Km Total: - 84.812 Km	- Kuccha: 50.512 Km - CC –33.67Km - BT – 1.30 Km - Interlock– 0.00 Km Total: - 84.312 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.
	CCC Building	-		NA
	MCC Building	-		NA
	PLC SCADA	-		NA
	Trenchless Work			
	Item Description	Scope of Work	SIP Scope	Progress made so far
	HDPE Pipe	10.24 Km	15.09 m	a) 15.09 km
	DI Pipe	5.95 Km	2.89 Km	a) 2.89 km

Town: Sardarshahar

Contract description	Cumulative Progress of works up to 30.09.2023			
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	Water Supply:			
	Item	Scope	SIP Scope	Progress
	Total Distribution Network			-
	HDPE Pipe (75mm to 315mm) (180mm)	190.01 Km	260.519 Km Extra Item- 1.009	a) Supply: - 241.05 km b) Laid: - 220.54 km c) Testing: - 205.15 km d) Commissioning: -NIL
	DI Pipe K7 (100mm to 400mm)	10.379 km	11.981 Km	a) Supply: - 11.08km b) Laid: - 4.08 km c) Hydro Testing: - 3.21km d) Commissioning: -NIL
	DI Pipe K9	2.100 Km	6.100 km	a) Supply: - 6.10 km b) Laid: - 1.748 km c) Hydro Testing: - 0.70 Km d) Commissioning: - NIL
	House Service Connection	22000 Nos	22907 Nos.	a) Laying/installation: -12790 nos

Contract description	Cumulative Progress of works up to 30.09.2023			
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- 60.0% Stipulated Date of completion of Design Build- 21.06.2023	Domestic Water Meter (15mm,20mm & 25mm)	22000 Nos	22907 Nos.	a) Supply: - 6867 Nos. b) Installation: - 1183 Nos. c) Testing: - NIL d) Commissioning: - NIL
	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
	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	Physical progress: - 80.11% PH:- Pump Testing Work in Progress.
	CWR	1 No. (2400 KL PHED Campus)	1 No. (2400 KL PHED Campus	Physical progress: - 80.11% CWR Tank -Interconnection work in Progress.
	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 2% and Bharodhan, OHSR 2%.
	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	Physical progress: - 77.06% TEER: - Civil work completed. SBR: - Civil work completed. Hydro testing work in progress. PTU: - Civil Work Completed. Admin building: - Civil Work Completed, finishing work is in progress. Staff Quarters: - Civil Work Completed, Plaster work is in progress.	

Contract description	Cumulative Progress of works up to 30.09.2023			
				Guard Room: - Roof slab work Completed. DG & Transformer:- Foundation work in progress.
		2.3 MLD at South Campus	2.3 MLD at South Campus	Physical progress: - 78.94% TEER: - Civil work completed. SBR - Civil work completed. EMI Installation work in progress. PTU: -Civil work completed. Hydro test work is in progress. Admin Building: - Civil Work Completed. Staff Quarters: - Civil Work completed, finishing work is in progress. Sludge storage yard: - Civil work completed. Metering Room: - Civil work completed, Finishing Work in progress. Parking Shed: - Civil work completed. DG, Transformer & RMU:- Civil work completed.
		1.6 MLD at Gandhi Vidhya Mandir Campus	1.6 MLD at Gandhi Vidhya Mandir Campus	Physical progress: - 5.55% Admin block footing work completed.
	MWPS	1	1	-
		0.60 MWPS		Physical progress: - 51.70% All civil work completed.
	MWPS 0.65 MLD (Bikaner Road Near Sabji Mandi)	-	1 No. (0.65 MWPS)	Physical progress: - 32.25% Sump well work in completed. Raft work is in progress.
	SPS	2.3 MLD at Gaushala Land near BSNL Office	2.3 MLD at Gaushala Land near BSNL Office	Physical progress: - 65.26% Wet wall:-Civil work completed. Metering Room:- Brick Masonry work is in progress .
	Lateral Sewer (up to dia 315) (200mm,250m m,300mm)	51.789	50.39	a) Supply: 43.300 km b) Laid: -39.722 km c) Testing: - 27.311 km d) Commissioning-NIL
	Outfall (350mmto600m m)	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: - 28.858 km c) Testing: NIL

Contract description	Cumulative Progress of works up to 30.09.2023			
	Manholes (All types)	4319 Nos.	2964 nos.	d) Commissioning: -NIL a) Supply: 2930 Nos b) Installation: - 2233 Nos c) Testing: - 1284 Nos d) Commissioning: - Nil
	Inspection Chamber (All types)	7600	7600 Nos.	a) Supply: 3869 Nos b) Installation: - 3670 Nos c) Testing: - NIL d) Commissioning: - NIL
	Population benefitted due to commissioned	1.09 lacs	1.09 lacs	-
For Road Cutting & Restoration-				
Road cutting		Road restoration Base Layer		Road restoration Top Layer
- Kuccha: 90.507 Km - CC –90.94 Km - BT/WMM –39.10 Km - Interlock– 0.00 Km - Total= 220.54 Km		- Kuccha: - 90.507 Km - CC PCC –90.55 Km - BT/WMM 39.10 Km - Interlock – 0.00 Km - Total = 220.15Km		- Kuccha: - 90.507 Km - CC PCC –90.55 Km - BT/WMM 39.10 Km - Interlock – 0.00 Km - Total= 220.15 Km
Building and Miscellaneous work				
Item Description	Scope of Work	SIP Scope	Progress made so far	
CRMC -1	1. PHED Campus	1. PHED Campus	- Physical progress: - 95% - Civil work completed.	
CRMC -1	1. AEn, PHED campus	1. AEn, PHED campus	- Physical progress: - 79.80% - Civil work completed, Finishing work in progress.	
CCC Building (1 No.)	PHED Campus	PHED Campus	- Physical progress: - 95% - Work completed.	
MCC Building (1 No.)	PHED Campus	PHED Campus	- Physical progress: - 91.05% - Civil work completed. SCADA system work is in progress.	
PLC SCADA	1 No.	1 No.	-	
Trenchless Work				
HDPE Pipe (250mm to 630mm)	11.866 Km	9.60	a) Supply: -11.04 Km b) Laid: - 6.43 Km c) Testing: - Nil d) Commissioning: -Nil	
RCC Pipe(600mm)	Extra Item	4.19	a) Supply: - 0.30 km b) Laid: - Nil c) Testing: - Nil	
MS Pipe (450mmto 500mm)	Extra Item	200 mtr	a) Supply: - 0.114 km b) Laid: - 0.112 Km c) Testing – NIL d) Comissioning – NIL	

Town: Abu Road

Contract description	Cumulative Progress of works up to 30.09.2023			
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- 80.0% % 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: 140.607 Km b) Laid: -. 1119.837 Km c) Testing 1110.56 km d) Commissioning: NIL
	DI Pipe K7	33.08 Km	18.09 km	a) Supply: 18.09 Km b) Laid: -14.112 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: - 26.491 Km c) Testing: 2.0 km d) Commissioning: NIL
	House Service Connection	12800 Nos	12800 Nos.	a) Laying/Installation: 7798 Nos. b) Testing: NIL c) Commissioning: NIL
	Domestic Water Meter	12800 Nos	12800 Nos.	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
	Metering	EMFM-13 Nos	13 Nos.	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
		BFM- 59 Nos.	59 Nos	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
	Pressure Transmitters	88 Nos.	88 Nos.	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
	No. of DMAs	20 Nos.	20 Nos.	-
	RWR	-		-
	WTP 10 MLD	1 No	1 No.	Clariflocculator- completed. Chemical House: flooring in progress Admin Building: Painting in progress. Staff Quarters Completed. Guard room metering room – Finishing work in progress.
	Pump House	4 No	4 Nos.	Santpur, Luniyapura, Market Area and Housing Board
		Santpur	Santpur	Civil Work completed, Plaster in Progress.
		Luniyapura	Luniyapura	Plastering completed, Boundary wall construction in progress.
		Market Area	Market Area	Excavation work under progress.

Contract description	Cumulative Progress of works up to 30.09.2023			
		Housing Board	Housing Board	Upto plinth civil work completed.
	CWR	5 No.	5 Nos.	Santpur , Luniyapura, Market Area, Gandhinagar and Housing Board
		Luniyapura CWR	Luniyapura CWR	Civil Work completed. Boundary wall construction in progress
		Santpur CWR	Santpur CWR	Civil Work completed
		Market Area CWR	Market Area CWR	Excavation work under progress
		Housing Board CWR	Housing Board CWR	Civil Work completed.
		Gandhi Nagar CWR	Gandhi Nagar CWR	- Civil Work completed. - Hydro testing in progress
	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 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
	Wastewater			
	STP (02 Nos.)	6.9 MLD	6.9 MLD	SBR- completed. PTU- completed. Staff Quarter- completed. Admin Building- completed. Guard Room & Metering Room- Completed. TEER- Dome bottom slab is in progress MPS- Completed.
		2.3 MLD	2.3 MLD	SBR- Completed. PTU- completed. MPS- completed. Admin Building – Completed Staff Quarter- Completed Guard Room & Metering Room- Completed TEER- Yet to be started. Retaining wall- Completed.
	DWC Pipes	82.39 Km	82.39 Km	a) Supply: 84.223 Km b) Laid: -84.433 Km c) Testing: 77.2 Km d) Commissioning: NIL

Contract description		Cumulative Progress of works up to 30.09.2023		
	RCC Pipes	1.59 Km	1.59 Km	a) Supply: 1.125 km b) Laid: - 1.108 km c) Testing: 1.108 km d) Commissioning: NIL
	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: -3608 Nos. c) Testing: 3098 Nos. d) Commissioning: NIL
	Inspection Chamber (All types)	13000 Nos.	14150 Nos.	a) Supply: 8608 Nos. b) Installation: - 8641 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-72.35 Km • BT- 7.55 Km	
Road Restoration		95.35 Km	• Kuccha: -9.3 Km (Only Kuccha) • CC Km (up to PCC-72.0 km, Full CC-72.11 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	Finishing work in progress	
CCC Building		1	Finishing work in progress	
MCC Building		1	Finishing work pending	
PLC SCADA		11	Drawings under review	
Trenchless Work				
HDPE Pipe		15.78 km	a) Supply: 15.79 Km b) Laid: - 14.941 Km c) Testing: 13.0 Km d) Commissioning: NIL	
RCC Pipe		1.59 km	a) Supply: 1.125 km b) Laid: - 1.108 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 30.09.2023			
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- 80.0 % 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: - 129.198km b) Laid: 128.006 km c) Testing: - 125.700 km d) Commissioning:- NIL
	DI Pipe K7	5.4 Km	5.257 km	a) Supply: - 5.257 km b) Laid: - 4.468 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:- Nil
	House Service Connection	8900 Nos	12428 Nos.	a) Laying/install: - 8817 nos b) Testing: - 8910 nos c) Commissioning:- Nil
	Domestic Water Meter	8900 Nos	12428 Nos.	a) Supply: - 6273 Nos. b) Installation: - Nil c) Testing: - Nil d) Commissioning: - Nil
	Metering	EMFM-10 Nos	EMFM- 10 Nos.	a) Supply: - 10 Nos. b) Installation: - Nil c) Testing: - Nil d) commissioning: - Nil
		BFM- 11 Nos.	BFM- 32 Nos	a) Supply: - 20 Nos. b) Installation: - Nil 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)	-	As per revised scheme
	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. Due to Biparjoy Cyclone effect, works are held up.
	WTP	9 MLD WTP at Angore	-	Cascade Aerator completed. Staff quarter sanitary fittings and window fittings work completed; Filter house 4th wall lift completed. Walk way slab over clear water channel completed and columns are completed. Filter house

Contract description	Cumulative Progress of works up to 30.09.2023			
				roof slab completed. Cascade Aerator, Distribution chamber, Parshal flume and by pass Channel bottom beam & Slab completed, Wall and Chambers completed. Sludge storage yard beam completed. Chemical house PACL storage wall Completed. Chemical house first floor slab completed and brickwork in progress. Admin building 1st floor roof slab Completed Brick work completed & Plastering work is in progress. Clariflocculator inner side wall completed and outer wall longer slab & final lift completed. CLF walk way completed. CWR slab completed. Pump house columns 2nd lift completed. Tie beam and Roof Slab completed. Head room slab of chemical house completed. Filter house annexure room roof slab completed. Back wash water tank columns completed and further reinforcement works are in progress. Aerator circular base slab and circular wall completed. Back Wash Tank Base Slab completed and further works are in progress.
	Pump House (3 Nos)	1. At Teen Batti 2. At Kalkaji 3. At Sardulpura	-	1. Teen Batti CWR-PH: - Raft completed. Side wall 3rd lift completed. First lift of columns completed further works are in progress. MCC Room Column footing completed. Columns upto Tie beam level completed. Further works are in progress. 2. Kalkaji CWR-PH: -, Raft concrete done and 3rd lift of side wall completed Further works are in progress. MCC Room Columns 2nd lift completed 3. Sardulpura CWR-PH :- PCC & Raft slab completed. Side wall 2nd lift and columns two lifts completed completed and further works are 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	-	1. Teen Batti CWR-PH: - Hydro Test is in Progress. 2. Kalkaji CWR-PH: - CWR sump portion and CWR wall 6th lift completed.

Contract description	Cumulative Progress of works up to 30.09.2023			
		2. 1450 KL at Kalkaji 3. 270 KL capacity at Sardulpura		further reinforcement works in progress. 3. Sardulpura CWR-PH: - CWR 3rd lift and Sump 4th lift completed and Dome portion completed.
	GLSR	Existing GLSR (3 Nos.) 1. 567 KL at Tankariya on hillocks 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	-	Comes under refurbishment plan
	Tube well & Open Well	12 nos of existing tube wells and open wells 6 nos. of existing open well 2. 6 nos. of existing tube well	-	Comes under refurbishment plan
	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
		Proposed OHSRs	-	-
	Population benefitted due to	35000		-

Contract description	Cumulative Progress of works up to 30.09.2023			
	commissioned			
	Wastewater			
	STP (2 nos.)	5 MLD	-	STP (5 MLD): - SBR civil work completed and decantor fixed and Hand railing & finishing work is in progress, TEER civil work completed and hydro test completed. Admin building GF roof Slab Done, 1st floor roof slab completed, Brick work is in progress. 1st floor roof slab above the Blower room completed. Blower and piping works is in progress. PTU Completed Hand railing completed. Staff quarter Painting work is in progress. Guard room & metering room Brick & Plastering is in progress. MPS civil work completed, sludge tank over admin building completed. Sludge storage yard plinth beam completed, Column Completed up to roof. RMU, Transformer, DG set foundation completed. EMI work under progress. SBR one portion hydro test done and another portion is under Hydro Test. MPS in under hydro test done.
		1.7 MLD	-	STP (1.7 MLD): - PTU completed. TEER civil work completed and TEER hydro test completed. SBR civil work completed and decantor fixing work completed, Sluice gate and screen chambers installation work is in progress. Staff quarters plaster completed and flooring work is in progress. Admin building handrail and 1st floor Roof slab completed and brick work is in progress. Sludge storage yard plinth beam completed. Column completed. RMU and DG set foundation completed. MPS civil work completed. RMU, Transformer, DG set foundation completed. EMI works are under progress. SBR both portions hydro test completed. MPS hydro test done
	MPS	-	-	STP (5 MLD): -.MPS Civil work completed. STP (1.7 MLD): -. Civil work completed, EMI work in progress.
	SPS	-	-	-
	Lateral Sewer (upto dia 315)	78.76 Km	82.318 Km	a) Supply: - 82.318 km b) Laid: - 80.678 km c) Testing: - 77.521 km d) Deflection test: - 75.50 km

Contract description	Cumulative Progress of works up to 30.09.2023			
				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: - 44.070 km c) Testing: - 39.200 km d) Commissioning:- Nil
	Manholes (All types)	5990	4800 Nos.	a) Supply: - 4092 nos b) Installation: - 3970 nos c) Testing: -3710 nos a) Commissioning:- Nil
	Inspection Chamber (All types)	9000	11002 Nos	a) Supply: - 6382 nos b) Installation: - 5861 nos c) Testing: - 5610 nos d) Commissioning: - Nil
	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:- 48.3020 km BT:- 8.40 km	
Road Restoration		Granular Course - 31585 cum CC- 20,980 cum BT -3170 cum	a) CC: 48.0 Km (upto PCC); 48.0 Km (upto CC) b) BT: 8.40 Km (upto WBM); 8.40Km (upto BT) Kachha/WMM:- 81.750 km	
Building and Miscellaneous work				
Item Description		Scope of Work	SIP Scope	Progress made so far
CRMC Building		1	-	CRMC building handed over to Municipal corporation of SIROHI
CCC Building		1	-	CCC building handed over to Municipal corporation of SIROHI
MCC Building		1	-	MCC building plastering and finishing work is in progress.
PLC SCADA		-		-
Trenchless Work				
HDPE Pipes		10.8 Km	9.59 km	A) Supply: - 10.151 Km B) Laid: - 9.807 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 30.09.2023

Contract description	Cumulative Progress of works up to 30.09.2023			
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- 85.0 % Stipulated Date of completion - 01.11.2024	Wastewater			
	Item	Scope	SIP Scope	Progress
	STP (1 nos.)	7 MLD	7 MLD	99.0%
	MWP	0.1 MLD	0.1 MLD	99.0%
	SPS	7 MLD	7 MLD	99.0 %
	Lateral Sewer (up to dia 315)	92.69 Km	107.678 km	a) Supply: 105.410 Km b) Laid: -105.403 Km c) Testing: 105.403 Km d) Deflection Test: NIL e) Commissioning: NIL
	Outfall (above dia 315)	7.665 Km	3.103 KM	a) Supply: 2.750 Km b) Laid: -2.695 km c) Testing: 2.695 km d) Commissioning: NIL
	PVC-U Pipe (110 & 160 mm dia)	108 KM	88.091 KM	a) Supply: 73.296 Km b) Laid: -70.998 km c)Testing: km d) Commissioning: NIL
	Manholes (All types)	6884 Nos.	6831 Nos	a) Supply (P1, P2, P3): 4850 nos b) Installation:6519 Nos. c) Testing: 6519 Nos. d) Commissioning: NIL
	Inspection Chamber (All types)	10800 Nos.	11188 Nos	a) Supply: 10345 nos b) Installation: -10098 nos. c) Testing: 10098 Nos. d) Commissioning: NIL
	House connection	11100	11418	9908 Nos.
	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-45.810 Km • BT-43.577 Km • Kuccha/WMM: -13.477 Km • Interlock tiles: 1.162 km
	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: 45.810 km (up to PCC), 44.451 km (up to CC) b) BT: 43.577 km (up to WMM) 41.592 km (up to BT) c) Kuccha- 13.477 Km d) Interlock tiles- 1.162 km
	Building and Miscellaneous work			
	Item Description	Scope of Work	SIP Scope	Progress made so far

Contract description	Cumulative Progress of works up to 30.09.2023			
	CRMC Building-1	1	1	98.0%
	CRMC Building -2	1	1	98.0%
	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: 4.100 km b) Laid: -4.072 km c) Testing: 4.072 km d) Commissioning: NIL
	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: Meter

Town: Banswara

Contract description	Cumulative Progress of works up to 30.09.2023			
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 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- 01.02.2021	Water Supply			
	Item	Scope of work as per BOQ	SIP Scope	Progress
	Total distribution network	353.675 km	353.675 km	
	HDPE Pipe	43.220 km	57.612 km	a) Supply: - 57.500 km b) Laid: - 57.452 km c) Testing: - 55.652 km d) Commissioning: - 0.0 km
	DI Pipe K7	286.793 km	287.386 km	a) Supply: - 287.386 km b) Laid: - 285.348 km c) Hydro Testing: - 282.927 km d) Commissioning: - 0.0 km
	DI Pipe K9	8.677 km	8.677 km	a) Supply: - 8.677 km b) Laid: - 7.996 km c) Hydro Testing: - 0.0 km d) Commissioning: - 0.0 km
	House Service Connection	23600 Nos	24111 Nos	a) Laying/Installation: - 21921 Nos. b) Testing: - NIL
	Domestic Water Meter	23600 Nos	24111 Nos.	a) Supply: - 9000 Nos. b) Installation: - 6641 Nos. c) Testing: - NIL
	Metering	EMFM- 32 Nos	EMFM- 32 Nos	a) Supply: - NIL b) Installation: - NIL.

Cumulative Physical Progress- 75.0% Stipulated Date of completion – 31.01.2025				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.	
	WTP	9.25 MLD (AEn Campus)	1 no.= 9.25 MLD (AEn Campus)	Clariflocculator CLF-01. – RCC work completed. Clariflocculator CLF-02. - RCC work completed. Admin Building: Plinth protection work is under progress. Inlet Chamber and connecting chamber- Inlet chamber work is under progress. CCT- RCC work is completed. Sand Filter Bed- 1st floor column upto slab reinforcement and formwork work is under progress. Annex Building: - 1st Floor column upto slab reinforcement and formwork work is under progress. Backwash Recovery tank: - Civil work is under progress. Staff Quaters: - Finishing work is under progress. Chemical House: - 1st Floor Column upto slab reinforcement and formwork work is 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. Plinth beam casting Work is completed. 2.Plinth beam reinforcement and formwork is under progress.
	CWR	CWR-1550 KL (AEn Campus, PHED main campus)	CWR-1550 KL (AEn Campus, PHED main campus)	Finishing work is under progress
	OHSR		-	-
	Rehab work (WTP,PH,CW R, OHSR etc.)		-	-
	Population benefitted due to commissioned		-	-

Wastewater			
STP (1 nos.)	9.60 MLD (existing STP Campus)	9.60 MLD (existing STP Campus)	1. SBR- RAS/SAS pump DI pipe line installation work is under Progress. 2. MPS- Finishing work is under progress. 3. Staff Quarter- Civil work complete and finish work is under progress. 4. TEER- plinth Protection work under progress. 5. Admin Building- Finishing work is under progress. 6. TESR- RCC work is completed and Finishing work is under progress. 7. PTU- Finishing work is under progress 8.CCT- Finishing work is under progress. 9.Sludge Building- Sludge dewatering machine installation work is under progress. 10.Sludge Sump- RCC work is completed. 11.Inlet Chamber Railing work is under progress.
SPS	SPS-1 : 0.60 MLD (Ward no. 21 near Nathelav Pond)	SPS-1 : 0.60 MLD (Ward no. 21 near Nathelav Pond)	Coarse Screen installation work in progress.
	SPS-2: 1.7 MLD (Ward no. 1 near Pratapgarh Road)	SPS-2: 1.7 MLD (Ward no. 1 near Pratapgarh Road)	Panel Room Plaster work in progress.
Lateral Sewer (up to dia 300 HDPE-DWC)	81.559 km	Total = 99.456 km	a) Supply: 98.554 km b) Laid: - 98.495km c)Testing: - 97.991 km d)Deflection test: 95.525 Km e) Commissioning-0 km
Outfall (above dia 300 RCC NP4)	6.431 KM	Total = 2.668 km -	a) Supply: 1.927 km b) Laid: 1.897 km c)Testing:0 Km d)Commissioning: -0 km
PVC-U Pipe (110 & 160 mm dia)	Total = 138 Km	138 Km	a) Supply: - 80.103 km b) Laid: - 58.340 km c)Testing: - NIL d)Commissioning: - NIL
Manholes (All types)	Total = 6338 Nos Precast RCC MH=2086	Total= 5578 Nos. Precast RCC MH=3256 nos	a) Supply: 3435 nos b) RCC manhole Installation: - 3432 Nos c) Shallow manhole :1840 nos d) Type A- 48 Nos

		Shallow MH = 4020 Sewer-Brick MH=232	Shallow MH= 2090 nos Sewer-Brick MH=232	e) Type C- 70 Nos e) Testing: 5190 Nos. f) Commissioning: 0 nos.
Inspection Chamber (All types)	Total = 13800 Nos	11251 nos.	a) Supply: 10890 nos b) Installation: -10873 Nos. c) Testing: 0 Nos. d) Commissioning: NIL	
HSC	Total = 11251 Nos	11251 nos.	3411 Nos.	
Population benefitted due to commissioned		-	-	
For Road Cutting & Restoration-				
Item Description		Scope of Work	Progress made so far	
Road Cutting		-	a) CC:- 53.437 km b) BT: -42.837 km c) Kuccha/WMM: - 250.701 km • Interlock Tiles: - 3.995 km	
Road Restoration			a) CC: - (upto PCC):-53.403 km (upto CC):- 53.164 km b) BT: - Nil (upto WMM); 42.837 km Nil(upto BT):- 42.499 km c)Kuccha/WMM: - 250.701 km d)Interlock Tiles: - 3.995 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 finishing work is under progress (Physical progress-90.00%)		
	2. At Dahod Road(Khandu Colony)	2. CRMC (Khandu Colony)- Civil Work is Completed and finishing work is under progress. (Physical progress-90.00%)		
	3. At Housing board colony	3. CRMC (housing board)- Civil Work is Completed and finishing work is under progress. (Physical progress-90.00%)		
CCC Building 1 No.	At AEN campus	Civil Work is Completed and finishing work is under progress. (Physical progress-90.0%)		
MCC Building 1 No.	At AEn Campus	Civil Work is Completed and finishing work is under progress. (Physical progress-90.0%)		
PLC SCADA	-	Nil		
Trenchless Work				
HDPE pipe (Trenchless)	Total=6.040 km	a) Supply: - 4.630 km b) Laid: - 4.400 km c) Testing: - 0.0 km d) Commissioning: -0.0 km		

Town: Kuchaman

Contract description	Cumulative Progress of works up to 30.09.2023			
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- 55.0% 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: 355.797 Km b) Laid: - 314.090 Km c) Testing: 239.0 Km d) Commissioning: 0.0 km
	DI Pipe K7	4.8 Km	6.14 km	a) Supply: 6042 mtr b) Laid: -4765.12 mtr c) Hydro Testing: 3200 mtr d) Commissioning: 0.0 km
	DI Pipe K9	11.13 km	10.93 km	a) Supply:10880 mtr b) Laid: - 7233.548 mtr c) Hydro Testing: 5000 mtr d) Commissioning: km
	House Service Connection	14900 Nos	14900 nos.	a) Laying/Installation: - b) Laid: -9528 Nos. c) Testing: 6010 Nos. d) Commissioning: 0 Nos
	Domestic Water Meter	14900 Nos	14900 nos.	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
	Metering	EMFM	EMFM	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
		BFM	BFM	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
	Pressure Transmitters	0 Nos.	-	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
	No. of DMAs	12 Nos.	23 nos.	-
	RWR	-	-	-
	WTP	NIL		-
	Pump House (04 Nos)	Pump House - 1 (600 KL)	Pump House - 1 (600 KL)	Raft of PH & first lift of verical wall upto plinth completed and shuttering & reinforcement of plinth beam & staircase is in progress. Note-Cumulative progress : Design & Drawing, Civil work and EMI (20.16%)
Pump House – 2 (Panchwa Road 1200 KL)		Pump House – 2 (Panchwa Road 1200 KL)	RCC work completed & brick work is in progress Note-Cumulative progress :	

Contract description	Cumulative Progress of works up to 30.09.2023			
				Design & Drawing, Civil work and EMI (20.16%)
		Pump House 3 (Jagdamba Colony 920 KL)	Pump House 3 (Jagdamba Colony 920 KL)	Raft & first lift & walkway of PH completed and concreting work up to tie beam & shuttering of floor & staircase is in progress. Note-Cumulative progress : Design & Drawing, Civil work and EMI (20.16%)
		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 is in progress. Note-Cumulative progress : Design & Drawing, Civil work and EMI (20.16%)
	CWR 04 Nos.	CWR 1 (600 KL)	CWR 1 (600 KL)	PCC and raft of CWR second lift (3.6 m) is completed.& reinforcement & shuttering work of third lift is in progress.
		CWR 2 (1200 KL)	CWR 2 (1200 KL)	RCC work of CWR & staircase completed and cleaning work of CWR is in progress.
		CWR 3 (920 KL)	CWR 3 (920 KL)	CWR wall completed upto 5.40 mtr, and shuttering work of balance vertical wall & dome is in progress.
		CWR 4 (730 KL)	CWR 4 (730 KL)	Concreting of CWR completed upto roof slab and staircase. Preparation of testing work & Concreting of columns of chlorination room is completed.
	OHSR	Nil		-
	Rehab work (WTP,PH,CW R, OHSR etc.)	-		-
	Population benefitted due to commissioned	-		-
	Wastewater			
	STP (1 nos.)	7.60 MLD Near Dussehra Maidan	7.60 MLD Near Dussehra Maidan	1. TEER: Concreting up to Top Dome completed and de-shuttering work is in progress. 2. Admin building – All RCC & brick work of Admin building completed. plaster work & reinforcement of foundation of blower is

Contract description	Cumulative Progress of works up to 30.09.2023			
				completed & erection work of blower is under progress. 3. SBR Civil work completed and railing work in progress and preparation for hydro test in progress. 4. Staff quarter plaster work (inner & outer) completed and finishing work is in progress. 5. MPS: Concreting work and sinking completed and PCC and Raft reinforcement work is in progress. 6. PTU: Concreting work completed up to first lift after slab of PTU and Concreting & Shuttering & reinforcement balance work is in progress. Note-Cumulative progress: Design & Drawing, Civil work and EMI (8.79%)
	SPS	3.10 MLD	3.10 MLD	Masonry work of boundary wall & concreting work of wet well 3rd lift is completed & reinforcement of fourth lift is in progress. Note-Cumulative progress : Civil work plus Design & Drawing (2%)
		0.85 MLD	0.85 MLD	Plaster work of boundary wall completed & finishing work of guard room & 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	Reinforcement & shuttering work of wall for Sinking work in progress.
	Lateral Sewer (up to dia 315)	148.942 Km	136.28 Km	a) Supply: 122.364 Km b) Laid: - 101.044 Km c) Testing: 85.150 Km d) Deflection Test: 79.525 Km d) 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: 2335 mtr d) Commissioning: Nil

Contract description		Cumulative Progress of works up to 30.09.2023			
	PVC-U Pipe (110 & 160 mm dia)	108.0 Km	60.2 km	a) Supply: 60.2 Km b) Laid: -32.50 Km c) Testing: 22.0 Km d) Commissioning: NIL	
	Manholes (All types)	10352 Nos.	7910 km	a) Supply: 5969 nos b) Installation: -5045 Nos. c). Testing: 3800 Nos. d) Commissioning: 0 nos.	
	Inspection Chamber (All types)	10800 Nos.	10800 nos.	a) Supply: 7148 nos b) Installation: -6738 Nos. c) Testing: 3645 Nos. d) Commissioning: NIL	
	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	
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) WMM: 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 work in progress.	
B	CCC Building	1	1	RCC work completed and furnishing & finishing work is in progress.	

Contract description	Cumulative Progress of works up to 30.09.2023				
	C	MCC Building	1	1	RCC and brick work completed and plaster 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: 7.70 km b) Laid: -7.500 km c) Testing: 6.10 km d) Commissioning: Nil
	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 30.09.2023			
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- 68.0%	Wastewater			
	Item	Scope	SIP Scope	Progress
	STP	3.0 MLD	3.0 MLD	• BEP Approved • GA drawing approved. • Hydraulic & Process Flow diagram approved. • Piping and instrumentation diagram approved. • TEER design calculation, Numeration, piping arrangement drawing and RC detail approved. • Guard & Metering Room architectural, Numeration and RC detail approved • Staff quarter architectural, Numeration and RC detail approved • SBR Unit: Civil Work Completed. Hydro testing is going on. • PTU Civil Work Completed and Mechanical work in progress. • • Admin Building: - All civil work completed except door, Window & paint. Window work is going on. • TEER: - PCC, Raft completed & 1st Brace Beam WIP.

Stipulated Date of completion – 16.05.2024				• Staff Quarter: - All civil work completed except door, Window & paint. Window work is going on. • MPS: - Casting of Sump is completed and sinking work in progress. • EMI: - Decanter, Air Blower, Dewatering Machine, PTU unit equipment stack at site. PTU equipment installation work in progress.
	MPS	-	-	-
	SPS 02 Nos.	SPS-1: 1.7 MLD (Salt area)	SPS-1: 1.7 MLD (Salt area)	Sinking of sump is completed up to 6th lift. EMI:- Inlet Chamber equipment & Coarse Screen procured and stacked at site.
		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 in progress. EMI:- Inlet Chamber equipment & Coarse Screen procured and stacked at site.
	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: 200 mm (DWC): 42.741 km 250 mm (DWC): 0.800 km b) Laying Laid: -42.741 Km (200 mm DWC) Laid: 0.666 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-	• 350mm (RCC NP-4) – 366mtr • 400mm (HDPE PE-	a) Supply: 0.50 Km b) Laid: - 0.473 Km c) Testing: 0.473 Km d) Commissioning: NIL

		100/PN-6) – 2525mtr • 900mm(RCCNP-4) – 800 mtr	100/PN-6) – 43 mtr • 900mm(RCCNP-4) – 800 mtr	
	PVC-U Pipe (110 & 160 mm dia)	• 110mm - 37490mtr • 160mm – 6510mtr	• 110mm – 16782 mtr • 160mm – 2916mtr	a) Supply: 19.992 Km (110 mm) 2.940 km (160 mm) b) Laid: - 19.852 km (110 mm) c) Laid: - 2.940 km (160 mm) d) Testing: 18.50 (110mm) e) Testing: 2.90 km (160mm) f) Commissioning: 9.84 km
	Manholes (All types)	4137 (Nos)	2372 (Nos)	a) Supply: 2261 nos b) Installation: 2226 Nos. c) Testing: 2050 Nos d) Commissioning: 1161 nos.
	Inspection Chamber (All types)	4400 Nos	3283 Nos	a) Supply: 3541 nos b) Installation: -3461 nos. c) Testing: 3090 Nos d) Commissioning: 1766 Nos
	Population benefitted due to commissioned	36184	36184	-
	House Sewer Connection	3800 (Nos)	3283 Nos.	1879 Nos Completed
	DI Pumping Main	150mm-1100 mtr 200 mm-2600 mtr	300mm-1300 mtr 250 mm-2400mtr	Supply:- 2310.0 Mtr (250mm)
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: 27.516 km b) BT: 5.245 km c) WBM: 0.447 km d) Kuccha: 12.483 km e) Interlocking Tiles: 0.778 km
	Road Restoration	a) CC: Km b) BT: Km c) Kuchha: Km		a) CC: 27.264 km (up to PCC) 27.264 km (up to CC) b) BT: 5.245 km (up to WBM) 5.245 km (up to BT) c) WBW: 0.447 Km d) Kaccha: 12.483 km e) 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 (250,315,400 mm) b) Laid: - 5.456 Km (250mm HDPE) c) Laid: 1.128 Km (315 mm HDPE) c) Testing:6.299 km d) Commissioning: 3.0 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 30.09.2023		
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) Name of Contractor- M/s. Larsen & Turbo Limited Contract type- Design, Build and Operate Date of Start- 18.5 2021 Cumulative Physical Progress- 56.0 % Stipulated Date of completion – 16.5.2024	Waste Water		
	Item	Scope	Progress
	STP (2 nos.)	5.5 MLD	Staff quarter: - Column Upto 1st Floor level completed, Bar bending & Shuttering for Staircase. Admin Building: - Plaster work in outside, first floor in progress SBR Unit - Beam and slab over TESR pit casting completed TEER Unit: - 3rd bracing shuttering under progress. PTU Unit: - civil work completed. MPS:- 3rd lift upto 6.5 mts. height wall casting completed and Final lift balance 2.15 mtr height wall shuttering in progress.
		2.4 MLD	SBR: Outer wall casted Up to 4 m Shuttering of W1 (SBR Wall)-CCT side Decanter column shuttering 2nd lift in progress. PTU: Column casting in progress above plinth beam. Adming Building: All column completed above plinth beam. Staff quarter : Column work in progress above plinth beam.
	Lateral Sewer (up to dia 315)	97.164 km	a) Supply: 97.048 Km b) Laid: -93.394 Km c) Hydro Testing: 91.0 km d) Deflection Test: Nil e) Commissioning: Nil
	Outfall (above dia 315)	9.527 km	a) Supply: 9.972 km b) Laid: -6.910km c) Testing: Nil d) Commissioning: Nil
	PVC-U Pipe (110 & 160 mm dia)	78.88 Km	a) Supply: 49.462 Km b) Laid: -41.552 km c) Testing: Nil d) Commissioning: Nil
	Manholes (All types)	5355 nos.	a) Supply: 4038 nos b) Installation: 3924 Nos c) Testing: NIL d) Commissioning: NIL
	Inspection Chamber (All types)	13148 Nos.	a) Supply: 8041 nos. b) Installation: -8247 nos. c) Testing: NIL d) Commissioning: NIL
	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: 85.025 km b) BT: 5.621 km (upto WBM) c) Kuchha/WMM: 12.395 km
	Road Restoration	a) CC: Km b) BT: Km c) Kuchha/WMM: Km	a) CC/CB: 84.200 km (up to PCC/CB) b) BT: 5.621 km (up to WBM) 5.621 km (up to PMC layer with seat coat) a) WBW/Kuchha: 12.395 km
		Balance Restoration	a) CC/CB: 0.825 km b) BT: 0 km c) Kucha: 0 Km
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	CRMC Building	2	Civil work up to finishing level completed. Water supply, sanitary and furnishing work is in progress.
	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: 3.258 Km b) Laid: -1.911 Km c) Testing: NIL d) Commissioning: NIL
	RCC Pipes	2.55 Km	a) Supply: NIL b) Laid: -NIL 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 30.09.2023			
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 Name of Contractor- M/s. Larsen & Turbo Limited Contract type- Design, Build and Operate Date of Start- 18.5.2021 Cumulative Physical Progress 68.0%% Stipulated Date of completion – 16.5.2024	Wastewater			
	Item	Scope of work	SIP Scope	Progress
	STP (01 No.)	7.7 MLD	7.7 MLD	- The BEP of C Tech STP approved. Admin Building: 1st floor brick work is in progress and ground floor and Blower foundation steel binding. Mummy casting work is completed and de shuttering work is in progress. Bloor room 1st floor casting work is completed. And Mumti staircase steel Cutting work is running. Chlorinator cum MCC Room casting is 100% completed. Casting of Columns completed 100 % up to Roof Slab of Workshop cum Store Room. Casting of Roof Slab for Ladies and Gents Toilet 100 % completed. Air Blower Room 100 % completed and Laying of Reinforcement Steel for Remaining Tie Beam is in progress. SBR: Railing work has been almost completed and final walk way casting has been completed. stand of railing fixing work is almost completed. Decanter foundation work is completed. PTU: Hydro test work is running. And Railing & grouting work has been almost completed. Conveyer, Screen chamber shifting work is running. Staff Quarters: Mummy slab de shuttering work is in progress. 1st Floor slab casting work is completed. And 4th lift flight staircase casting is completed. EMI: Out of 25 Items, 3 item procurement. 12 QAP's are approved, under review, 0 resubmission pending, and total 1st submission is pending of 10 items. MPS: - walk way side DE shuttering g work is running. Vertical circular final left casting & DE shuttering work is completed. And backfilling work is completed.
	SPS (02 Nos.)	SPS-1: 2.3 MLD (Jhalara Road)	SPS-1: 2.3 MLD (Jhalara Road)	- The BEP submitted by Contractor on dated 22.02.2022. SPS 1: Shuttering and steel binding of DG work is in progress and transformer work is running. Control room and Guard room Internal plaster is completed and External plaster is completed. Laying of Brick Masonry for Parapet Wall for Guard Room and Control Room 100 % completed.

				Laying of Reinforcement Steel for Lintel Beam 100 % completed for Guard Room and Control Room. EMI: Out of 13 Items, 2 item procurement, 3 QAP's are approved, 0 under review, 0 are pending for resubmission, and total 1 st submission is pending of 8 items.
		SPS-2: 1.80 MLD (Matabhar Road)	SPS-2: 1.80 MLD (Matabhar Road)	- The BEP submitted by the contractor on dated 22.2.2022. Security guard room and Metering room: Boundary wall plaster work is running. and plaster work is running at meter room & control room. Sump work is 100 % completed. Brick work is completed up to roof level and guard room. EMI: Out of 13 Items, 2 item procurement, 3 QAP's are approved, 0 under review, and 0 pending resubmission pending total 1st submission is pending of 8 items.
	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) - 78694 mtr 250mm (HDPE PE- 100/PN-6) -5925 mtr 250MM (HDPE DWC SN8) - 1096 mtr 315mm (HDPE PE- 100/PN-6) -1361 mtr	a) Supply: 88.435 Km (200 mm DWC) b) 0.108 km (250 mm DWC) c) 8.825 km (250mm HDPE trenchless) d) 1.462 Km (315mm HDPE trenchless) Laid Pipe Line: - Laid: -86.740 Km (200 mm DWC) a) Laid:0.108 Km (250mm DWC) b) 7.779 (250mm HDPE trenchless) c) 1.236 Km (315mm HDPE trenchless) d) Testing:82.260 Km (200mm DWC) e) Testing:0.108 Km (250mm DWC) a) Deflection test:81.230 km (200 mm DWC) b) Testing:7.370 Km (250mm HDPE trenchless) c) Testing:1.231 Km (315 mm HDPE trenchless) d) Testing: 0.533 Km (400 mm HDPE Trenchless) e) Commissioning – Nil
	Outfall (above dia 315)	350mm (RCC NP-4)- 3076 mtr 400mm (RCC NP-4)-62 mtr	350mm (RCC NP-4) - 3076 mtr 400mm (RCC NP-4) – 62 mtr 400mm (HDPE	a) Supply: 2.287 km (350mm RCC pipe) b) Laid: - 2.094 km (350mm RCC) c) Supply: 0.859 (400mm HDPE) d) Laid: - 0.840 km (400mm HDPE) c) Testing: 2.054 km (350 mm RCC pipe) d) Commissioning: NIL

		• 400mm (HDPE PE-100/PN-6)-533 mtr (SIP 859.65 mtr) • 1200mm(RCC NP-4)-500 mtr	PE-100/PN-6) – 859.65 mtr • 1200mm (RCC NP-4) – 500 mtr	
PVC-U Pipe (110 & 160 mm dia)	• 110mm-78660mtr • 160mm-10340mtr	• 110mm – 41772 mtr • 160mm – 5490 mtr	a) Supply: 50.994 Km (110 mm) 4.992 km (160 mm) b) Laid: - 31.307 km (110 mm) : - 3.193 km (160 mm) c)Testing: 30.936 km (110 mm) 2.945 km (160 mm) d) Commissioning: NIL	
Manholes (All types)	6806 Nos.	4253 Nos	a) Supply: 4746 nos b) Installation: 4634 Nos. c) Testing: 3880 Nos. d) Commissioning: NIL	
Inspection Chamber (All types)	8900 Nos.	9717 Nos	a) Supply: 7635 nos b) Installation: -7247 Nos c) Testing: 7168 Nos. d) Commissioning: NIL	
House Sewer Connection	8000 Nos.	7877 Nos	HSC fully Installation: - 777 Nos HSC up to Chamber -1845 Nos	
DI Pumping main	200mm-800Mtr 250mm-800Mtr	250mm-700Mtr 300mm-1000Mtr	a) Supply: 0.654km (250 mm), 1.000 Km (300 mm) b) Laid: - 0.412 km (0.250 mm), 0.906Km (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		• CC-30.571 km • Interlocking tiles: 4.284 km • BT-4.262 Km (upto WMM) • WMM – 1.529 Km • Kuccha: - 51.113 Km
Road Restoration		c) CC: Km d) Interlocking tiles: Km c) BT: Km d) WMM: Km e): Kuchha : Km		a) CC:30.555 Km b) Interlocking tiles:4.284 Km c) BT:4.262 km (up to WMM) d) WMM: 1.529 KM e) Kuccha/WMM: 51.113km
Building and Miscellaneous work				

	Item Description	Scope of Work	Progress made so far
	CRMC Building	1	Fixing of aluminium partition, Ac and chair 100 completed. Fixing of Aluminium Doors, Windows and Aluminium 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.
	CCC Building	-	-
	MCC Building	-	-
	PLC SCADA	-	-
	Trenchless Work		

Town: Khetri

Contract description	Cumulative Progress of works up to 30.09.2023			
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- 55.0 %	Water Supply			
	Item	Scope of work	SIP Scope	Progress
	Total distribution network	50.38 km	54.823 km	a) Supply: 54.823 Km b) Laid: - 42.750 Km c) Testing: 21.991 Km d) Commissioning Nil
	HDPE Pipe (Dia. 20,25 & 32 mm)	22 km	22 km	a) Supply: 22 Km b) Laid: - 9.095 Km c) Testing: Nil d) Commissioning: Nil
	DI Pipe K7	44.11 Km	48.28 km	a) Supply: 48.28 Km b) Laid: -37.707 km c) Hydro Testing: 21.379 km d) Commissioning: Nil
	DI Pipe K9	6.274 km	6.535 km	a) Supply:6.535 Km b) Laid: -5.043 Km c) Hydro Testing: 0.612 km d) Commissioning: Nil
	House Service Connection	4400 Nos	4400 Nos	a) Laying/Installation: -1925 Nos. b) Testing: Nil c) Commissioning: NIL
	Domestic Water Meter	4400 Nos	4400 Nos	a) Supply: Nil b) Installation: -Nil c) Testing: Nil d) Commissioning: Nil
	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

Stipulated Date of completion – 20.03.2024				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.	JEn campus: . Roof slab casting work is completed (45%). AEn Campus: Brick masonry work is completed (62%).
	CWR (500 KI)	1 nos.	1 No.	Civil work Completed.
	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-Platform slab casting work completed, • MPS-7th lift vertical wall casting work is completed, Beam R/F binding and shuttering work is going on. • Course screen Channel-Walkway Slab R/F binding & shuttering work is going on. • Staff-Quarter-Plaster work completed. • TEER-Top dome slab casting work completed; • Admin Building & CCT - Excavation work under progress.(28.40%).
	Lateral Sewer (up to dia 315)	31.325 Km	32.556 km	a) Supply: 25.608 Km b) Laid: -25.019 Km c) Testing: 16.092 Km d) Deflection Test: Nil d) Commissioning: Nil
	Outfall (above dia 315)	2.897 Km	2.522 km	a) Supply: 2.420 km b) Laid: - 2.254 km c) Testing: Nil d) Commissioning: Nil
	PVC-U Pipe (110 & 160 mm dia)	45.0 Km	20.480 km	a) Supply: 10.468 Km b) Laid: - 6.792 Km c) Testing: 1.800 km d) Commissioning: NIL
	Manholes (All types)	2231 Nos.	1857 Nos.	a) Supply: 1231 nos b) Installation: -1175 Nos. c). Testing: 515 Nos. d) Commissioning: 0 nos.
	Inspection Chamber (All types)	4500 Nos.	4146 Nos.	a) Supply: 1584 nos b) Installation: -1295 Nos.

				c) Testing: 515 nos. d) Commissioning: Nil.
	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 c) Kuchha/WMM: Km	• CC-26.360 Km • BT-0.550 Km • Kuccha/WMM: - 4.223 Km	26.360 km of CC cutting is for water supply & sewer work 0.550 km of BT cutting is for water supply work. 4.223 km of Kachha / WMM cutting for water supply and sewer work.
	Road Restoration	a) CC: Km b) BT: Km c) Kuchha: Km	a) CC: 26.675 km (up to PCC) 26.545 km (up to CC) b) BT: 0.0 km (up to WMM) 0.550 km (up to BT) c) Kuchha: 4.223 Km	22.975 km of water supply and sewer work and 2.850 km of water supply.
	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 30.09.2023			
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 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- 68.0 % Stipulated Date of completion – 20.03.2024	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: - 120.320 Km c) Testing: 74.558 Km d) Commissioning: Nil
	HDPE Pipe (75 mm to 250 mm dia.)	108.40 km	112.589 Km	a) Supply: 114.831 Km b) Laid: - 114.803 Km c) Testing: 74.558 Km d) Commissioning: Nil
	DI Pipe K7 (100 mm to 350 mm)	6.62 Km	6.947 Km	a) Supply: 6.947 km b) Laid: - 4.456 km c) Hydro Testing: Nil d) Commissioning: Nil
	DI Pipe K9 (100 mm to 150 mm dia)	1.89 km	1.89 km	a) Supply: 1.893 km b) Laid: - 1.060 km c) Hydro Testing: Nil d) Commissioning: Nil
	HDPE pipe (20,25,32 mm)	27.0 km	27.0 km	a) Supply: 27.0 km b) Laid 14.025 Km c) Hydro testing: 6.150 Km d) Commisioning: 0.0 Km
	House Service Connection	5400 Nos	6426 Nos.	a) Laying/Installation: -4393 Nos. b) Testing: 2654 Nos. c) Commissioning: NIL
	Domestic Water Meter	5400 Nos	6426 Nos.	a) Supply: 6426 Nos. b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
	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 completed & Plaster work in progress.
	CWR (500 KI)	1 no.	1 no.	Drawing approved on 13.09.2022. Top dome casting completed. Finishing work in progress.

	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 in progress.
	Population benefitted due to commissioned	25610	25610 souls	
	Wastewater			
	STP (01 no.)	3.90 MLD	3.90 MLD	GAD, lay out plan and flow diagram drawing are approved. Civil work completed in MPS. SBR Outer wall completed. No work at TEER. Finishing work at Admin Building completed. Ground roof slab casting of Blower Room complete at Process Building & brick work of 1 st floor in progress. Metering Room completed. Column completed up to channel at PTU.
	SPS (0.40 MLD)	1 No.	1 No.	Structural design and drawing are approved. SPS plaster work completed. Metering room plaster work completed. PMCC & SCADA Room roof slab 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: Nil d) Commissioning: Nil
	Outfall (RCC NP-4, 400 mm dia)	1.0 Km	1.0 Km	a) Supply: Nil b) Laid: - Nil c) Testing: 0 km d) Commissioning: Nil
	PVC-U Pipe (110 & 160 mm dia)	43.50 Km	21.930 Km	a) Supply: 21.930 Km b) Laid: -13.195 Km c) Testing: Nil d) Commissioning: NIL
	Manholes (All types)	3664 Nos.	3053 Nos.	a) Supply: 2799 nos b) Installation: -2719 Nos. c). Testing: 1045 Nos. d) Commissioning: Nil
	Inspection Chamber (All types)	4350 Nos.	5140 Nos	a) Supply: 4154 nos b) Installation: - 3383 Nos. c) Testing: 0 Nos. d) Commissioning: NIL
	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-0.530 Km - Kuccha/WMM: - 76.550 Km - Interlock tiles :- 4.110	15.470 km of CC & 1.950 Km interlock tiles road cutting for water supply & 34.850 km cc & 2.160 Km interlock tile road for sewer work.
Road Restoration	a) CC: Km b) BT: Km c) Kuchha: Km	a) CC: 50.050 km (up to PCC) 50.005 km (up to CC) b) BT: 0.0 km (up to WBM) 0.0 km (up to BT) c) Kuccha: 76.550 km d) Interlock Tiles:- 4.110 Km	Kachha road 62.100 for water supply & 14.450 km for sewer work
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.
CCC Building	1 No.	1 No.	
MCC Building	1 No.	1 No.	Painting work completed.
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: -4.700 km c) Testing: 0.600 km d) Commissioning: Nil
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**.

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. 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 location in
1.	Abu Road	CWPH – 6 nos	CWPH are 5 nos (Gandhi Nagar pump house has been deleted from the scope)	-	-
		Water Supply distribution Network- 134 km	Water supply distribution network 138.56 km	-	-
		Sewage network 100.90 km	Sewerage network 99.693 km.	-	-
2	Sirohi	Intake well, - 2nos (7.40 MLD water from Angore Dam 3.90 MLD from Kalkaji dam)	Intake well -1 Nos 8.6 MLD capacity at Angore dam (Intake well at Kalkaji dam is dropped from scope)	-	-
		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	Raw water main- 5.257 km (from Angore Dam to WTP) Raw water main from Kalkaji dam to WTP has been dropped		
		CWR and pump house in Kalkaji HW, Capacity-580 KL	CWR and pump house in Kalkaji HW, Capacity-1450 KL		
		Clear water reservoirs (CWR) 4 nos new (750 KL, 470 KL, 580 KL and 270 KL)	Clear Water reservoir and pump house (580 KL) at Kalkaji HW have changed from 580 KL to 1450 KL		
		Transmission mains – 36.76km	Transmission main 24.730 km	-	-
		Water Supply distribution network- 117.40 km	Water Supply distribution network-129.2	-	-
		Sewer collection network- 93.46 km	Sewer collection 80.66 km	-	-
		Treated Effluent Elevated Reservoir	Treated Effluent Elevated	-	-

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
		(TEER) – 2 no.s (550 KL and 240 KL)	Reservoir (TEER) – 2 nos and their capacity is revised from 550 KL to 500 KL and from 240 KL to 170 KL.		
3	Laxmangarh	Water supply distribution networks (162.64Km) including House service connection of 9007	Water supply network decreased from 162.64 km to 161.04 km -		
4	Ratangarh	Sewage collection network including manholes & 144.63 km trenchless	Sewerage collection network length increased from 144.33 km to 145.317 km	CRMC-2 Building premises of SPS in Main Ginani	- CRMC-2 Building 3.8 MLD STP premises near NH-11.
5	Sardarshahar	-	-	CWR (2400 KL)- North west corner of the campus of Public health engineering department (PHED) at Hanumangarh Road	CWR (2400 KL)- South west direction in the campus of PHED Office
		Water supply distribution networks – 193 km	Water supply distribution networks length increased from 193 km to – 260.519 km	-	-
		Sewage Pumping Station (SPS) – 2 nos	1 SPS is not considered due to non availability of NOC for land.	-	
		Manhole with pumping Stations (MWPS)-0	Two MWPS, one near Krishi Mandi (0.6 MLD) and another at Bahadur Singh Colony (0.6 MLD) are added in the scope.	-	-
		Sewer Networks- 68 km	Sewer 61.527 km		
6	Fatehpur	Sewage Collection networks – 92.4 km with trenchless laying of sewer 15.12 km	Sewage Collection networks – 100.57 km with 15.09 km trenchless laying	-	-

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
		Rising Mains for Pumping the Sewage – 3200 m.	Rising main length decreased from 3200 m to 2890 m		
7	Pratapgarh	Sewage collection network -104.68 km	Sewage collection network -117.743 km	STP (7 MLD) near Kila Road	STP (7 MLD) near Gupt Ganga Temple area
		Construction of one CRMC building	A new CRMC building is added thus now 2 CRMCs are there		
8	Banswara	Transmission system of 15.80 Kms of pipe dia from 100 mm to 500 mm of DI K-9 Pipes	transmission main 8.87 km	SPS-2 (1.70 MLD) Pratapgarh Raod	SPS-2 (1.70 MLD) Pratapgarh Raod which is 500 m away from previously proposed location
		Distribution network of 286.70 Km	Distribution network of 353.675 km	CRMC1- Pratapgarh Road	CRMC1- Housing Board Colony.
		sewage collection system- 89.0 Kms including 4,3 km trenchless	sewage collection system- 108.164 km including 6.040 km trenchless	CRMC2- Kagdi Pickup to Khandu Colony.	CRMC2- Khandu Colony.
9	Didwana	Sewage collection network – 61.00 km	Sewer collection network 49.78 km	SPS -1 (1.7 MLD) Degana Road	SPS -1 (1.7 MLD) near Salt Lake area.
		-	-	CRMC building RSEB powerhouse campus	CRMC building near Post office
10	Khetri	Water Supply Distribution network- 44 km	Distribution network 54.283 km	STP (3.15 MLD) Near Kharia Kua	STP (3.15 MLD) Village Nanu wali Bawdi Khasra No 984-988, Khetri
		Sewage collection network – 34.0 km	Sewer network 34.778 km	-	-
11	Kuchaman	Water supply distribution network 313.746 km	Water supply distribution network 417.64 km	--	-
		Sewage collection network Length: 149.77 m including 8.2 km trenchless	Sewage collection network Length: 160.77m including 10.118 km trenchless	-	-
12	Makrana	Sewage collection network 95.04 km including 11.61 kms Trenchless	Sewage collection network 95.11 km including 11.69 kms Trenchless	SPS-1 Jhalara Pond,	SPS-1 Jhalra Pond at South-West Corner of Rajput Samaj Shamshan Ghat.

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
		-	-	2. SPS- near Sheetla Mata Sewa Samiti	2. SPS-2 Matabhar road.
		-	-	CRMC building near Jhalra Pond	CRMC building near Nagar Parishad and Fire Station Office
13	Mandawa	Water Supply Distribution network-108.4km	Water Supply Distribution network-12.589	-	-
		Clear Water Reservoir (CWR)- 1 Nos. of 1200 KL capacity	Clear Water Reservoir (CWR)- 1 Nos. of 550 KL capacity	-	-
		Transmission mains from CWR to OHSR/ESR - Length- 0.98 kms	1. Transmission mains from CWR to OHSR/ESR - Length-6.947 kms	-	-
		Rising Main - Length -0.91 km	Rising Main - Length -1.89 km	-	-
14	Ladnu	Sewerage network 127.100 km	Sewerage network 1212.739 km	STP 2.4 MLD Vishwanathpura	STP 2.4 MLD Sujangarh Road

2. COMPLIANCE STATUS WITH NATIONAL/ STATE/ LOCAL STATUTORY ENVIRONMENTAL REQUIREMENTS

11. 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	Permission for utility shifting
	1	2	3	4	5	6	7	8	9
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 31/12/2023 WC Policy valid up to 30.03.2024	• Not required	• No Utility shifting is required up to this reporting period
2		Fatehpur Sewerage	Not required	No tree cutting is required	Not required	• National Highway Crossing: Permission obtained vide letter no. NHA/PIU/Sikar/RBF S/2022-23/508 • Railway Crossing: Permission obtained vide letter no. NWR-JP-2022-WL-19	Labour License Valid up to 31/12/2023 WC Policy valid up to 30.03.2024	• 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	• No Utility shifting is required up to this reporting period

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	Permission for utility shifting
								Works 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 WC Policy valid up to 30.03.2024	• Not required	• No Utility shifting is required up to this reporting period
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/Km4 6/4/SRDR /2021/03 dated 12.08.2021 for WW pipe line and	Labour License Valid up to 31/12/2023 WC Policy valid up to 30.03.2024	• Not required	• No Utility shifting is required up to this reporting period

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	Permission for utility shifting
						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	In Abu Road Town, some portion of raw water pipe line from intake to WTP is proposed through earthen pathway in forest areas, which requires forest clearance from Department of Forest. PIU has submitted application to divert 3.6795 ha of forest land through	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 31.12.2023 WC Policy valid up to 30.03.2024	• Not required	• No Utility shifting is required up to this reporting period

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	Permission for utility shifting
			proposal no. FP/RJ/WATER/145797/2021 dated 13.08.2021. Permission is till awaited from Forest Department, Sirohi.						
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 1 tree at STP (1.7 MLD) at Revdar Road	Not required	• National Highway Crossing: NIL • Railway Crossing: NIL	Labour License Valid up to 31.12.2023 WC Policy valid up to 30.03.2024	• DD Deposited to PWD for Road cutting permission Permission obtained	• No Utility shifting is required up to this reporting period

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	Permission for utility shifting
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 31.12.2023 WC Policy valid up to 24.11.2023	• Permission obtained for road cutting from PWD.for 3 roads.	• No Utility shifting is required up to this reporting period
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: Permission for National Highway 113 crossing has been obtained vide letter no/ 2021/22/1006 dated 21.01.2022 • Railway Crossing: NIL	Labour License Valid up to 31.12.2023 WC Policy valid up to 27.03.2024	• Permission Obtained from PWD, RSRDC and RVUNL for Road cutting	• No Utility shifting is required up to this reporting period
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	• Not required	• No Utility shifting is

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	Permission for utility shifting
							Valid up to 31.12.2023 WC Policy-Valid up to 03.05.2024	(All roads are Municipal Roads)	required up to this reporting period
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 31/12/2023 WC Policy-Valid up to 30.03.2024	• Not required	• No Utility shifting is required up to this reporting period
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 WC Policy-Valid up to 30.03.2024	• Not required	• No Utility shifting is required up to this reporting period
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	Not required	• State Highway Crossing: Permission obtained for SH crossing from PWD vide letter no. PIU/ PPP /Laxmangarh/MMB/Utility/21-22/D-601 dated 11.01.2022	Labour License Valid up to 31/12/2023 WC Policy-Valid up to 30.03.2024	• Permission Obtained for Road cutting.	• No Utility shifting is required up to this reporting period

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	Permission for utility shifting
				dated 16.12.21 with plantation of trees with its thrice capacity		• Railway Crossing: Permission for Railway crossing obtained vide letter no. Letter No: - Application ID: NWR-JU-2022-WL-263 dated 24-09-2022			
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 WC Policy-Valid up to 30.03.2024	• Not required	• No Utility shifting is required up to this reporting period
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 WC Policy-Valid up to 09.03.2024	• Not required	• No Utility shifting is required up to this reporting period
15	(FSTP 4 Town Cluster 01)	Not required	Not required	Not required	Not required	• Not required	Labour License Valid up to 31/12/2023	• Not required	• 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	Permission for utility shifting
							WC Policy valid up to 21.01.2024		
16	(FSTP 9 Town Cluster 02)	Not required	Not required	Not required	Not required	Not required	Labour License Applied under Acknowledgement Receipt WC Policy valid up to 12.06.2024	• Not required	• 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 applied on dated 28.06.2023
11	Sirohi	1.7 MLD		Near Revdar Road	CTE Issued, Valid from 11.02.2021 to 31.01.2026	
12	Sirohi		9 MLD	Angore PHED campus	CTE Issued, Valid from 31.03.2021 to 28.02.2026	

S.No.	Town	Capacity of STP	Capacity of WTP	Location	Status of CTE	Status of CTO
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 Applied Status Pending at RSPCB
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 applied and status pending at RSPCB
2	Shahpura (Jaipur)	12 KLD	Khasra no. 3703, Pratappura near Ramnivas Bagh	
3	Bandi Kui	16 KLD	Khasra no. 1378/899, near Rajesh Pilot Hostel on Abhaneri Road	
4	Jobner	4 KLD	Khasra no. 137 in Pratappura village	
5	Bari	23 KLD	Khasra no. 6073, Bari	
6	Deeg	15 KLD	Near old Chungi, Naka/Malipura Road at Khasra no. 1041, Deeg	
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	
9	Bhawani Mandi	12 KLD	village Pachpahaad, Jhalawar, Khasra no. 80, Bhawani Mandi	
10	Shahpura (Bhilwara)	12 KLD	Shahpura village at Khasra no. 3940, Shahpura (Bhilwara)	
11	Gangapur (Bhilwara)	5 KLD	Khasra no. 3703 in Meluni Khera village, Shada tehsil, Gangapur	
12	Bhinder Kanor	8 KLD	Gopalpura Village at Khasra no. 211/2, Kanor	
13	Pilibanga (Hanumangarh)- Suratgarh (SriGanganagar)	14 KLD	Lakhuwali Road at Kila number 16-20, Murabba number 21, Patthar number 26/313, PBN Chak, Pilibanga	

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	
Didwnana	• 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 RPPs (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

12. 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.

13. 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.

14. 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 **Appendix 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	B	C	C	NA	NA	NA	DBO Contract or
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:	- Project components away from environmentally sensitive areas - Reuse plan for treated effluent - Energy efficient design	- C - BC* - C - BC	- C - BC* - C - BC	NA NA NA	- C - BC* - C - BC	- C - BC* - C - BC	- C - BC* - C - BC	- C - BC* - C - C	- C - BC* - C - C	- C - BC* - C - BC	- C - BC* - C - BC	- C - BC* - C - BC	- C - BC* - C - BC	- C - BC* - C - BC	- C - BC* - C - BC	DBO Contract or/ PIU/ CMSC/P MCBC

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	
- 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	- ACM management plan - FSSM plan for areas where sewerage networks are not feasible	NA C	C C	C NA	C C	C C	C C	NA C	C C	C C	C • C	C • C	NA • C	NA • C	NA • C	*Reuse plan for treated effluent is being prepared for the towns in consultation with ULBs
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	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	DBO contractor/PIU/ PHED
Groundwater contamination: - Prepare a source protection plan for tube wells and open wells - Ensure proper construction of tube wells including casing 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	Tube wells and open wells	NA	NA	NA	BC	BC	BC	NA	NA	BC	BC	NA	NA	NA	NA	PHED/PIU
Water Treatment Plant (WTP) - Inefficient treatment, treated water characteristic not satisfying the standards: Design treatment process that is suitable for raw water	- Design parameters of WTP meeting with national standards - Raw water quality test reports	NA	NA	NA	NA	C	C	NA	C	NA	NA	NA	NA	NA	NA	DBO Contract or/ 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	
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	• Treated water quality test reports															
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 dewatered sludge • 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 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, 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
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	• 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														
• Develop emergency response procedures																													
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	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	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																												
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.	• 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	DBO Contract or and PIU / PMU														

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	
Conduct regular wastewater quality monitoring (at inlet and at outlet of STP) to ensure that the treated wastewater quality complies with the effluent standards																
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: - 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	- Consent to Establish from RSPCB - Reuse plan of treated effluent - STP effluent- monitoring - Water Quality monitoring of receiving water body	- C - BC* - TC# - BC	- C - BC* - TC# - BC	NA	- C - BC* - TC# - BC	- C - BC* - TC# - BC	- C - BC* - TC# - BC	- C - BC* - TC# - BC	- C - BC* - TC# - BC	- C - BC* - TC# - BC	- C - BC* - TC# - BC	- C - BC* - TC# - BC	- C - BC* - TC# - BC	- C - BC* - TC# - TC	- C - BC* - TC# - TC	Contract or/PIU *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 /	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

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	
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)															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 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	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
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 entre in the SPS premises - Plantations should be provided if space available to reduce foul smell of sewer during operation	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	
- 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 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	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 - Provide proper training to the workers, and staff in safe handling of FSSM tasks, provide all necessary personal protection equipment	FSSM plan and design covering all these requirements	C	C	NA	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	
• 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: a. 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 b. Conduct awareness training to contractor & supervision staff prior to start of excavation; c. 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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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 • (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	• 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	
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)														Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MNW	KMN	DID	MKR	LDN	
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	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

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	
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																
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 measures are taken to ensure they are protected and conserved	Chance finds protocol	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO Contractor/ CMSC and PIU
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	• 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

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	
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.																
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 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	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
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	ACM plan covering all these requirements	NA	NA	BC	BC	BC	BC	NA	BC	BC	BC	BC	NA	NA	NA	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	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MNW	KMN	DID	MKR	LDN	
- 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																

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)														Responsibility
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
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/ PIU/ PMCB/ CMSC
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	- 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	
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 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	• 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		
- Install temporary silt traps or sedimentation basins along the drainage leading to the water bodies; - 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; - 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.	- 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)														LDN	Responsibility
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR			
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	
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	- 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)														Responsibility
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
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. - 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	- Site specific EHS Plan - Work plans - Use of PPEs by workers - Safety signage and information boards - Drinking water and rest sheds	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		
guidelines: IFC's General EHS Guidelinesⁱ⁴ and 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 exposed to hazardous or noxious substances; - Provide H and S orientation training to all new	- 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	
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: • 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	• Site specific EHS Plan • Work plans • Use of PPEs by workers • 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	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			
- 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																	
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. - 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	- 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/ CMSC	
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	

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		
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 • 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	• 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)														Responsibility	
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN		
• 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 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: • Consult with PIU before locating project offices,	• Approval of site from PIU • Tree cutting for camps • Facilities for workers e.g. ventilated rooms, first aid, crèche,	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	
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.	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 suspected and take any action, they require to ensure its removal or protection in situ	• 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	
Monsoon preparedness - Disruption of utilities and water logging in trenches: • As for a possible avoid trench works and	• Monsoon preparedness plan	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	
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	• Emergency response plan															
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. • If these vulture species are present, the design shall ensure that breeding areas are not directly affected by the proposed	• 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
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
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	- Design of intake - Methodology of intake construction works - Maintenance of construction machineries to prevent any oil spillage	C C BC	PIU / CMSC with the assistance of PMCBC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Compliance Status	Responsibility
- 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	- Safety arrangement at intake site - Work schedule	BC BC	
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

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Compliance Status	Responsibility
Construction Phase			
Ratangarh			
Construction of CRMC at Main Ginani - Safe disposal of Solid waste accumulated at Ginani, workers and public safety (In Ratangarh): • 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	• Work plan • Design approval • Site safety including signage, barricades, project information boards • Removal of solid waste before start of works • Tree cutting • Noise level monitoring during construction works	C	DBO Contractor
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	Satisfactory	No any
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

15. **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.

16. **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.

17. **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.

18. **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.

19. 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.

20. 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.

21. **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, Max	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, Max	30	100	IS 3025 (Part 46)	—
xiv)	Manganese (as Mn), mg/l, Max	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, Max	0.5	No relaxation	Clause 6 of IS 3025(Part 39) Infrared partition method	—
xvi)	Nitrate (as NOA mg/l, Max	45	No relaxation	IS 3025 (Part 34)	—
xvii)	Phenolic compounds (as C ₆ H ₅ OH), mg/l, Max	0.001	0.002	IS 3025 (Part 43)	—
xviii)	Selenium (as Se), mg/l, Max	0.01	No relaxation	IS 3025 (Part 56) or IS 15303*	—
xix)	Silver (as Ag), mg/l, Max	0.1	No relaxation	Annex J of IS 13428	—
xx)	Sulphate (as SO ₄) mg/l, Max	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, Max	0.05	No relaxation	IS 3025 (Part 29)	—
xxii)	Total alkalinity as calcium carbonate, mg/l, Max	200	600	IS 3025 (Part 23)	—
xxiii)	Total hardness (as CaCO ₃), mg/l, Max	200	600	IS 3025 (Part 21)	—
xxiv)	Zinc (as Zn), mg/l, Max	5	15	IS 3025 (Part 49)	—

NOTES

- 1 In case of dispute, the method indicated by '*' shall be the referee method.
- 2 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)

22. 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

23. 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 14 towns (Banswara, Kuchaman, Didwana, Ladnu, Makrana, Khetri, Abu Road, Pratapgarh, Sardarshahar Mandawa, Sirohi, Fatehpur, Laxmangarh 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: Summary of Environmental Monitoring conducted under RSTDSP during April 2023 to September 2023

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	18.05.2023 to 22.05.2023	- STP Construction Site - Construction Site JEn Campus - Construction Site AEn Campus - Construction Site Nr. Polo Ground - Construction Site Nr. Lahoty Store Yard	- 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 60.45 to 78.25 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 33.47 to 40.14 $\mu\text{g}/\text{m}^3$) 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 53.5 to 57.1 dBA and night time results ranges from 43.5 to 47.5 dBA. Results show that during day time noise quality results were slightly higher at 3 locations and during night time, noise quality results were slightly higher at 4 locations as per the national standards as well as ADB SPS recommended standards for residential areas at all locations.
2	Pratapgarh	Construction	- Air Quality, - Noise Quality, Ground - Water Quality, - Soil Quality	13/06/2023 to 16/06/2023	- Near Reliance petrol pump - Sewerage Treatment Plant (STP) - Sewerage pumping Station (SPS)	- 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 77.82 to 83.14 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 32.14 to 37.92 $\mu\text{g}/\text{m}^3$) 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 3 locations. Day time results ranges from 58.0 to 62.0 dBA and night time results ranges from 42.0 to 45.0 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS

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
						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 all 3 locations.
3	Abu Road	Construction	- Air Quality, - Noise Quality, Ground - Water Quality, - Soil Quality	20/06/2023 to 21/06/2023	- Manpur CWR - Manpur Workmen Camp - Near STP & WTP Santpur - Near Office (Sigha 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 67.76 to 71.76 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 27.43 to 31.64 $\mu\text{g}/\text{m}^3$) 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 53.76 to 58.64 dBA and night time results ranges from 42.12 to 43.65 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 all 4 locations.
4	Kuchaman	Construction	- Air Quality, - Noise Quality, Ground - Water Quality, - Soil Quality	20.06.2023 to 27.06.2023	- STP Near Bus Stand - L&T Labor Colony - L&T Site 600 KL, Near PHED office - SPS Site 2 Near RUIDP Office - Pipe Laying Site - 1 Lawariyawas - SPS Site 1	- 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

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
					Pipe Laying Site – 2 New Colony	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.
5	Sirohi	Construction	- Air Quality, - Noise Quality, - Ground - Water Quality, - Soil Quality	21/06/2023 to 22/06/2023	- 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 62.53 to 78.42 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 28.9 to 36.6 $\mu\text{g}/\text{m}^3$) 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 55.3 to 60.5 dBA and night time results ranges from 43.3 to 46.7 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 slightly higher than 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,	22.06.2023 to 24.06.2023	- SPS - 1 (PHED Campus) Besides SPS Site - CWR Site - 1 - STP Site - 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 70.21 to 79.13 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 31.5 to 37.7 $\mu\text{g}/\text{m}^3$) values in all 4 locations are more than applicable ADB SPS

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		Pipe Laying Site (Dumra Ki Dhani)	limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 4 locations. Day time results ranges from 52.6 to 57.4 dBA and night time results ranges from 44.1 to 46.4 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.
7	Makrana	Construction	- Air Quality, - Noise Quality, - Ground - Water Quality, - Soil Quality	23.06.2023 to 24.06.2023	- SPS 2.3 MLD Site - STP 7.7 MLD Site - SPS 2.1 MLD Site - Pipe Laying Site, Matavar Road	- 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 69.5 to 83.3 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 38.1 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 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 3 locations whereas noise quality results during night time were within prescribed limits as per both standards at all 4 locations.
8	Sardarshahar	Construction	Air Quality,	23/06/2023 to 26/06/2023	STP – 1 (2.3 MLD) South Campus	Air quality monitoring conducted at 6 locations and all results are within national standards for all parameters in all 6 locations, whereas PM10

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 – 2 (3.4 MLD) North Campus - PHED Campus (CWR 2400 KL) - Pipe Laying Zone - 1 1.6 MLD STP (Pre Construction Activity) - MWPS Zone - 2	(ranges from 68.3 to 76.5 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 28.0 to 31.3 $\mu\text{g}/\text{m}^3$) 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 50.4 to 54.8 dBA and night time results ranges from 40.7 to 44.2 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.
9	Didwana	Construction	- Air Quality, - Noise Quality, Ground - Water Quality, - Soil Quality	25.06.2023 to 26.06.2023	- STP 3 MLD Site - Pipe Laying Site - SPS 1.7 MLD Site - SPS 1.3 MLD Site	- 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 58.8 to 68.5 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 33.3 to 41.2 $\mu\text{g}/\text{m}^3$) 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 52.6 to 58.3 dBA and night time results ranges from 37.0 to 41.6 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.
10	Ladnu	Construction	Air Quality,	27.06.2023 to 29.06.2023	- STP -1 (5.5 MLD) Site - STP -1 (2.4 MLD) Site	Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM10

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		- Pipe Laying Site, 1 Near Shiv Temple - Pipe Laying Site, 2 Near Manglam Hospital	(ranges from 57.4 to 76.2 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 35.7 to 47.8 $\mu\text{g}/\text{m}^3$) 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 53.9 to 60.6 dBA and night time results ranges from 39.7 to 41.9 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 3 locations whereas noise quality results during night time were within prescribed limits as per both standards at all 4 locations.
11	Banswara	Construction	- Air Quality, - Noise Quality, Ground - Water Quality, - Soil Quality	27.06.2023 to 29.06.2023	- AEn (PHED) Campus WTP - Kagdi WTP - STP Site - SPS @ Nathelav - Gandhiu Murti Road - Pratapgarh Road	- 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 49.3 to 70.2 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 25.3 to 34.7 $\mu\text{g}/\text{m}^3$) 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 51.0 to 74.0 dBA and night time results ranges from 46.0 to 63.0 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 locations except 1 location at (WTP Kagdi).

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
12	Ratangarh	Construction	- Air Quality, - Noise Quality, Ground - Water Quality, - Soil Quality	27.06.2023 to 29.06.2023	- STP 3.8 MLD Ratangarh - STP 6.1 MLD Ratangarh - SPS 3.8 MLD - SPS 4.6 MLD - Workman Camp Ratangarh - RJ 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 61.0 to 66.5 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 22.17 to 28.79 $\mu\text{g}/\text{m}^3$) values in 3 locations (PM 2.5) 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 52.7 to 64.1 dBA and night time results ranges from 44.1 to 57.2 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards at 4 locations whereas noise quality results during night time 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, - Soil Quality	29/06/2023 to 30/06/2023	- At Nawalgarh Railway Puliya - Naribari Road 4.3 MLD STP - Workmen Camp Bikaner Puliya - Behind Dholi Sati Temple 0.6 MLD SPS fatehpur	- 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 60.6 to 65.2 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 18.6 to 22.0 $\mu\text{g}/\text{m}^3$) values in all 5 locations (other than PM 2.5) 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 63.7 to 67.5 dBA and night time results ranges from 46.2 to 53.6 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS

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
						recommended standards at all 5 locations whereas noise quality results during night time were within prescribed limits as per both standards at all 5 locations.
14	Laxmangarh	Construction	• Air Quality, • Noise Quality, • Ground • Water Quality, • Soil Quality	29/06/2023 to 30/06/2023	• RMC & MCC Office Mansi • Bad ka Balaji • AEn Campus • Store Yard & Labor Camp	• 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 61.7 to 64.4 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 21.7 to 26.1 $\mu\text{g}/\text{m}^3$) values in 1 location (PM 2.5) 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 57.4 to 65.2 dBA and night time results ranges from 44.1 to 49.5 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards at all 4 locations whereas noise quality results during night time were slightly higher than the national standards as well as ADB SPS recommended standards at all 3 locations

8. ASBESTOS MANAGEMENT

24. 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.

25. 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.

26. 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

28. 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

S.N .	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
1.	Towns visited:	Ladnu, Didwana, Makrana and Kuchaman	
	Date of site Visit:	11.05.2023 to 12.05.2023	
	Person visited the Site:	Mr. Vardan Srivastava, Environment Safeguard professional & Mani Kumar, Safeguard Support (Environment & Safety), CMSC-I	
	Discussion with: 1. Mr. Ashok Kumar Jain, Superintending Engineer (SE) & Mrs. Pratibha, Executive Engineer, PIU- Kuchaman Mr. Deepak Mandan, Executive Engineer, PIU/Makrana/Ladnu/ Didwana	• Discussion for development of reuse plan of treated water of STP and also discussed reuse proposal plan of treated water of STP for their beneficial use in different areas 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 following points of draft proposal for uses of treated water of STP were discussed: - • Details of concern town and STP • Schedule of generation of treated water from STP • Details of treated water generation at the time of start of STP operation • Details of reuse proposal points of treated water of STP with concern Chairman & Executive Officer of Nagar Parshad • Identification of suitable industries those can use the balance quantity of treated water after local municipal and agriculture uses • Inventory of nearby Agriculture fields in 1Km to 5 Km radius under the range or under covered head of Treated Effluent Elevated Reservoir (TEER) • Public Consultation in nearby village/Dhani/Ward by PIU, SOT and CMSC staff Reuse of treated water from STP: • Irrigation of agricultural lands • Watering in Public Parks and Civil Nursery under municipal authority (Calculated area required for watering and volume required)

S.N .	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
			• Road side plant watering • Landscape and recreational area irrigation • Underground aquifer recharge • Industrial Process (i.e., Marble Industrial use) • Protection and restoration of marginal areas • Firefighting in urban centers • Various indoor applications within urban complexes • Toilet Flushing in real estate building or Public toilet areas
	2. Mr. Asif Khan Chairman & Mr. Lalit Gupta, AEn Nagar Parishad, Kuchaman Mr. Mr. Rohit Kumar Meel, Executive Officer (EO), Nagar Palika, Didwana Mr. Sunil Choudhary, Executive Officer (EO) & Mr. Anil Saini, AEn, Nagar Parishad, Makrana	• Discussion on reuse proposal of treated water of STP and their beneficial use in different areas and they were appreciated ADB treated water reuse policy and ensure us to get implemented on ground level and signed reuse proposal document (Attached in Annexure 3)	During discussion on reuse proposal of treated water of STP we were addressed them beneficial use of treated water in different areas of their concern town and these are: • Salt Lake dry area sprinkling • Development of Artificial Lake • Watering & Sprinkling on playground and supports academies • Irrigation of agricultural lands • Watering in Public Parks and Civil Nursery under municipal authority (Calculated area required for watering and volume required) • Road side plant watering • Road divider/Median Plantation watering • Landscape and recreational area irrigation • Industrial Process (i.e., Salt Industrial use) • Development of artificial lake and enhance beautification of the town in surrounding dry areas • Firefighting in urban centres • Toilet Flushing in real estate building or Public toilet areas • Transportation washing centre
S.N .	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
2.	Town visited:	Sirohi and Abu Road	
	Date of Site visit:	10.05.2023 to 11.05.2023	
	Person visited the Site:	Dr. Mahaveer Prasad Saini (Environment Safeguard Professional) & Mr. Amit Kumar Chauhan (Environment Safeguard Support PIU Sirohi)	
	Discussion with:		

S.N .	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
	1.Mr. Manish Arora, Superintending Engineer (SE) & Mr. Ashok Kumar Karwasra, Executive Engineer, PIU-Sirohi 2.Mr. Mahendra Samdhani Executive Engineer- Abu Road 3.Mr. Mahendra Mevada, Municipal Chairman, Mr. Sushil Rajpurohit.Commissioner Municipal & Mr Bharat Purohit Junior Engineer (Municipal) 4.Meeting with various Farmers residing in the nearby area STPs of Sirohi and Abu Road Town	Discussion for development of reuse plan of treated water of STP and also discussed reuse proposal plan of treated water of STP for their beneficial use in different areas 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 following points of draft proposal for uses of treated water of STP were discussed: - • Details of concern town and STP • Schedule of generation of treated water from STP • Details of treated water generation at the time of start of STP operation • Details of reuse proposal points of treated water of STP with concern Chairman & Executive Officer of Nagar Parshad • Identification of suitable industries those can use the balance quantity of treated water after local municipal and agriculture uses • Inventory of nearby Agriculture fields in 1Km to 2 Km radius under the range or under covered head of Treated Effluent Elevated Reservoir (TEER) • Public Consultation in nearby village/Dhani/Ward by PIU, SOT and CMSC staff. Reuse of treated water from STP: • Irrigation of agricultural lands • Watering in Public Parks and Civil Nursery under municipal authority (Calculated area required for watering and volume required) • Road side plant watering • Landscape and recreational area irrigation • Underground aquifer recharge • Industrial Process (i.e., Marble Industrial use) • Protection and restoration of marginal areas • Firefighting in urban centers • Various indoor applications within urban complexes • Toilet Flushing in real estate building or Public toilet areas.

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
3.	Towns visited:	Mandawa	
	Person visited the Site:	Mr. Vardan Srivastava, Environment Safeguard professional & Mani Kumar, Safeguard Support (Environment & Safety), CMSC-I	
	Date of site Visit:	12.07.2023	
	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)	- Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines. - Status of Consent to Establish/Operate (CTE/CTO) of batching Plant at STP. - Discussion on development of the reuse plan of treated waste water of STP. - Workers camp facilities - Barricades and safety arrangements at site - Material Stacking and Housekeeping issues at site	- 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. - Informed to contractor representative that application for CTE/CTO of batching plant is still pending so directed to contractor that without obtaining consent, operation of batching plant cannot be started. Prior consent from appropriate authorities (RSPCB) is required for execution of construction activities, as well as extraction of ground water from bore well/tube well Non objection (NOC) is also required from Central Ground Water of Authority (CGWA) at STP site. - For status of conducting agreements for reuse of wastewater between ULBs and end user was discussed with CMSC-01 site staff. It was informed that Executive Engineer, PIU had discussed with ULB official to provide /Allot the land for develop a reservoir for storage a treated water nearby the agriculture land. It was directed to prepare reuse plan for treated waste water with the help of Municipal council. - Required facilities at worker's camp was discussed and instructed to contractor to provide all basic facilities for living in the worker's camps area. - Hard barricading was missing on few structural areas of STP and directed to contractor to provide proper hard barricading at structural area to avoid any incident/accident at site. - 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

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	covered site material with green net to minimize any physical damage. - Site specific control measures disused with them and directed to contractor team to implement the same to comply ADB SPS 2009 guidelines. - No Workers and Site staff medical health check-up was carried on from last few months so directed to contractor to organized medical health check-up for workers at site.

Site Visit Observations – Mandawa Town

S.N.	Town visited, date of visit and name of person conducted site visit	Summary of main findings during site visits	Action taken
	Towns visited: Mandawa Person visited the Site: Mr. Vardan Srivastava, Environment Safeguard Professional & Mani Kumar, Safeguard Support (Environment & Safety), CMSC-I Date of site Visit: 12.07.2023	Sewage Treatment Plant (3.9 MLD) at Bissau road	
		• No proper hard barricades, access, staircase and signage was provided at site	• Provided proper barricades all around the excavation area, Provide proper access and staircase to entre in to the depth, Provide safety signage & Provided emergency measures as per requirement
		• Project information board was noticed at site with emergency contact details and toll free number	• Good practice
		• Batching plant is being established at STP site, but no Consent to Establish (CTE) and Consent to Operate (CTO) is taken from RSPCB	• Take CTO/CTE from RSPCB before installation/operate the batching plant at site. Application applied under application no. 304588, but till date no response occurred on it.
		• Deep excavation was found at nearby MPS area without an outer edge protection of soil collapse down on structural part. No proper safe access for worker to approach the site work.	• Provide Metal Safety Net for soil edge protection to avoid soil collapse down or remove soil heap 1.5m far away from excavated edge and provide safe access for workers to approach the work with proper hand railing at access area.
		• Poor housekeeping was found at site, Rebar's and Shuttering material was placed on the randomly area. There was no safe access to move at site.	• Proper housekeeping should be required before to start the work and after completion of work at site and make ensure all shuttering material and rebar lots should be placed at safe storage area so that safe access provided for workers to do the work safely on site.
		• Sand & aggregate material heap was found at site without green net or tarpaulin	• Make ensure all sand and aggregate material should be covered with proper tarpaulin and green net cover so that to prevent air pollution

S.N.	Town visited, date of visit and name of person conducted site visit	Summary of main findings during site visits	Action taken
		coverage with open dumping of rebar material.	and suspended material dust in surrounding environment.
		Un-hygienic labour washroom was found at site.	EHS officer make ensure that all workers should provide welfare facilities at site with neat and clean facilitated area.
		Poor housekeeping was found at SBR basin and non-standard scaffold erection was found at site.	All working area should be neat and clean and obstruction free. Only authorized competent scaffolder erects the scaffold at site so that prevent any kind of minor or major injury.
		Water tank was found in damage condition.	EHS Officer make ensure all damaged water tank should be replaced with new one and maintained in good working condition
		Uneven working area/platform was found in front of SBR area there may be chances that leads to slip/trip & fall injury.	EHS Officer make ensure that during structural activities has been done low laying structural area should be fill up with excavated earthwork to prevent uneven surface area injury.
		Non-standard scaffold erection was found and workers were working at site without PPE's and full body harness.	All working area should be neat and clean and obstruction free. Only authorized competent scaffolder erects the scaffold at site so that prevent any kind of minor or major injury. Removed non-standard scaffold from site
		Loose sharp edges tin shed material was dumped without putting weight on it and unwanted debris material was dumped.	All sharp edges loose tin material should be covered and placed with proper weight load to prevent body cut injury and removed unwanted debris material time to time before to make it unwanted heap storage at site.
		No edge protection was found at processing building roof area.	EHS Officer ensured that all roof top area should be edge protected with provided life line at structural peripheral areas so that to prevent worker felt down incident/accident and all workers should wear full body harness while work at height.
		JEn Campus	
		Poor housekeeping was found at site, bricks and aggregate material was dumped in front of structural working area. There was no safe access to move at site.	Proper housekeeping should be required before to start the work and after completion of work at site and make ensure all shuttering material and rebar lots should be placed at safe storage area so that safe access provided for workers to do the work safely on site.
		Non-standard scaffold erection was found at site	Only authorized competent scaffolder erects the scaffold at site so that prevent any kind of minor or major injury and removed non-standard scaffold from the site.

S.N.	Town visited, date of visit and name of person conducted site visit	Summary of main findings during site visits	Action taken
S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
4.	Towns visited:	Pratapgarh	
	Person visited the Site:	Dr. Mahaveer Prasad Saini (Environment Safeguard Professional), CMSC – II Jodhpur	
	Date of site Visit:	17.07.2023 to 21.07.2023	
	Discussion with: Commissioner Nagar Parishad, Pratapgarh	Discussed about: Requirement of CTE/CTO for STP and SPS locations and required documents for it.	Generate Project ID on RSPCB website.
		Training Orientation to Workers on Environment & Safety	- Possible risk and safety during Working at height and depth (trench & Pit) - Appropriated Safety during Monsoon Season, Extreme Climatic conditions (Cold & Hot days) and Night Working; - Possibility of accident during excavation of trenches, manhole cleaning, and material handling. - Contractual and legal requirements; - Safeguard provisions in contract documents, pre-construction requirements; - Occupational and community health and safety; - Labour and public safety and labour laws; - Solid waste (domestic, construction, and spoils) management;
	Meeting with Contractor, PIU and CMSC-II Pratapgarh Staff ;	- Discussed about Contractual and Legal Requirement at operation stage of STP. - Requirement of CTE/CTO for STP and SPS locations and required documents for Consents. - Prepared document for CTO under water act for 7 MLD STP.	- Online Application for CTO of 7 MLD STP under Water Act 1974 submitted to RSPCB. - Deposited the Pre-screening fee (Online) to RSPCB for CTO application and generated Challan.

5.	Towns visited:	Banswara	
	Person visited the Site:	Dr. Mahaveer Prasad Saini (Environment Safeguard Professional), CMSC – II Jodhpur	
	Date of site Visit:	30.07.2023 to 02.08.2023	
	Discussion with: Mr. Ashok Jangid, (AEn, PIU RUIDP Banswara), Mr. Ankur Saini, (Support Engineer, CMSC-2, Banswara), Pushpendra Singh (Support Engineer, CMSC-2, Banswara) and Mr. Murgendra Trivedi (Project Manager - BIPLSCHP JV)	Summary of main findings during site visits	Action taken
		9.25 WTP Site	
		Worker were observed without safety shoes while working at iron bar cutting place, shattering for slab cement plastering on CRMC building in WTP campus.	Provided safety shoes to workers to avoid the hazards from iron bar cutting, cement concreting working, Shattering work on temporary metal, plywood, timber, or other materials
		Two nos. Tractors with Private number are using for construction and also tagging duty on RUIDP.	In the Construction work, only commercial vehicles are allowed so either replaces these tractors or changes the personal number registration number by commercial number registration.
		9.6 MLD STP Site at Udaipur Road, Banswara	
		Poor Housekeeping near the Labor room and Electric Panel Room.	Proper housekeeping should be maintained to avoid unpredicted situation of accident.
		Loose electric wire and open electric circuit may be cause of electric hazards at site.	Open electric wire must be closed by plugging and open plug board should be replaced by covered plug boards.

10. ORIENTATIONS FOR SAFEGUARDS

29. 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

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

31. 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.

32. 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**.

33. 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 April 2023 to September 2023)

S. No.	Orientation/Training	Date	Demonstrators	Participants
1	Town: Pratapgarh			
	Orientation regarding requirements of environmental safeguard during project implementation	18.07.2023	Mr. Mahavir Prasad Saini Environment Safeguard professional CMSC-II, Jodhpur	PIU: - Executive Engineer PIU Pratapgarh - AEn Pratapgarh Consultant (CMSC-II): - Mr. Mahavir Prasad Saini, Environmental Safeguard Professional, CMSC-II Jodhpur. Municipal Council: - Elected members of Municipal Cooperation & Councilors and officers of ULB (Pratapgarh) Contractor: - Mr. Ashutosh Kumar (EHS – M/s Khilari Infra Pvt Ltd.) - Workers Total Participants- 04 Male-04 Female-00
2	Town: Banswara			
	Orientation regarding requirements of environmental safeguard during project implementation	31.07.2023	Mr. Mahavir Prasad Saini Environment Safeguard professional CMSC-II, Jodhpur	PIU: - Mr. Ashok Jangid, (AEn, PIU RUIDP Banswara), Consultant (CMSC-II): - Mr. Mahavir Prasad Saini, Environmental Safeguard Professional, CMSC-II Jodhpur. - Mr. Ankur Saini, (Support Engineer, CMSC-2, Banswara) - Pushpendra Singh (Support Engineer, CMSC-2, Banswara), Contractor: - Mr. Murgendra Trivedi, (Project Manager -BIPLSCHP JV) Total Participants- 27 Male-04 Female-00

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

11. PUBLIC CONSULTATION & GRIEVANCE REDRESS MECHANISM

A. Public Consultation

34. 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 APRIL 2023 TO SEPTEMBER 2023

S. No.	Date and place of consultation	Works being executed at/near site	Persons consulted	Topics discussed during consultation	Outcome of consultation
1.	On 11.05.2023 at SE, PIU, RUIDP office Kuchaman & On 12.05.2023 at Municipal Office, Kuchaman, Didwana, Ladnu & Makrana	PCC work went on	- Total person Consulted: 04 (PIU Staff) - Total Person Consulted: 05 (Municipal Staff)	- Draft proposal for reuse of treated water of STP was discussed to obtain agreements for reuse of treated water between ULBs and private entities. - Following points of draft proposal for uses of treated water of STP were discussed - ❖Details of concern town and STP ❖Schedule of generation of treated water from STP ❖Details of treated water generation at the time of start of STP operation ❖Details of reuse proposal points of treated water of STP with concern Chairman & Executive Officer of Nagar Parshad ❖Identification of suitable industries those can use the balance quantity of treated water after local municipal and agriculture uses ❖Inventory of nearby Agriculture fields in 1Km to 5 Km radius under the range or under covered head of Treated Effluent Elevated Reservoir (TEER) ❖Public Consultation in nearby village/Dhani/Ward by PIU, SOT and CMSC staff	- Reuse proposal plans of treated water of STPs is prepared and Signed by different PIUs for their beneficial use in different areas. - Compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines

S. No.	Date and place of consultation	Works being executed at/near site	Persons consulted	Topics discussed during consultation	Outcome of consultation
				Reuse of treated water from STP: ❖ Irrigation of agricultural lands ❖ Watering in Public Parks and Civil Nursery under municipal authority (Calculated area required for watering and volume required) ❖ Road side plant watering ❖ Landscape and recreational area irrigation ❖ Underground aquifer recharge ❖ Industrial Process (i.e., Marble Industrial use) ❖ Protection and restoration of marginal areas ❖ Firefighting in urban centers ❖ Various indoor applications within urban complexes ❖ Toilet Flushing in real estate building or Public toilet areas.	
2	On 10.05.2023 At PIU, RUIDP Office, Sirohi, On 11.05.2023 At PIU, RUIDP Office, Abu Road & Municipal Office, Sirohi & Abu road	Consultation for Reuse of treated waste water	• Local Farmers residing nearby STPs area of Sirohi (39 Farmers) • Local Farmers residing nearby STPs area of Abu Road (31 farmers) • Officials of PIU Sirohi & Abu Road • Officials of Municipal office.	• Draft proposal for reuse of treated water of STP was discussed to obtain agreements for reuse of treated water between ULBs and private entities. • Following points of draft proposal for uses of treated water of STP were discussed - ❖ Details of concern town and STP ❖ Schedule of generation of treated water from STP ❖ Details of treated water generation at the time of start of STP operation ❖ Details of reuse proposal points of treated water of STP with concern Chairman & Executive Officer of Nagar Parshad ❖ Identification of suitable industries those can use the balance quantity of treated water after local municipal and agriculture uses	• Reuse proposal plans of treated water of STPs is prepared by different PIUs for their beneficial use in different areas. • Compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines

S. No.	Date and place of consultation	Works being executed at/near site	Persons consulted	Topics discussed during consultation	Outcome of consultation
				❖ Inventory of nearby Agriculture fields in 1Km to 5 Km radius under the range or under covered head of Treated Effluent Elevated Reservoir (TEER) ❖ Public Consultation in nearby village/Dhani/Ward by PIU, SOT and CMSC staff ✚ Reuse of treated water from STP: ❖ Irrigation of agricultural lands ❖ Watering in Public Parks and Civil Nursery under municipal authority (Calculated area required for watering and volume required) ❖ Road side plant watering ❖ Landscape and recreational area irrigation ❖ Underground aquifer recharge ❖ Industrial Process (i.e., Marble Industrial use) ❖ Protection and restoration of marginal areas ❖ Firefighting in urban centers ❖ Various indoor applications within urban complexes ❖ Toilet Flushing in real estate building or Public toilet areas.	
3.	On 17.05.2023 at STPs of 9.6 MLD & 6.34 MLD at Banswara	CRMC building work	• Local Farmers residing nearby STPs area. (14 farmers)	• Draft proposal for reuse of treated water of STP was discussed to obtain agreements for reuse of treated water between ULBs and private entities. • Following points of draft proposal for uses of treated water of STP were discussed - ❖ Details of concern town and STP ❖ Schedule of generation of treated water from STP ❖ Details of treated water generation at the time of start of STP operation	• Reuse proposal plans of treated water of STPs is prepared by different PIUs for their beneficial use in different areas. • Compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines

S. No.	Date and place of consultation	Works being executed at/near site	Persons consulted	Topics discussed during consultation	Outcome of consultation
				❖ Details of reuse proposal points of treated water of STP with concern Chairman & Executive Officer of Nagar Parshad ❖ Identification of suitable industries those can use the balance quantity of treated water after local municipal and agriculture uses ❖ Inventory of nearby Agriculture fields in 1Km to 5 Km radius under the range or under covered head of Treated Effluent Elevated Reservoir (TEER) ❖ Public Consultation in nearby village/Dhani/Ward by PIU, SOT and CMSC staff ✚ Reuse of treated water from STP: ❖ Irrigation of agricultural lands ❖ Watering in Public Parks and Civil Nursery under municipal authority (Calculated area required for watering and volume required) ❖ Road side plant watering ❖ Landscape and recreational area irrigation ❖ Underground aquifer recharge ❖ Industrial Process (i.e., Marble Industrial use) ❖ Protection and restoration of marginal areas ❖ Firefighting in urban centers ❖ Various indoor applications within urban complexes ❖ Toilet Flushing in real estate building or Public toilet areas.	

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

B. PROJECT-SPECIFIC GRIEVANCE REDRESS MECHANISM

36. 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 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

37. **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.

38. 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

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, 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.

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.

39. 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 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.

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.

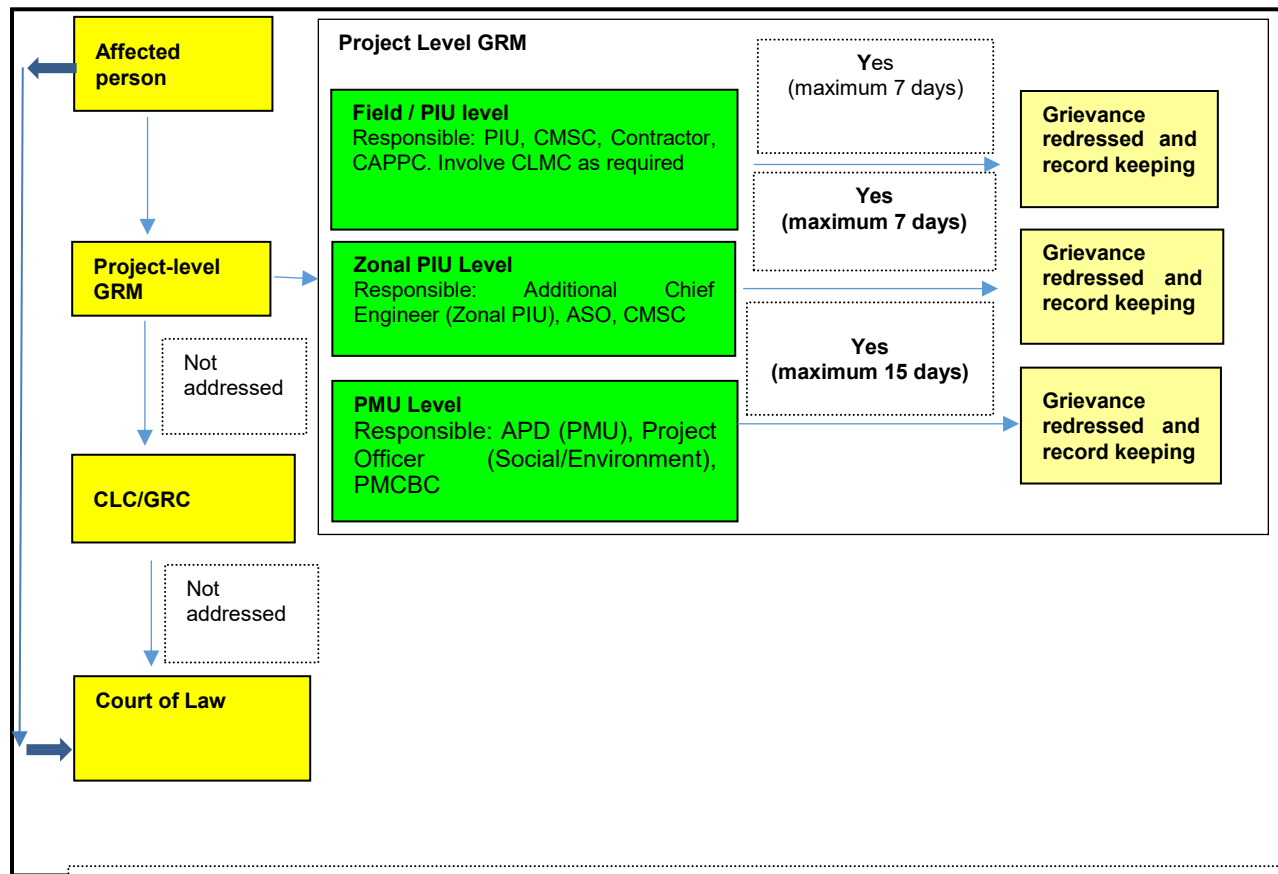
¹¹ <http://www.sampark.rajasthan.gov.in/RajSamWelcome.aspx>

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

- (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.
- (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.

public health engineering department (PHED), public works department (PWD) and head of PIU acting as Member Secretary.

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.

40. 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

41. 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.

42. 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**.

43. 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	1 st Level GRC Members					2 nd Level GRC Members	3 rd 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	Mr. Vijay Choudhary Retired on 31.10.2022	Mr. K M Mandawariya Retired on 30.06.2022
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	Ms. Poornima Mahlawat Joined as Project Officer on dated 10.07.2023	Mr. Anil Vijaywargiya Left the project (Retired on 30.09.2023)
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					

44. During April 2023 to September 2023, no grievances related to environment was received Status of grievances during reporting period.

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

45. 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.

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

47. 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.

48. **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.

49. 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**.

50. **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

51. Up to September 2023, 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.

52. 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.

53. 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.

54. 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 towns are obtained and for Sirohi & Pratapgarh are applied to RSPCB. Up to September 2023, total 22 applications for CTEs for STPs and WTPs were submitted out of which 22 CTEs have been issued by RSPCB and 4 application for CTO for STPs were submitted out of which 2 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 (Trrenche-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 FSTP is obtained and for Neem ka Thana is applied to RSPCB during this reporting period.

55. 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.

56. 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

57. 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. During this reporting period, in-principle permission (Stage-1 clearance) is obtained and final permission (Stage-II) is to be obtained after completing the due procedure.	PIU/CMSC-2	30.09.2023

APPENDIX 1: SELECTED PHOTOS OF SITE VISITS AND CONSTRUCTION WORKS

Mandawa Town (Site Visited on dated 12.07.2023)

STP (3.9 MLD) at Bisau Road



No proper hard barricades, access, staircase and signage was provided at site



Provided proper barricades all around the excavation area, proper access and staircase to enter in to the depth and Provided safety signage & emergency measures as per requirement.



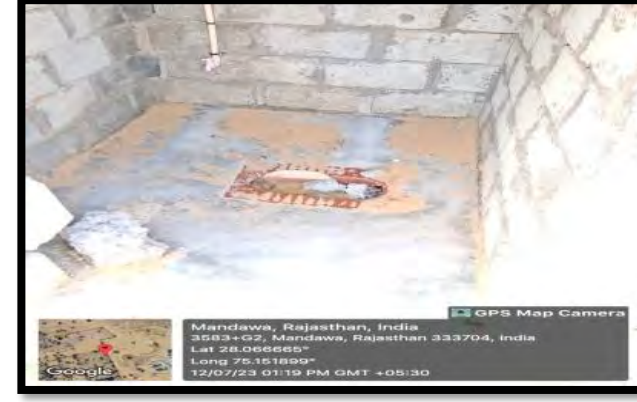
Good practice : Project information board was noticed at site with emergency contact details and toll free number



Poor housekeeping was found at site, Rebar's and Shuttering material was placed on the randomly area. There was no safe access to move at site.



Proper housekeeping done all shuttering material and rebar lots placed at safe storage area. Safe access provided for workers.

	
Sand & aggregate material heap was found at site without green net or tarpaulin coverage with open dumping of rebar material.	All sand and aggregate material covered with proper tarpaulin and green net to prevent air pollution and suspended material dust in surrounding environment.
	
Un-hygienic labour washroom was found at site	EHS officer ensured that all workers provided welfare facilities at site with neat and clean facilitated area.
	
Poor housekeeping was found at SBR basin and non-standard scaffold erection was found at site	Authorized competent scaffolder erected at site to prevent any kind of injury.



Water tank was found in damage condition



EHS Officer replaced damaged water tank with new one



Uneven working area/platform was found in front of SBR area there may be chances that leads to slip/trip & fall injury



Low laying structural area filled up with excavated earthwork to prevent uneven surface area.



Loose sharp edges tin shed material was dumped without putting weight on it and unwanted debris material was dumped



All sharp edges loose tin material covered and placed with proper weight load to prevent injury. Unwanted debris removed from work site.



No edge protection was found at processing building roof area



EHS Officer assured all roof top area edge protected with life line at structural peripheral areas.

JEn Campus (Mandawa)



Poor housekeeping was found at site, bricks and aggregate material was dumped in front of structural working area. There was no safe access to move at site.



Proper housekeeping done before to start the work and after completion of work at site

APPENDIX 2: SAMPLE PHOTOGRAPHS OF CONSULTATIONS**Photos of Consultations with PIU, Municipal Officials & Local farmers for Reuse Plan at Abu Road & Sirohi towns on dated 10.05.2023 & 11.05.2023**

Consultation regarding Reuse Plan with Mahendra Mevara (Executive Officer, Municipal Office), Sushil Rajpurohit (Commissioner Municipal Office), Ashok Kumar Karwasra Ex. Engineer(RUIDP); Site Staff of CMSC-02 and CAPP Staff



Meeting with farmers on their agricultural field at nearby area of STP 5.0 MLD, Sirohi



Meeting with farmers on their agricultural field at nearby area of STP 5.0 MLD, Sirohi



Meeting with farmers on their agricultural field at nearby area of STP 5.0 MLD, Sirohi



Meeting with farmers on their agricultural field at nearby area of STP 1.7 MLD, Sirohi



Meeting with farmers on their agricultural field at nearby area of STP 1.7 MLD, Sirohi



Meeting with farmers on their agricultural field at nearby area of STP 1.7 MLD, Sirohi



Meeting with farmers on their agricultural field at nearby area of STP, Abu Road



Meeting with farmers on their agricultural field at nearby area of STP, Abu Road



Meeting with farmers on their agricultural field at nearby area of STP, Abu Road

Consultation Sheet Sirohi

Community Awareness and Public Participation-CAPP, RUIDP-Phase-IV
Consultation Sheet

Name of Project town: Sirohi Date: 10/05/2023 Ward No:
Name of Colony /Landmark: Regarding STP Scheme Plan Name of Activity:

Issues covered: -

1. Consultation before start of work & Temporary inconvenience
2. Project details and benefits
3. Labour Safety, Health & Hygiene
4. Grievance Redressal
5. New water connection
6. Benefit of water metering
7. Pamphlets Distribution
8. Sewer connection
9. BPL connection verification
10. Operation & Maintenance/ CRMC/Toll Free
11. Any other issue (specify)*

S.No	Name	Address/Designation	Sex		Mobile No.	BPL Family	Issues Discussed	Signature	Remarks
			M	F					
1	अरुण सिंह जी	5 बीघा	✓			गैर BPL family	गैर BPL family		
2	राजू सिंह	70 बीघा	✓		978283	"	"		
3	इल्लामा सिंह	7 बीघा	✓		7274	"	"		
4	अनुराज सिंह	3 बीघा	✓		987258	"	"		
5	रविचंद्र सिंह	7 बीघा	✓		778304	"	"		
6	मनाराम जी	21 बीघा	✓		946153	"	"		
7	मन्मथ जी	11 बीघा	✓		9828755	"	"		
8	रविशंकर जी	5 बीघा	✓		635002180	"	"		
9	वसन्तशशी	2 बीघा	✓		9450432	"	"		
10	मीना जी	2 बीघा	✓		8225162	"	"		

Community Awareness and Public Participation-CAPP, RUIDP-Phase-IV
Consultation Sheet

Name of Project town: Sirohi Date: 11/05/2023 Ward No:
Name of Colony /Landmark: Regarding STP Scheme Plan Name of Activity:

Issues covered: -

1. Consultation before start of work & Temporary inconvenience
2. Project details and benefits
3. Labour Safety, Health & Hygiene
4. Grievance Redressal
5. New water connection
6. Benefit of water metering
7. Pamphlets Distribution
8. Sewer connection
9. BPL connection verification
10. Operation & Maintenance/ CRMC/Toll Free
11. Any other issue (specify)*

S.No	Name	Address/Designation	Sex		Mobile No.	BPL Family	Issues Discussed	Signature	Remarks
			M	F					
1	अमना जी	5 बीघा	✓		982751	गैर BPL family	गैर BPL family		
2	सुरेन्द्र जी	70 बीघा	✓		6253	"	"		
3	सुपेन्द्र जी	3 बीघा	✓		89501	"	"		
4	कालुराम	5 बीघा	✓		73201	"	"		
5	संजय	115 बीघा	✓		63921	"	"		
6	मुन्नाच चंद्र जी	2.5 बीघा	✓		51028	"	"		
7	अनीलाब जी	3 बीघा	✓			"	"		
8	नाथिनंद जी	3.5 बीघा	✓			"	"		
9	नरेश जी	4 बीघा	✓			"	"		
10	अमना जी	5 बीघा	✓			"	"		



Community Awareness and Public Participation-CAPP, RUIDP-Phase-IV

Consultation Sheet

Name of Project town: Sirohi Date: 10/5/2023 Ward No: 1
 Name of Colony /Landmark: Devaraj Name of Activity: Reuse Plan

Issues covered: -

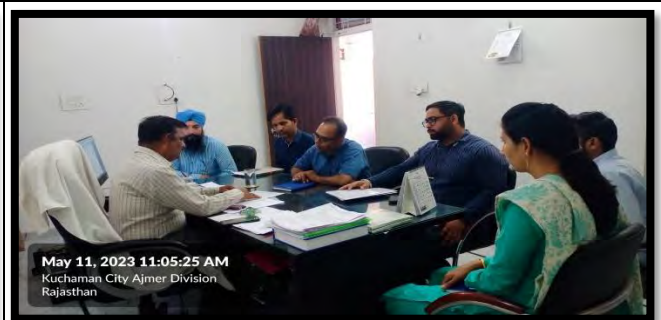
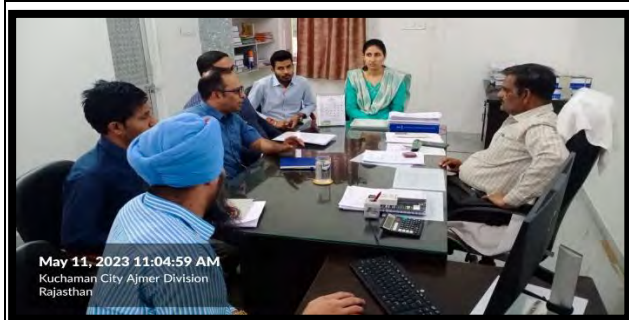
1. Consultation before start of work & Temporary inconvenience
2. Project details and benefits
3. Labour Safety, Health & Hygiene
4. Grievance Redressal
5. New water connection
6. Benefit of water metering
7. Pamphlets Distribution
8. Sewer connection
9. BPL connection verification
10. Operation & Maintenance/ CRMC/Toll Free
11. Any other issue (Specify) -

S.No.	Name	Address/Designation	Sex	Mobile No.	Issues of crop	Issue discussed	Signature	Remarks
			M F					
11	गुणेश जी	20 बी.डी.	✓	87693144	गो. अंज	कुडा		
12	चुन्नी लाल	5 बी.डी.	✓	89695321	1	"		
13	मानवी लाल जी	3.5 बी.डी.	✓	9781521	"	"		
14	बोनु जी	15 बी.डी.	✓	372	"	"		
15	साकेला जी	3 बी.डी.	✓	99825116	"	"		
				16				

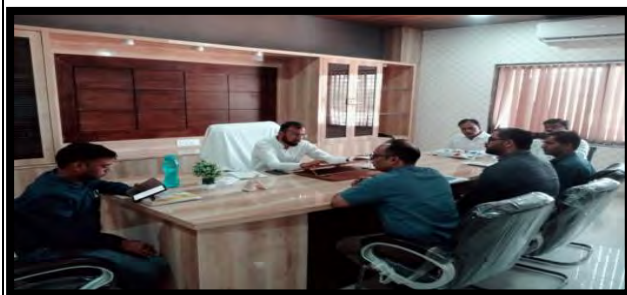
Signature sheet of farmers on the Reuse Plan (Sirohi)

क्र.सं.	नाम	पिता का नाम	खसरा नं.	गांव	हस्ताक्षर
1	कन्हैयालाल	अमरधारी	3685	↑	कन्हैयालाल 95492270
2	छोगवल्लभ	अमरधारी	3687	↑	छोगवल्लभ 8094710
3	मुपाराम	हकमाजी	3686		मुपाराम 9414842858
4	देवाराय	हकमाजी	3695		देवाराय 9414842858
5	वृंदाधाराय	भगवाजी	3696		वृंदाधाराय 993667601
6	वैजाराय	भगवाजी	3697		वैजाराय 6326821428
7	वदाराय	भगवाजी	83,85	↓	वदाराय 6350466973
8	अर्जुन माली	भगवाजी	86	↓	अर्जुन 9070106670
9	नरसाराय	चमनाराय	3659	↓	नरसाराय 8233641283
10	जैशाराय	चमनाराय		↓	जैशाराय 78774105
11	अवध माली	वैजाराय		↓	अवध 9694311986
12	प्रविण	वैजाराय		↓	प्रविण 800301903
13	रमेश	मुराजी माली	534	रामपुरा	रमेश 9541374
14	बालुलाल माली	मुराजी माली	534	रामपुरा	बालुलाल 9541374

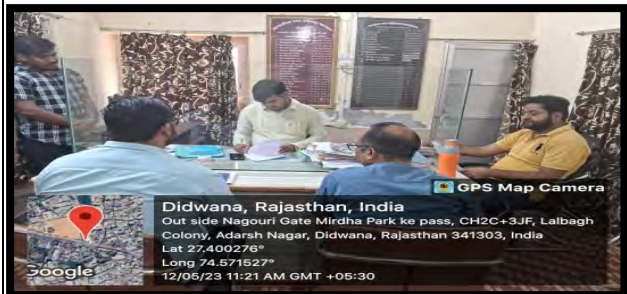
**Photos of Consultations with PIU & Municipal Officials for Reuse Plan
at Kuchaman, Didwana Makrana & Ladnu town on dated 11.05.2023 to 12.05.2023**



Meeting with Ashok Kumar Jain, Superintending Engineer (SE) & Mrs. Pratibha, Executive Engineer, PIU-Kuchaman and CMSC-01 Site Staff



Meeting with Mr. Asif Khan Chairman & Mr. Lalit Gupta, AEn Nagar Parishad, Kuchaman



Meeting with Mr. Rohit Kumar Meel, Executive Officer (EO), Nagar Palika, Didwana & Meeting with Mr. Deepak Mandan, Ex. Engineer, PIU-Makrana/Ladnu/Didwana and ACM and CMSC-01 Site Staff Ladnu



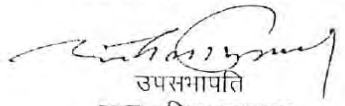
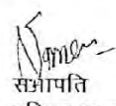
Meeting with Sunil Choudhary, Executive Officer (EO) & Mr. Anil Saini, AEn, Nagar Parishad, Makrana & Meeting with Mr. Deepak Mandan, Executive Engineer, PIU-Makrana/Ladnu/Didwana and ACM and CMSC-01 Site Staff, Makrana

Attendance Sheet of Consultations with PIU & Municipal Officials for Reuse Plan at Kuchaman, Didwana Makrana & Ladnu town on dated 11.05.2023 to 12.05.2023

Attendance Sheet						
S.No.	Date/Time	Location	Name	Occupation	Signature	Remarks
1.	11/5/2023	Kuchaman	Sh. Ashok Kumar Jain	S.E. Sr		
2.	-/-	Kuchaman	Smt. Parvati Bhai	Exn man		
3.	11/5/2023	Kuchaman	Sh. Sakandh Mishra	Support engineer		
4.	11/5/2023	Kuchaman	Vardan Shrivastava	Environment & Safety Officer		
5.	11/05/2023	Kuchaman	Mani Kumar	Environment & Safety Support		
6.	11/5/2023	Kuchaman	Bhajan Lal Meena	Social Safeguards & Support Staff		

Attendance Sheet						
S.No.	Date/Time	Location	Name	Occupation	Signature	Remarks
①	11/5/2023	मिडन	श्री १० मिडन	जोड़ियाई साफ़िंग मिडन		
②	11/5/2023	मिडन	अरुण/मिडन	पुलितो मिडन		
③	11/5/2023	मिडन	रमेश कुमार मिडन	Acme Kushinaka		
④	11/5/2023	मिडन	श्री १० मिडन	Support Engineer		
⑤	11/5/2023	Ladnu Mam. Kuma	Mani Kumar	Environment & Safety Support		
⑥	11/5/2023	Ladnu	Ravi Verma	Environment & Safety Support Staff		

Signed Reuse Proposals of treated water of STPs

 कार्यालय नगर परिषद, मकराना नागौर (राज0) Email-npmakrana@gmail.com फोन:- 01588-240107, फैक्स 241380	
क्रमांक:-नपम / 2023-24 / 614	दिनांक:- 10/05/2023
अधीक्षण अभियंता, आरयूआईडीपी, कुचामन	
विषय:-सीवरेज ट्रीटमेन्ट प्लांट से शोधित जल के पुनः उपयोग की कार्ययोजना बाबत।	
महोदय, उपरोक्त विषयान्तर्गत लेख है कि आरयूआईडीपी के चतुर्थ वरण के अन्तर्गत निर्मित सीवरेज ट्रीटमेन्ट प्लांट से प्रतिदिन 7700000 लीटर शोधित होने वाले पानी का निस्तारण निम्नानुसार किया जावेगा :- 1.सड़क के मध्य भाग व साईड में स्थित पौधों की सिंचाई के उपयोग हेतु :- सीवरेज परियोजना अन्तर्गत आप द्वारा उच्च जलाशय का निर्माण किया जाना प्रस्तावित है। इस कार्य में टैंकर भरने का प्रावधान होकर, टैंकर भरे जा सकते हैं, जिससे शहर में सड़क के मध्य भाग व साईड में स्थित पौधों की सिंचाई के उपयोग में शोधित जल का उपयोग किया जा सकेगा। 2.कृषि उपयोग :- मकराना शहर एवं आस-पास के क्षेत्र में प्रस्तावित STP के पास में कृषि भूमि उपलब्ध है। उचाई में निर्मित उच्च जलाशय से पाइप लाईन द्वारा जहाँ तक खेतों में पानी जा सकता है, वहाँ तक पानी को खेती के लिये उपलब्ध करवाया जा सकेगा। इस क्रम खेतीकर किसानों से शोधित जल के उपयोग हेतु सहमति ली जा रही है। सहमति के उपरान्त इस कार्यालय द्वारा आपको चिन्हित स्थान पर शोधित जल के उपयोग हेतु अवगत करा दिया जावेगा। इन्फ्रास्ट्रक्चर की आवश्यकता - इस हेतु किसानों के साथ बैठक कर उनसे MOU की कार्यवाही की जा रही है। STP से खेतों तक पाइप लाईन बिछाने व एक टांका का निर्माण की आवश्यकता रहेगी, जिससे खेतों में किसान अपने स्तर पर शोधित पानी उपयोग में ले सकेंगे। 3.मार्बल उद्योग :- मकराना शहर में अधिक संख्या में मार्बल कटिंग उद्योग है। अतः मार्बल उद्योग में शोधित जल का उपयोग किया जा सकता है। ताकि शुद्ध जल की बचत हो सके। इन्फ्रास्ट्रक्चर की आवश्यकता - उच्च जलाशय का निर्माण योजनान्तर्गत प्रस्तावित होकर कार्य प्रगति पर है उच्च जलाशय से टैंकर में पानी भर कर मार्बल कटिंग में किया जा सकेगा। अतः अतिरिक्त इन्फ्रास्ट्रक्चर की आवश्यकता नहीं है। उक्त कार्य योजना की डिजाइन ड्राइंग व कार्य योजना में होने वाला व्यय आरयूआईडीपी विभाग द्वारा वहन किया जावेगा।	
 उपसभापति नगर परिषद, मकराना E:\am\Notice & Letter 2023.doc	 सभापति नगर परिषद, मकराना 2487
 आयुक्त नगर परिषद, मकराना	

Scanned with CamScanner

Fig 1: Signed Reuse Proposal of treated water of STP – MakranaTown

कार्यालय नगरपालिका मण्डल, डीडवाना (नागौर)

E-mail ID: mpdidwana@gmail.com Phone No. 01580-220086

क्रमांक 521 दिनांक 12/05/2023

बैठक कार्यवाही विवरण

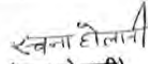
नगरपालिका डीडवाना में सीवरेज ट्रीटमेंट प्लांट से शोधित जल के पुनः उपयोग की कार्ययोजना हेतु बैठक दिनांक 08.05.20223 दिन सोमवार को आयोजित की गई। जिसमें निम्नलिखित सदस्य/अधिकारीगण उपस्थित हुये:-

1. श्रीमती रचना होलानी, अध्यक्ष नगरपालिका, डीडवाना।
2. श्री रोहित कुमार मील, अधिशासी अधिकारी, नगरपालिका डीडवाना।
3. श्री दीपक मान्डन, अधिशासी अभियंता, आरयूआईडीपी, डीडवाना।
4. श्री मनीष कुमार, सहायक अभियंता, नगरपालिका डीडवाना।
5. श्री जीतेन्द्र कुमार, सहायक अभियंता, आरयूआईडीपी, डीडवाना।

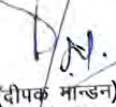
कार्यवाही विवरण

आरयूआईडीपी के चतुर्थ चरण के अन्तर्गत निर्मित सीवरेज ट्रीटमेंट प्लांट से प्रतिदिन 3000000 लीटर शोधित होने वाले पानी का निस्तारण किया जावेगा। नगरपालिका डीडवाना में सीवरेज ट्रीटमेंट प्लांट से शोधित जल के पुनः उपयोग की कार्ययोजना हेतु बैठक में उपरोक्त अधिकारीगणों द्वारा निम्न सुझावों पर सहमति प्रदान की जो निम्नानुसार है:-

1. सड़क के मध्य भाग व साईड में स्थित पौधों एवं पार्क स्टेडियम आदि में सिंचाई के उपयोग हेतु (100000 लीटर):-
सीवरेज परियोजना अन्तर्गत आप द्वारा उच्च जलाशय का निर्माण किया जाना प्रस्तावित है। इस कार्य में टैंकर भरने का प्रावधान होकर, टैंकर भरे जा सकते हैं। इस कार्य हेतु कम्प्लीट ड्राईंग एवं एस्टीमेट आरयूआईडीपी एवं L&T द्वारा तैयार की जावें। जिसमें सड़क किनारे स्थित पेड़-पौधों की सिंचाई एवं नगरपालिका स्थित पार्क एवं स्टेडियम आदि हेतु प्रस्ताव तैयार कर आगामी मीटिंग में रखा जावें।
2. कृषि उपयोग (200000 लीटर):-
डीडवाना शहर एवं आस-पास के क्षेत्र में प्रस्तावित STP के पास में कृषि भूमि उपलब्ध है। ऊर्चाई में निर्मित उच्च जलाशय से पाइपलाइन द्वारा जहाँ तक खेतों में पानी जा सकता है, वहाँ तक पानी को खेती के लिये उपलब्ध करवाया जा सकेगा। इस क्रम खेती हर किसानों से शोधित जल के उपयोग हेतु सहमति आरयूआईडीपी एवं L&T द्वारा ली जावे एवं प्रस्ताव तैयार किया जावें। किसानों एवं हितधारकों के साथ मीटिंग बुलाई जावें एवं MOU साईन की प्रक्रिया सम्पादित की जावें एवं तदनुसार कम्प्लीट एस्टीमेट एवं ड्राईंग सहित तैयार कर प्रस्ताव अनुमोदन हेतु पुनः मीटिंग में रखा जावें।
3. फायर गाडी एवं अन्य कार्य हेतु त्वरित जल की उपलब्धता हेतु शहर के मुख्य मार्ग पर पानी की आवक सुनिश्चित की जावें। इस हेतु चारों दिशाओं में वॉटर पॉइंट निर्धारण कर ड्राईंग एस्टीमेट प्रस्तुत करें।


 (रचना होलानी)
 अध्यक्ष,
 नगरपालिका, डीडवाना


 (रोहित कुमार मील)
 अधिशासी अधिकारी,
 नगरपालिका, डीडवाना


 (दीपक मान्डन)
 अधिशासी अभियंता,
 आरयूआईडीपी, डीडवाना

12.5.2023

MUNICIPAL BOARD DIDWANA, NEAR BUS STAND DIDWANA

Fig 2: Signed Reuse Proposal of treated water of STP – Didwana Town




कार्यालय नगरपालिका मण्डल, लाडनू (नागौर)
nagarpalika_ladnun@yahoo.com Phone no. 01581-226050

क्रमांक : न.पा.ला./2023/407 दिनांक : 15/05/2023

अधीक्षक अभियंता,
आरयूआईडीपी, पीआईयू-कुचामन

महोदय,

विषय:- सीवरेज ट्रीटमेन्ट प्लान्ट से शोधित जल के पुनः उपयोग की कार्ययोजना बाबत।

उपरोक्त विषयान्तर्गत लेख है कि आरयूआईडीपी के चतुर्थ चरण के अन्तर्गत निर्मित सीवरेज ट्रीटमेन्ट प्लान्ट (5.5 एमएलडी व 2.4 एमएलडी) से प्रतिदिन कुल 7900000 लीटर शोधित होने वाले पानी का निस्तारण निम्नानुसार किया जावेगा :-

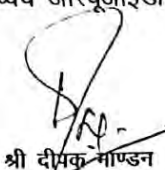
- सड़क के मध्य भाग व साईड में स्थित पौधों की सिंचाई के उपयोग हेतु :-**
सीवरेज परियोजना अन्तर्गत आप द्वारा उच्च जलाशय का निर्माण किया जाना प्रस्तावित है। इस कार्य में टैंकर भरने का प्रावधान होकर, टैंकर भरे जा सकते हैं, जिससे शहर में सड़क के मध्य भाग व साईड में स्थित पौधों की सिंचाई के उपयोग में शोधित जल का उपयोग किया जा सकेगा।
- कृषि उपयोग :-**
लाडनू शहर एवं आस-पास के क्षेत्र में प्रस्तावित STP के पास में कृषि भूमि उपलब्ध है। ऊर्चाई में निर्मित उच्च जलाशय से पाइप लाईन द्वारा जहाँ तक खेतों में पानी जा सकता है, वहाँ तक पानी को खेती के लिये उपलब्ध करवाया जा सकेगा। इस क्रम खेतीहर किसानों से शोधित जल के उपयोग हेतु सहमति ली जा रही है। सहमति के उपरान्त इस कार्यालय द्वारा आपको चिन्हित स्थान पर शोधित जल के उपयोग हेतु अवगत करा दिया जावेगा।

इन्फ्रास्ट्रक्चर की आवश्यकता
इस हेतु किसानों के साथ बैठक कर उनसे MOU की कार्यवाही की जा रही है। STPs से खेतों तक पाइप लाईन बिछाने व एक टांका का निर्माण की आवश्यकता रहेगी, जिससे खेतों में किसान अपने स्तर पर शोधित पानी उपयोग में ले सकेंगे।

उक्त कार्य योजना की डिजाइन ड्राइंग व कार्य योजना में होने वाला व्यय आरयूआईडीपी विभाग द्वारा वहन किया जावेगा।


श्री रावत खां
अध्यक्ष
नगर पालिका, लाडनू


श्री पुरुषोत्तम पंवार
अधिसाक्षी अधिकारी
नगर पालिका, लाडनू


श्री दीपक माण्डन
अधिसाक्षी अभियंता
आरयूआईडीपी, लाडनू

Scanned with CamScanner

Fig 3: Signed Reuse Proposal of treated water of STP – Ladnu Town



Environmental Monitoring Report

PUBLIC

Semestral Report: April 2023 – September 2023
March 2024

India: Rajasthan Secondary Towns Development Sector Project

Part 2 of 5: Appendix 2 (continued) and Appendices 3-8

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

कार्यालय नगरपरिषद् कुचामन सिटी (नागौर)

Email : eo.mcorp.kuchaman@rajasthan.gov.in
munibkcity@gmail.com

फोन नं. 01586-220022
01586-221526

क्रमांक :- न.प.कु./2023-24/1117

दिनांक :- 18/5/23

अधीक्षण अभियन्ता,
आरयूआईडीपी,
पीआईयू, कुचामन।

विषय:-सीवरेज ट्रीटमेंट प्लान्ट से शोधित जल के पुनः उपयोग की कार्य योजना बाबत।

महोदय,

उपरोक्त विषयान्तर्गत लेख है कि आरयूआईडीपी के चतुर्थ चरण के अन्तर्गत निर्मित सीवरेज ट्रीटमेंट प्लान्ट से प्रतिदिन 7600000 लीटर शोधित होने वाले पानी का पुनर्उपयोग निम्नानुसार किया जावेगा :-

1. रोड साईड पौधों में सिंचाई का कार्य :-

सीवरेज परियोजना अन्तर्गत उच्च जलाशय का निर्माण किया जाना प्रस्तावित होकर कार्य प्रगति पर है। कार्य में टैंकर भरने का प्रावधान होकर टैंकर भरे जा सकते हैं, जिससे शहर में रोड साईड में किये गये वृक्षारोपण में सिंचाई में शोधित जल का उपयोग किया जा सकेगा।

इन्फ्रास्ट्रक्चर की आवश्यकता - उच्च जलाशय का निर्माण योजनान्तर्गत प्रस्तावित होकर कार्य प्रगति पर है उच्च जलाशय से टैंकर में पानी भर कर सिंचाई का कार्य हो सकेगा। अतः अतिरिक्त इन्फ्रास्ट्रक्चर की आवश्यकता नहीं है।

2. रोड मध्य में बने डिवाइडर में पौधों में सिंचाई का कार्य :-

सीवरेज परियोजना अन्तर्गत उच्च जलाशय का निर्माण किया जाना प्रस्तावित होकर कार्य प्रगति पर है, कार्य में टैंकर भरने का प्रावधान होकर टैंकर भरे जा सकते हैं। जिससे रोड मध्य में डिवाइडरों में लगे पौधों में सिंचाई में शोधित जल का उपयोग किया जा सकेगा।

इन्फ्रास्ट्रक्चर की आवश्यकता - उच्च जलाशय का निर्माण योजनान्तर्गत प्रस्तावित होकर कार्य प्रगति पर है उच्च जलाशय से टैंकर में पानी भर कर सिंचाई का कार्य हो सकेगा। अतः अतिरिक्त इन्फ्रास्ट्रक्चर की आवश्यकता नहीं है।

3. कृत्रिम निर्मित कुचामन वैली में झील :- कुचामन वैली में एक कृत्रिम झील का निर्माण किया गया है, जिसे शोधित जल पाईप लाईन द्वारा झील तक ले जाया जाकर स्टोरेज कर उक्त जल का वहां के उद्यान, पौधों, डिवाइडर के पौधों में उपयोग में लिया जा सकेगा।

इन्फ्रास्ट्रक्चर की आवश्यकता - सम्बन्धित के साथ MOU की आवश्यकता है। साथ ही कुचामन वैली तक पाईप लाईन बिछाने का कार्य अपेक्षित है।

4. उद्यानों में सिंचाई हेतु :- कुचामन शहर में लगभग छोटे-बड़े कुल 7 उद्यान हैं, उक्त उद्यानों में सिंचाई का कार्य पानी के टैंकों से परिवहन कर किया जाता है। शुद्ध जल की बजाय शोधित जल से उक्त उद्यानों की सिंचाई की जा सकती है, जिससे शोधित जल का पुनर्उपयोग हो सकेगा।

इन्फ्रास्ट्रक्चर की आवश्यकता - उद्यानों में आवश्यकतानुसार क्षमता का टांका निर्माण कार्य किया जाना होगा। ताकि STP से शोधित जल का परिवहन कर उद्यान में स्टोरेज किया जा सके व सिंचाई हेतु काम में लिया जा सकेगा।

आयुक्त
नगर परिषद्, कुचामन सिटी

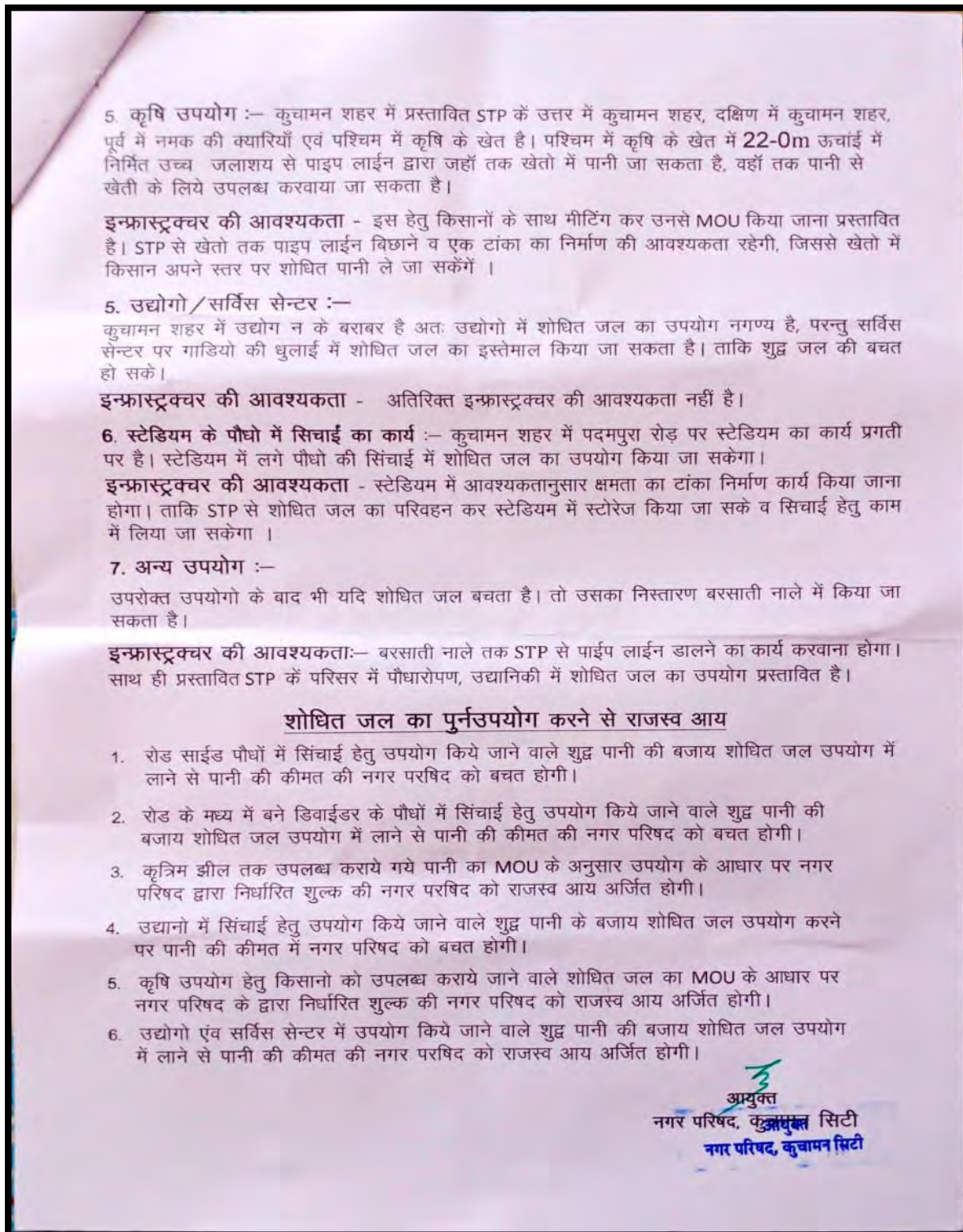
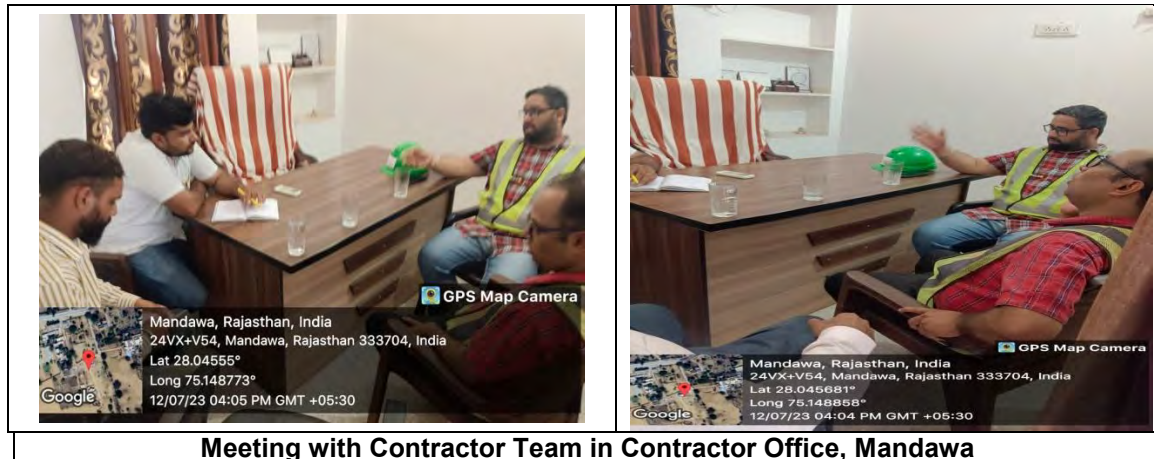


Fig 4: Signed Reuse Proposal of treated water of STP – Kuchaman Town

Photographs of Meeting and Discussion with PIU & Contractor Staffs at Mandawa town during site visit on dated 12.07.2023



Meeting with Contractor Team in Contractor Office, Mandawa

Attendance Sheet Meeting and Discussion with PIU & Contractor Staffs at Mandawa town during site visit on dated 12.07.2023

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

Project town: - Venue: PIU-Mandawa Date: 12.07.2023 Time: -

Issues: - 1. Work at Height Safety 2. Poor House Keeping
3. Improper Electrical Safety 4. Unhygienic/Improper Labour Camp
5. Excavation Safety 6. Untrained Heavy Vehicle Operator

S.N.	Name	Designation	Contact No.	Signature
1	Sanjiv Poonia	Secy, PIU	7726032018	[Signature]
2	Vandem Siras dare	Environmental Safeguard	9410085379	[Signature]
3	Mani Kumar	Safeguard Support (Env. Engg.)	83600-43214	[Signature]
4	Yogesh Kr. Arora	Safeguard Support (Env. Engg.)	9460126727	[Signature]
5	RISHABH KUMAR	SUPPORT ENGG.	9936673808	[Signature]
6	Prashant Kumar	SUPP. ENGG.	9694845867	[Signature]
7				
8				
9				
10				
11				
12				
13				
14				
15				

Photographs of Consultation with Local Farmers for Reuse Plan at Banswara town during site visit on dated 17.05.2023



Attendance Sheet of Consultation with farmers regarding Reuse Plan at Banswara town during site visit on dated 17.05.2023

Date: 17/05/23 Attendance Sheet of Consultation with Farmers of Dhamaniya Village Reg. Reuse of STP Treated effluent in Agri.

Place: Dhamaniya Panchayat - Senwa Tehsil - Talwara Dist.

1	मानसिंह	7023463241	- मानसिंह
2	मनोज	"	-
3	नारायण मंजी	9636054850	- 11/2/01
4	हरिवर		- हरिवर
5	मुकेश	6350350988	- मुकेश
6	मनिषा		-
7	विकास	6377574030	- विकास
8	शुक्रराम	9899229822	- शुक्रराम (Group leader)
9	उत्तमिल मेनन	उपस्थित	-
10	दिनेश मकवाना	- 8000679491	- दिनेश
11	हरिश नारायण	9351547361	- हरिश
12	कलश व मांगीलाल	= 8107723250	= कलश

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

S.No.	Component and Town Name	Validity	Reported in which SEMR
1.	3.8 MLD STP at Johad, Ratangarh	CTO Issued and valid up to 31.08.2028	Reporting in Current SEMR (April 2023 to September 2023)
2.	4.3 MLD STP at Naribari village road, Fatehpur	CTO Issued and valid up to 31.03.2028	Reporting in Current SEMR (April 2023 to September 2023)
3.	31 KLD FSTP at Dausa	CTE Issued and valid up to 31.08.2028	Reporting in Current SEMR (April 2023 to September 2023)
4.	5 MLD STP at Near Nehru Nagar, Sirohi	CTO Applied on dated 28.06.2023	Reporting in Current SEMR (April 2023 to September 2023)
5.	7 MLD STP at Jain Gosala, Kila Road, Pratapgarh	CTO Applied and status pending at RSPCB	Reporting in Current SEMR (April 2023 to September 2023)

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 Banswata 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 3.8 MLD STP, Ratangarh



Regional Office Nagour
Rajasthan State Pollution Control Board
First Floor, Cooperative Land Development Bank Ltd, Nagour
Phone: 01582-294353



Registered

File No : F(Tech)/Churu(Ratangarh)/1781(1)/2023-2024/484-485

Order No : 2023-2024/Nagour/13082

Date: Jun 26 2023 3:50PM

Unit Id : 126120

M/s STP 3.8 MLD

Nagar Palika, Ratangarh

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 20/04/2023 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 **3.8 MLD STP plant** situated at **38 MLD STP on NH-11, Derajsar, Ratangarh Ratangarh Tehsil:Ratangarh District:Churu**, Rajasthan, subject to the following conditions:-

- 1 That this Consent to Operate is valid for a period from **20/04/2023** to **31/03/2028**.
- 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:

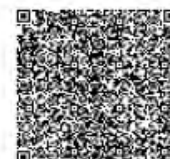
Particular	Type	Quantity with Unit
Treated Effluent	Operation	3.80 MILLION LITRES/ DAY

- 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:

Type of effluent	Max. effluent generation (KLD)	Recycled Qty of Effluent (KLD)	Disposed Qty of effluent (KLD) and mode of disposal
Domestic Sewage	3800.000	NIL	3,800.000 Sewage Treatment Plant

Page 1 of 5

Validity unknown
Digitally signed by Savita
Date: 2023.06.26 15:51:00 IST
Reason: Self Attested
Location:





Regional Office Nagour
Rajasthan State Pollution Control Board
 First Floor, Cooperative Land Development Bank Ltd, Nagour
 Phone: 01582-294353

Registered

File No : F(Tech)/Churu(Ratangarh)/1781(1)/2023-2024/484-485

Date: Jun 26 2023 3:50PM

Order No : 2023-2024/Nagour/13082

Unit Id : 126120

- 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
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

- 6 a. That the industry shall only be established within the converted land of Khasra no.- 04, 28, NH-11, Derajsar Ratangarh, District Churu.
 b. The total capital investment in the project without depreciation shall not exceed 1663 lacs which includes the cost of Land, Building, Misc. Fixed Assets Plant & Machinery.
- 7 a. In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.
 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 adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
 f. 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.

Page 2 of 5

Validity unknown

Digitally signed by Savita
 Date: 2023.06.26 15:51:00 IST
 Reason: Self Attested
 Location:





Regional Office Nagour
Rajasthan State Pollution Control Board
 First Floor, Cooperative Land Development Bank Ltd, Nagour
 Phone: 01582-294353

Registered

File No : F(Tech)/Churu(Ratangarh)/1781(1)/2023-2024/484-485

Date: Jun 26 2023 3:50PM

Order No : 2023-2024/Nagour/13082

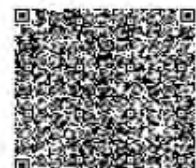
Unit Id : 126120

- 8
 - 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
 - b. 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 within 03 months without fail.
 - c. That regular maintenance and operation of the OCEMS with temper proof mechanism with facilities for calibration shall be ensured.
 - d. 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 & Multipoint calibration mechanism technology based OCEMS (Effluent) used in STPs shall be followed.
 - e. That the industry shall obtain Environmental Clearance from competent authority under EIA Notification dated 14.09.2006 for any such activity which attracts Environmental clearance under EIA Notification dated 14.09.2006.
- 9
 - a. That 33% area of the total area of industry's premises shall be covered by tree plantation. 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.
 - b. That industry shall achieve prescribed standards for air and water as per Environment Protection Act, 1986.
 - c. The unit shall comply with the provisions of Public Liability Insurance Act, 1991 and any further amendments, if applicable.
 - d. The unit shall comply with the provisions of Hazardous Waste (Management and Trans-boundary Movement) Rules 2016 and any further amendments, if applicable.
- 10
 - a. That the industry shall apply for Consent in prescribed application form with requisite fee before 120 days from expiry of this Consent or commissioning the plant whichever is earlier.
 - b. That this consent is subject to the permission /NOC / license from appropriate authorities for land use under the related laws/Acts and subject to submission of the same to this office. I
 - c. That the unit shall comply with NGT orders regarding Environmental Clearance. It shall be the responsibility of Project Proponent to follow and remain aware about each decision/ order/ judgments in this regard.
 - d. That the unit shall not increase the production beyond the consented production capacity.
 - e. That no Single use Plastic (SUP) item, which is banned vide MoEF&CC, Govt of India notification dated 12/08/2021 shall be used in the industry/unit premises.

Page 3 of 5

Validity unknown

Digitally signed by Savita
 Date: 2023.06.26 15:51:00 IST
 Reason: Self Attested
 Location:





Regional Office Nagour
Rajasthan State Pollution Control Board
 First Floor, Cooperative Land Development Bank Ltd, Nagour
 Phone: 01582-294353

Registered

File No : F(Tech)/Churu(Ratangarh)/1781(1)/2023-2024/484-485

Order No : 2023-2024/Nagour/13082

Date: Jun 26 2023 3:50PM

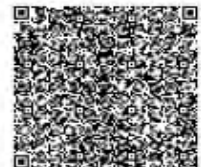
Unit Id : 126120

- 11 a. This consent is not evidence for ascertaining entitlement of land.
 b. That this consent is being issued on the basis of documents/ information uploaded by the applicant/industry/process/project. The liability of veracity and correctness of the uploaded document/information shall solely be of the applicant only.
 c. This consent shall be subjected to compliance of any direction or order passed by court of law in matter.
 d. That the grant of this consent 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.
- 12 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.
- 13 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.
- 14 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.
- 15 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.
- 16 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.
- 17 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.

Page 4 of 5

Validity unknown

Digitally signed by Savita
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 Reason: Self Attested
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Regional Office Nagour
Rajasthan State Pollution Control Board
 First Floor, Cooperative Land Development Bank Ltd, Nagour
 Phone: 01582-294353

Registered

File No : F(Tech)/Churu(Ratangarh)/1781(1)/2023-2024/484-485

Date: Jun 26 2023 3:50PM

Order No: 2023-2024/Nagour/13082

Unit Id : 126120

- 18 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.
- 19 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.
- 20 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[Nagour]

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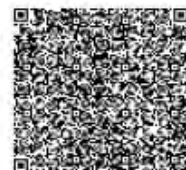
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Regional Officer[Nagour]

Page 5 of 5

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 Date: 2023.06.26 15:51:00 IST
 Reason: Self Attested
 Location:



Consent to Operate (CTO) for 4.3 MLD STP, Fatehpur

Regional Office Sikar
Rajasthan State Pollution Control Board
 Shiv-Singhpura Housing Board Colony, Nawalgarh Road, Sikar-33
 Phone: 015 72-248009

**Registered****File No :** F(Tech)/Sikar(Fatehpur)/18(1)/2020-2021/675-676**Order No :** 2023-2024/Sikar/13031**Date:** Oct 3 2023 5:11PM**Unit Id :** 106650**M/s E.O. Municipal Board Fatehpur - Shekhawati (4.3 MLD STP)****NEAR EXISTING STP, NARI-BARI ROAD , FATEHPUR****Tehsil:Fatehpur****District:Sikar**

Sub: **Consent to Operate** under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under Section 21(4) of Air (Prevention & Control of Pollution) Act, 1981.

Ref: Your application for Consent to Operate dated 27/04/2023 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) and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder **is hereby granted** for your **4.3 MLD STP on Nari-Bari Road plant** situated at **NEAR EXISTING STP, NARI-BARI ROAD SIKAR , FATEHPUR Tehsil:Fatehpur District:Sikar** , Rajasthan, subject to the following conditions:-

- 1 That this Consent to Operate is valid for a period from **27/04/2023 to 31/03/2028**,
- 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:

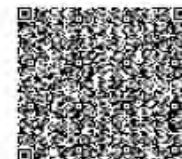
Particular	Type	Quantity with Unit
Sewerage Treatment Plant	Activity	4.30 MLD

- 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 5

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Digitally signed by **Abiraj Sharma**
 Date: 2023.10.03 17:11:27 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)/Sikar(Fatehpur)/18(1)/2020-2021/675-676**Order No :** 2023-2024/Sikar/13031**Date:** Oct 3 2023 5:11PM**Unit Id :** 106650

Type of effluent	Max. effluent generation (KLD)	Recycled Qty of Effluent (KLD)	Disposed Qty of effluent (KLD) and mode of disposal
Domestic Sewage	2.000	NIL	2.000 Sewage Treatment Plant

- 5 That the sources of air emissions along with pollution control measures and the emission standards for the prescribed parameters shall be as under:

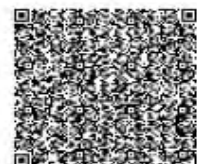
Sources of Air Emissions	Pollution Control Measures	Prescribed	
		Parameter	Standard
DG Set(225KVA)	Stack	—	—

- 6 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
Biochemical Oxygen Demand (3 days at 27C)	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

Validity unknown

Digitally signed by: Deepraj Sharma
 Date: 2023.10.03 17:11:27 IST
 Reason: Self Attested
 Location:





Regional Office Sikar
Rajasthan State Pollution Control Board
 Shiv-Singhpura Housing Board Colony, Nawalgarh Road, Sikar-332 001
 Phone: 015 72-248009

Registered

File No : F(Tech)/Sikar(Fatehpur)/18(1)/2020-2021/675-676

Order No : 2023-2024/Sikar/13031

Date: Oct 3 2023 5:11PM

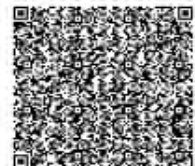
Unit Id : 106650

- 7 That fee for this consent has been deposited on the basis of estimated project cost of Rs. 2064.00 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.
- 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 under Section 27(2) of the Water Act and under Section 21(6) of the Air 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 Air Act & Water Act.
- 17 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.
- 18 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 and Air Act or the Rules made thereunder.

Page 3 of 5

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Digitally signed by: Vikaraj Sharma
 Date: 2023.10.03 17:11:27 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)/Sikar(Fatehpur)/18(1)/2020-2021/675-676

Date: Oct 3 2023 5:11PM

Order No : 2023-2024/Sikar/13031

Unit Id : 106650

- 19 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.
- 20 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.
- 21 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.
- 22 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.
- 23 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.
- 24 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 Air 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).

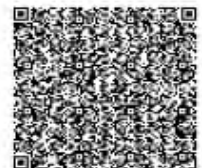
Yours sincerely,

Regional Officer[Sikar]

Page 4 of 5

Validity unknown

Digitally signed by Jitendra Sharma
 Date: 2023.10.03 17:11:27 IST
 Reason: Self Attested
 Location:





Regional Office Sikar
Rajasthan State Pollution Control Board
Shiv-Singhpura Housing Board Colony, Nawalgarh Road, Sikar-332 001
Phone: 015 72-248009

Registered**File No :** F(Tech)/Sikar(Fatehpur)/18(1)/2020-2021/675-676**Order No :** 2023-2024/Sikar/13031**Date:** Oct 3 2023 5:11PM**Unit Id :** 106650**(A): Copy to:-**

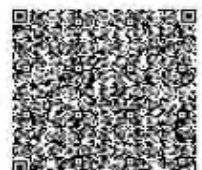
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Regional Officer[Sikar]

Page 5 of 5

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Digitally signed by Nitendra Sharma
Date: 2023.10.03 17:11:27 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 31 KLD FSTP, Dausa

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

**Registered****File No :** F(Tech)/Dausa(Dausa)/7250(1)/2023-2024/1851-1852**Order No :** 2023-2024/Jaipur (S)/12709**Dispatch Date:** Oct 30 2023 3:38PM**Unit Id :** 129608**M/s Nagar Parisad Dausa****Khasra No. 584/909, Village Rohda , Dausa****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 27/09/2023 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 **Nagar Parisad Dausa plant** situated / proposed at **Khasra No 584/909, Village Rohda Dausa 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 **27/09/2023** to **31/08/2028** 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:

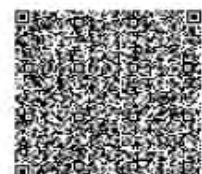
Particular	Type	Quantity / Capacity
FAECAL SLUDGE TREATMENT PLANT (FSTP)	Service	31.00 KLD

- 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

Validity unknown

Digitally signed by Arvind Kumar Agarwal
 Date: 2023.10.30 15:38:33 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)/7250(1)/2023-2024/1851-1852

Order No : 2023-2024/Jaipur (S)/12709

Dispatch Date: Oct 30 2023 3:38PM

Unit Id : 129608

- 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	31.500	NIL	28.000 Disposed in plantation/gardening or other gainful uses within the premises

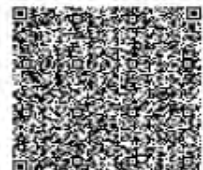
- 6 That the Domestic Sewage shall be treated before disposal so as to conform to the standards prescribed by the Board as notified under the Environment (Protection) Act-1986 for disposal **Into Inland Surface Water**. The main parameters for regular monitoring shall be as under:

Parameters	Standards
Phosphate as P	Not to exceed 1.0 mg/l
pH Value	Between 6.5 to 9.0
Biochemical Oxygen Demand (3 days at 27C)	Not to exceed 10 mg/l
Chemical Oxygen Demand	Not to exceed 50 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

Page 2 of 5

Validity unknown

Digitally signed by Arvind Kumar Agarwal
 Date: 2023.10.30 15:38:33 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)/7250(1)/2023-2024/1851-1852

Order No: 2023-2024/Jaipur (S)/12709

Dispatch Date: Oct 30 2023 3:38PM

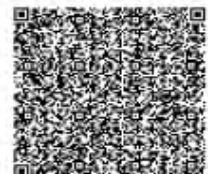
Unit Id : 129608

- 7 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. 439 lacs the unit shall take/obtain modification in consent to establish/operate after paying fee as applicable.
- xiv. That this consent to establishment shall be subject to compliance of any direction or order passed by court of law in the matter.
- xv. That unit shall carryout plantation within the premises in at least 33% of the total plot area.
- xvi. That unit shall install a D.G. set for the regular operation of FSTP even during the power cuts and shall obtain separate CTE & CTO from the State Board.
- xvii. That no treated/untreated effluent shall be discharged into any water body

Page 3 of 5

Validity unknown

Digitally signed by Anand Kumar
 Agarwal
 Date: 2023.10.30 15:38:33 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)/7250(1)/2023-2024/1851-1852

Order No: 2023-2024/Jaipur (S)/12709

Dispatch Date: Oct 30 2023 3:38PM

Unit Id : 129608

and entire treated sewage shall be utilized in plantation/horticulture/ other gainful purposes.

- 8 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**.
- 9 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.
- 10 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 (S)]

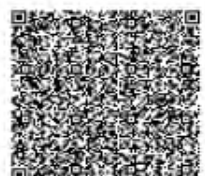
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Regional Office Jaipur (S)
Rajasthan State Pollution Control Board
8/263, Malviya Nagar, Behind Renault Showroom Near Jawahar Circle,
Jaipur
Phone: 0141-4068311

Registered

File No : F(Tech)/Dausa(Dausa)/7250(1)/2023-2024/1851-1852

Order No : 2023-2024/Jaipur (S)/12709

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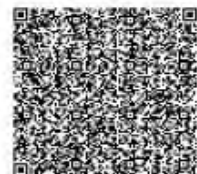
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Regional Officer[Jaipur (S)]

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APPENDIX 4: ENVIRONMENTAL SITE INSPECTION REPORT**Report 01**

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP) Sub-project Name – Water Supply and Sewerage Project	CONTRACT NUMBER: RSTDIP/MDW/03
DATE: 12/07/2023	SECTOR: Water and Sewage
LOCATION (Name of Sites Visited): Mandawa Town	Contractor: M/s LNA-R&B (JV)
PROJECT ACTIVITY: SBR Slab Shuttering, Deshuttering, Wall Brick Masonary, Boundary Wall Brick Work, Painting work.	Project Activity Stage- Construction Stage Site visit has done by- Mr. Vardan Srivastava (Environmental Safeguard Professional), CMSC-01 & Mr. Mani Kumar; Safeguard Support (Environment & Safety), 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 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, 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	✓			

Monitoring Items	Compliance			
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			✓	

Summary of safeguard compliance of contractor- Contractor is taking preventive measures during the construction work but need more attention towards the site safety and environmental related issues

Overall performance of contractor- Partially Satisfactory

Report 02

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP) Sub-project Name –Sewerage Project	CONTRACT NUMBER: RSTDIP/PRT/01
DATE: 20/07/2023	SECTOR: Sewage
LOCATION (Name of Sites Visited): Pratapgarh Town	Contractor: M/s Khilari Infra Pvt Ltd
PROJECT ACTIVITY: SBR Slab Shuttering, Deshuttering, Wall Brick Masonary, Boundary Wall Brick Work, Painting work.	Project Activity Stage- Construction Stage Site visit has done by- Mr. Mahaveer Prasad Saini (Environment Safeguard Professional CMSC – II Jodhpur

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, 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			✓	

Summary of safeguard compliance of contractor- Contractor is taking preventive measures during the construction work but need more attention towards the site safety and environmental related issues

Overall performance of contractor- Partially Satisfactory

Report 03

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP) Sub-project Name –Water Supply, Sewerage & Rehabilitation Project	CONTRACT NUMBER: RSTDIP/BNS/04
DATE: 18/07/2023	SECTOR: Water Supply, Sewerage & Rehabilitation Project
LOCATION (Name of Sites Visited): Banswara Town	Contractor: M/s BIPL-SC-HP Joint Venture
PROJECT ACTIVITY: SBR Slab Shuttering, Deshuttering, Wall Brick Masonary, Boundary Wall Brick Work, Painting work.	Project Activity Stage- Construction Stage Site visit has done by- Mr. Mahaveer Prasad Saini (Environment Safeguard Professional) CMSC – II Jodhpur

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, 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	✓			

Monitoring Items	Compliance			
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			✓	

Summary of safeguard compliance of contractor- Contractor is taking preventive measures during the construction work but need more attention towards the site safety and environmental related issues

Overall performance of contractor- Partially Satisfactory

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

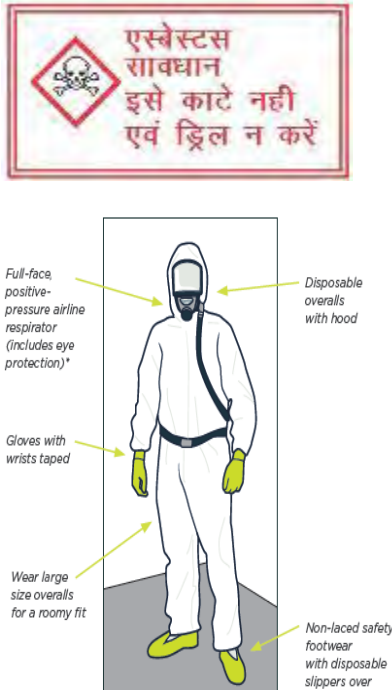
7. The purpose of this Asbestos Management Plan (AMP) is to identify, use appropriate methodology and scientifically handling /disposal of the Asbestos Containing Materials (ACM) in order to comply with the applicable National legislation and International standards in sync with norms of ADB's SPS 2009. 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

10. 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.

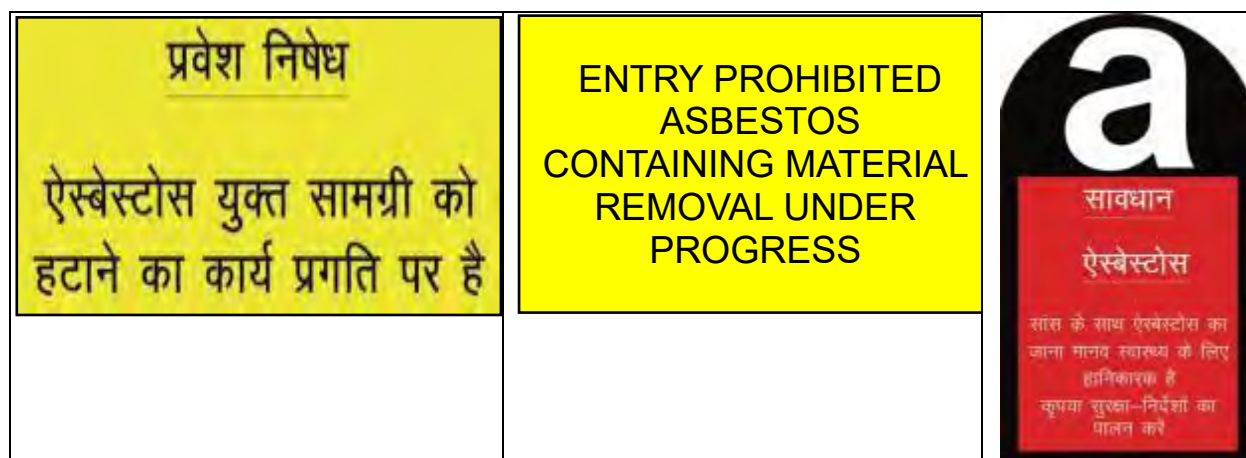


Figure 1: Asbestos warning signage during removal of ACM from site

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**).

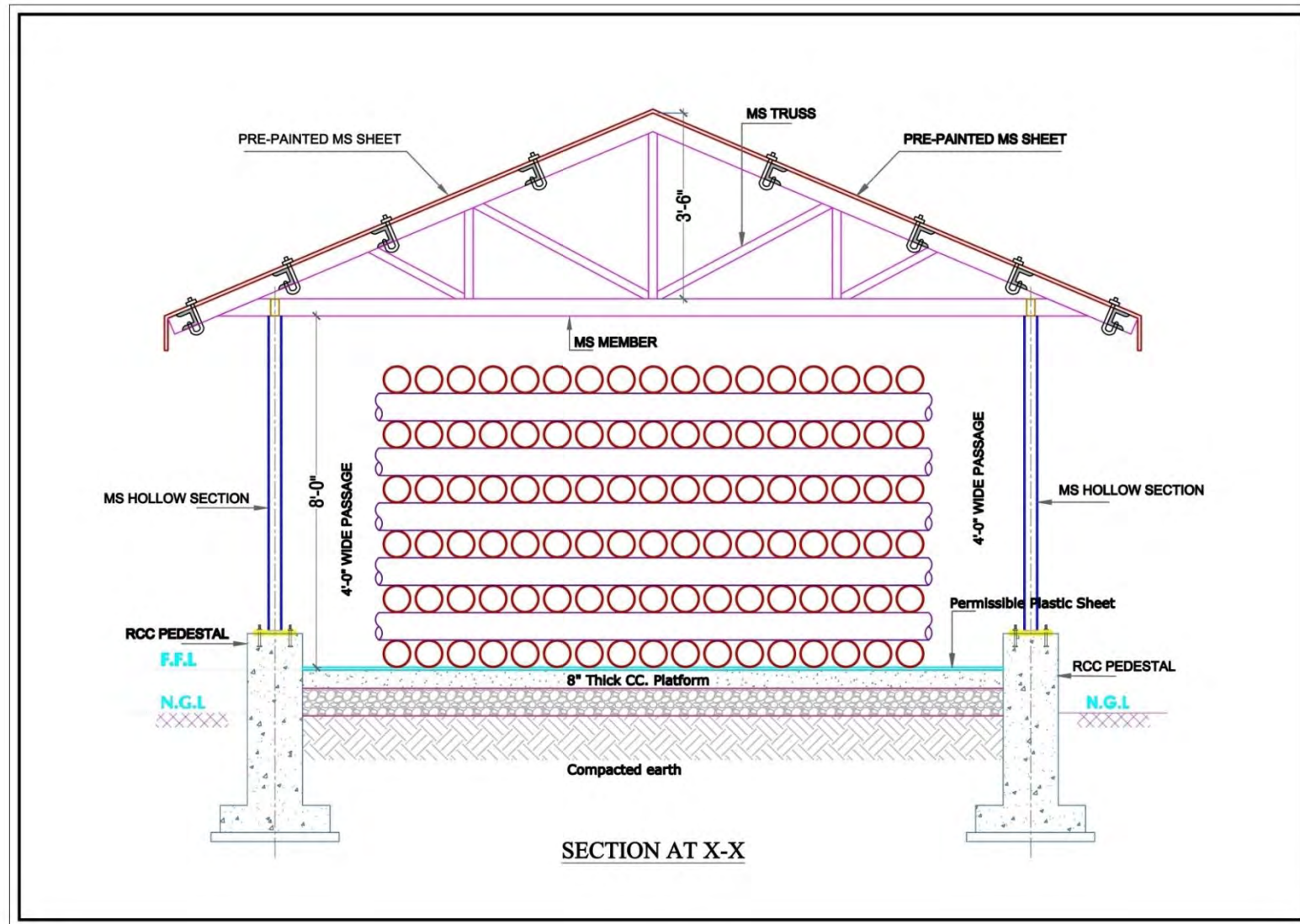


Figure 2: Schematic diagram showing ACM Pipes stacking

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**).

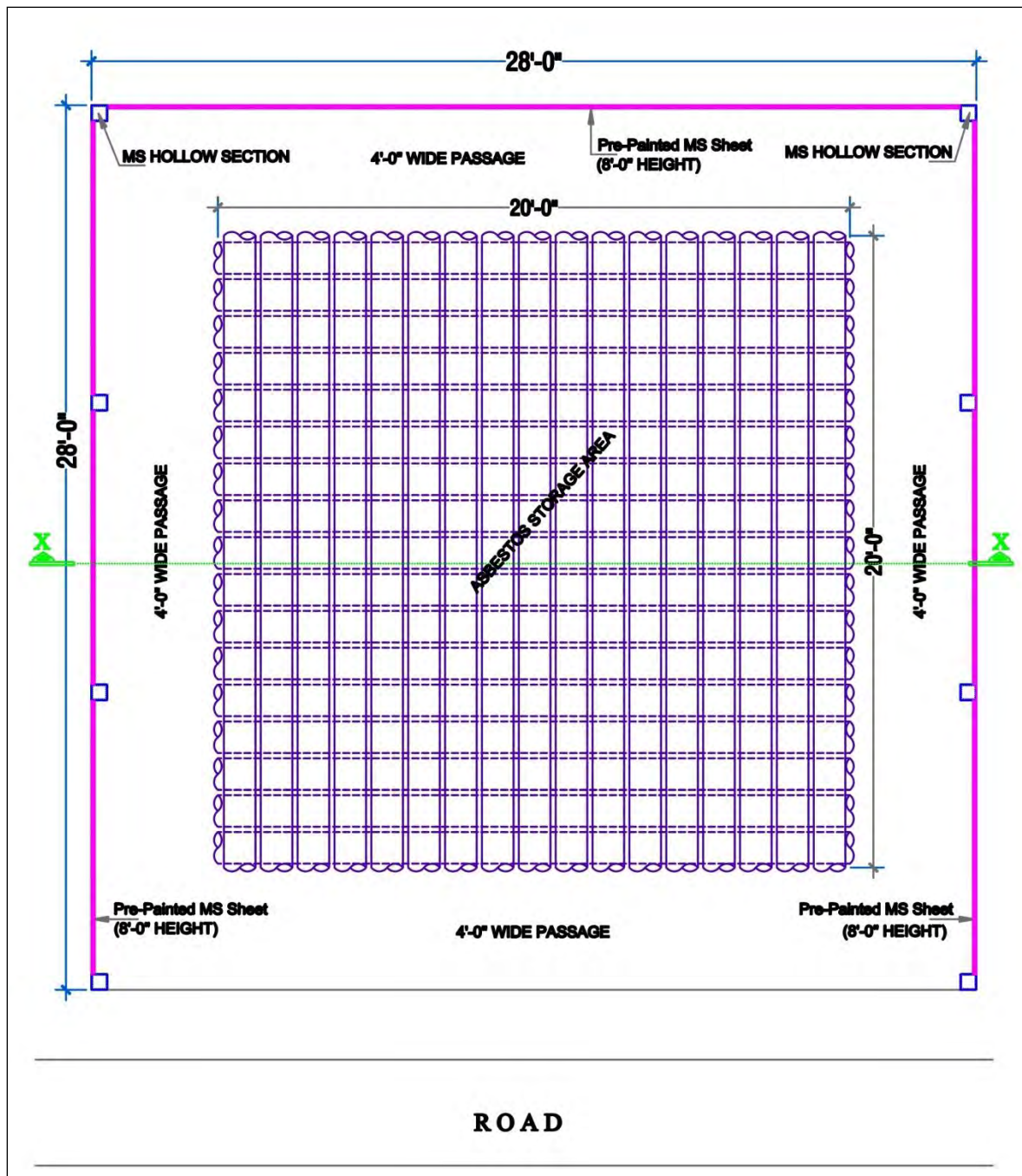


Figure 3: Schematic diagram showing ACM Pipes storage area



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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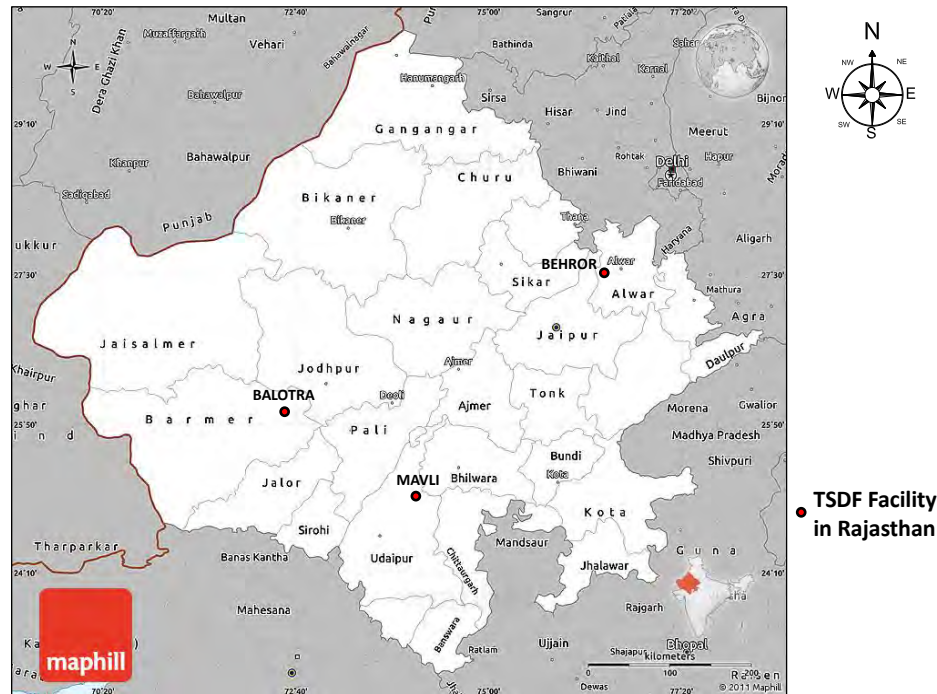
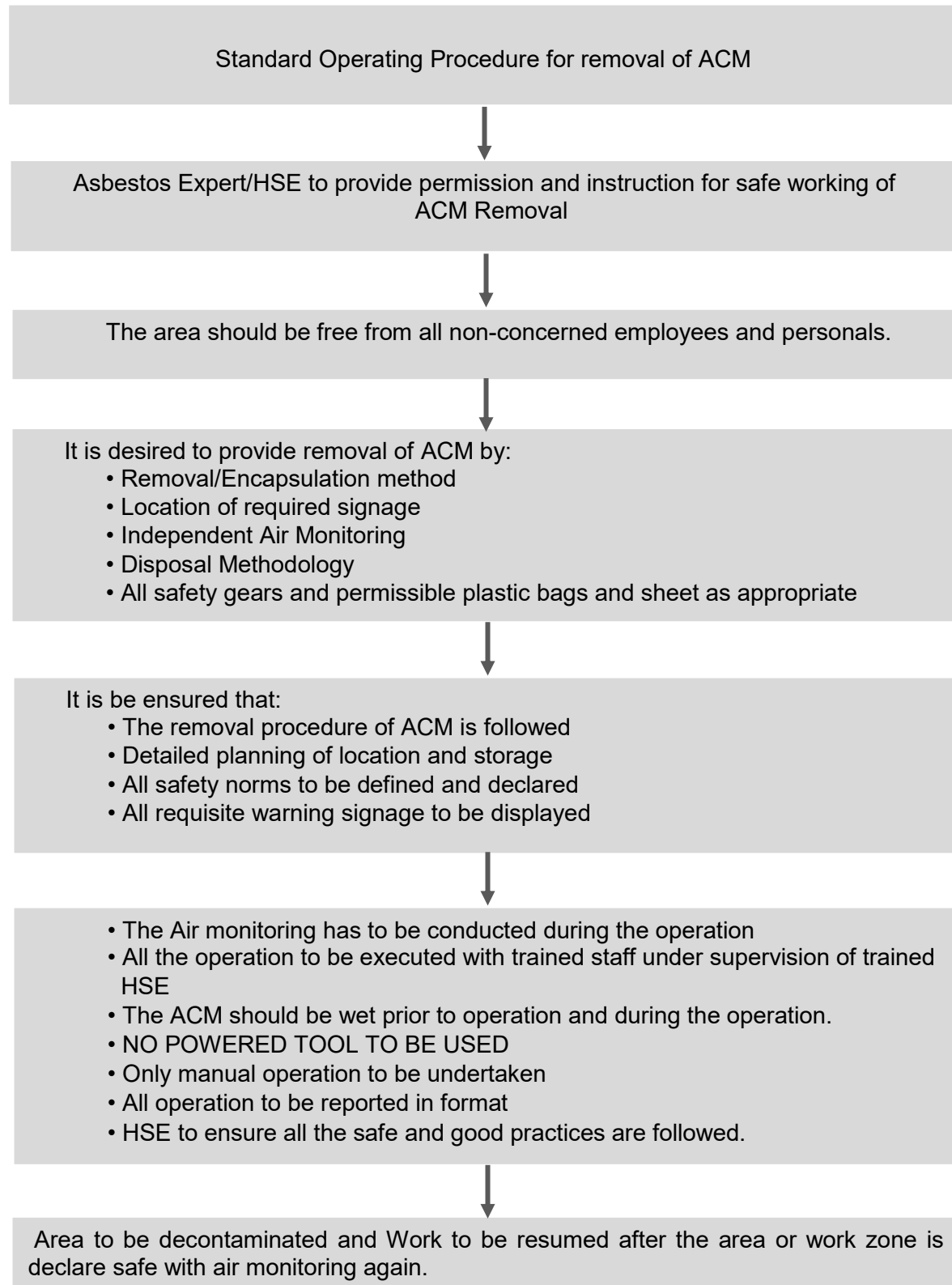


Figure 5: Map of the locations of approved TSDF in Rajasthan.

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.

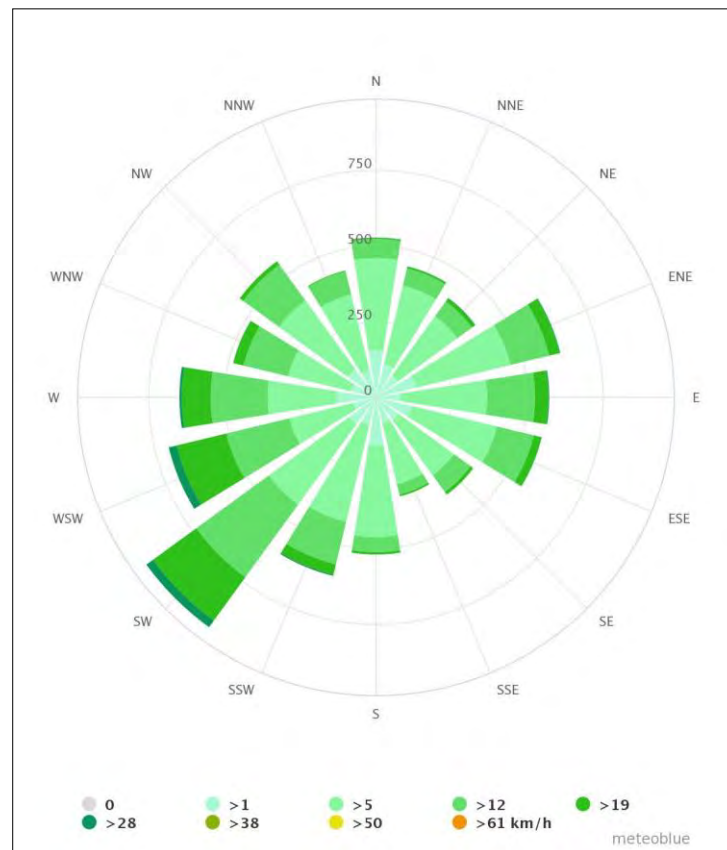


Figure 7: Predominant Wind Direction in Sardarshahar, District-Churu, Rajasthan

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 -

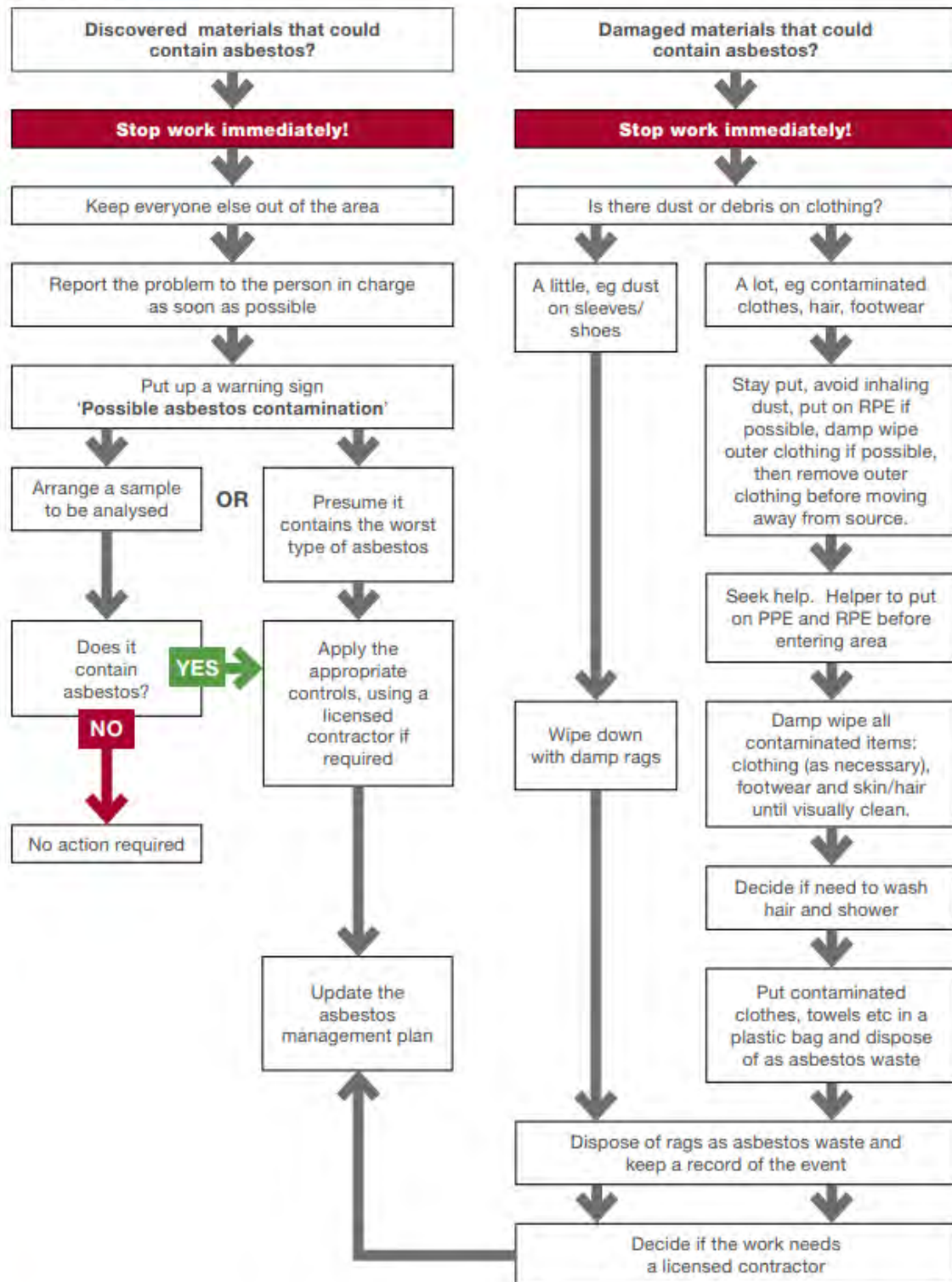


Figure 8: Flow chart of ERP

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: 2356

दिनांक: -12/01/2023

श्रीमान अधिशाषी अभियन्ता,
आरयूआईडीपी सरदारशहर।

विषय:- शहरी जल योजना सरदारशहर पर ए.सी. प्रेशर पाईप लाईन का विवरण।
 सदर्भ:- आरयूआईडीपी के पत्रांक 1350-58 दिनांक 11.07.2022 के क्रम में।

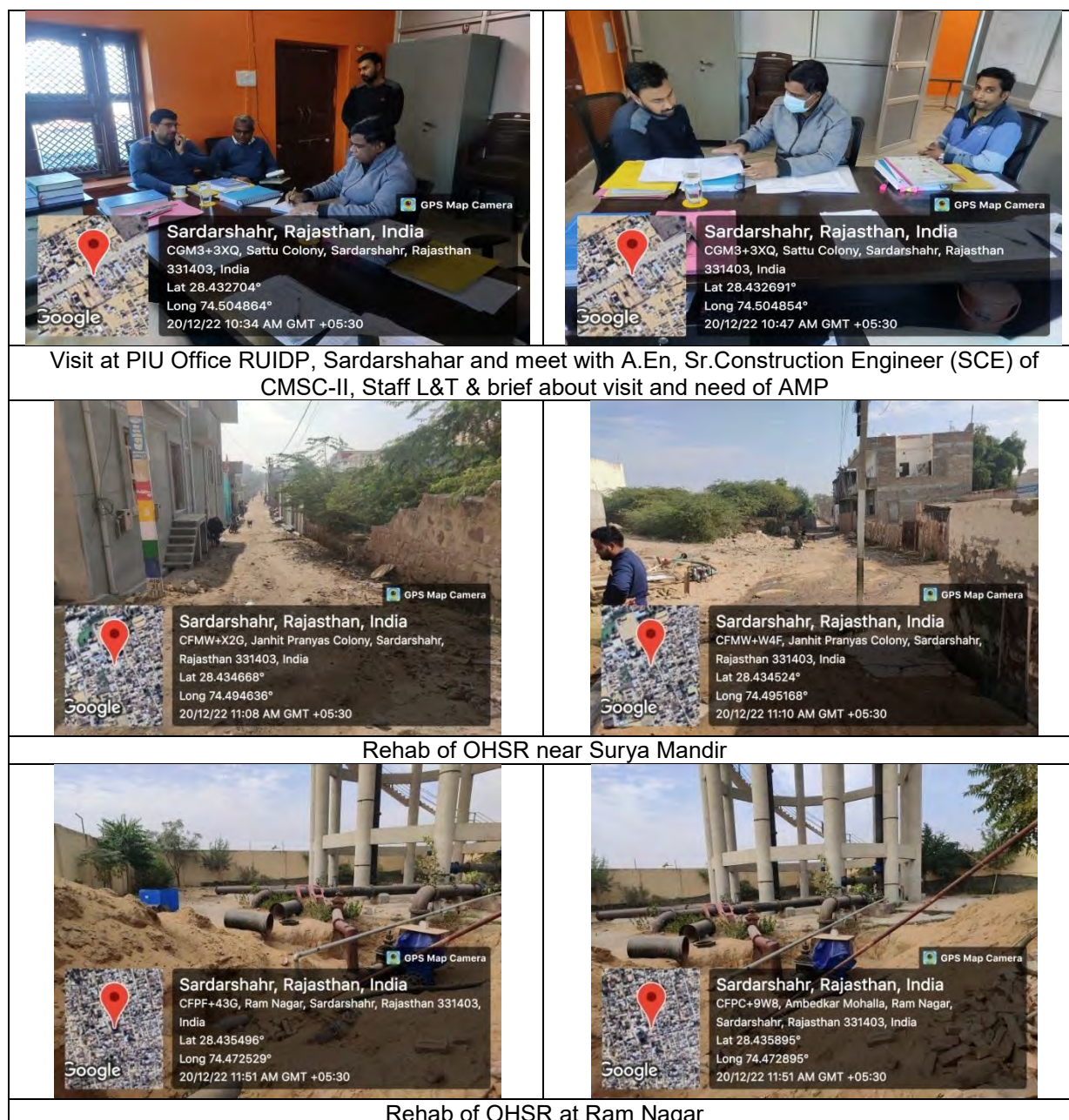
उपरोक्त विषयान्तर्गत निवेदन है कि आप द्वारा चाही गई सूचना इस कार्यालय में उपलब्ध
 रिकार्ड अनुसार निम्नानुसार है:-

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 Sardarshahr Town



Visit at PIU Office RUIDP, Sardarshahr and meet with A.En, Sr.Construction Engineer (SCE) of CMSC-II, Staff L&T & brief about visit and need of AMP

Rehab of OHSR near Surya Mandir

Rehab of OHSR at Ram Nagar



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.

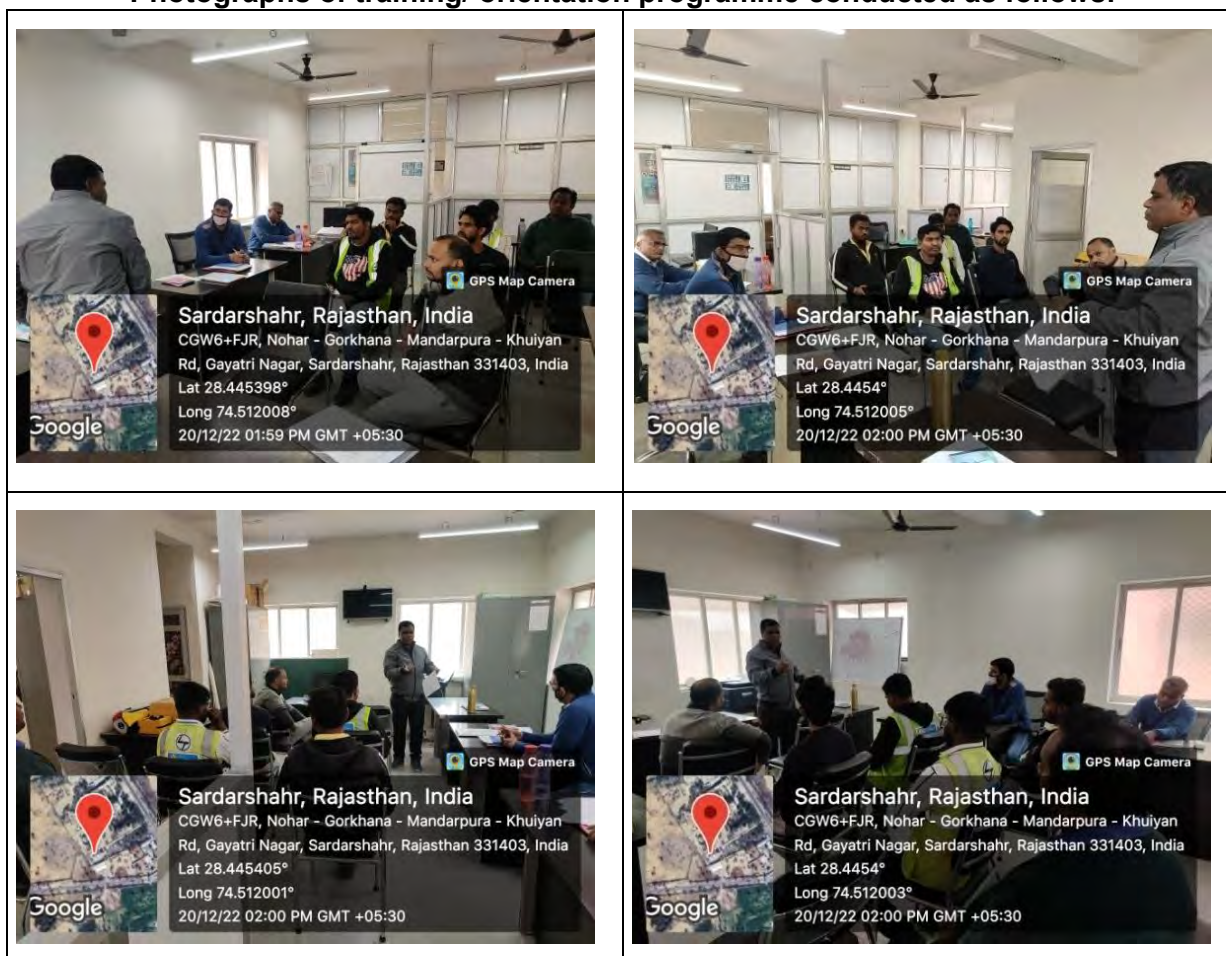
Pre-dominant wind direction needs to be considered in planning of storage of ACM at designated place if occurred in near future. No habitation should be located near in downwind direction of ACM storage or its immediate vicinity.

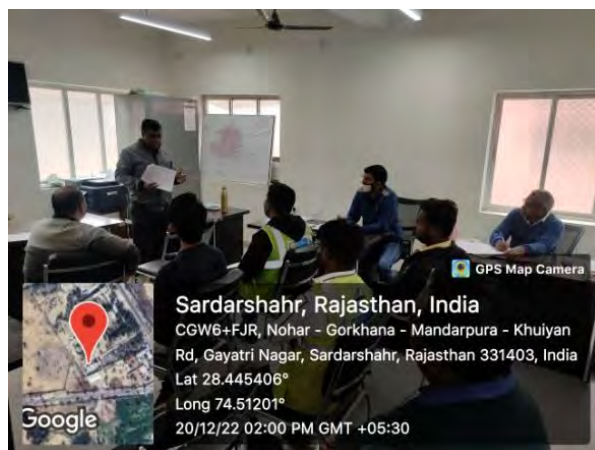
During discussion with SCE-CMSC-II, works of laying of WS distribution network (approx.65%) have laid in different zones in Sardarshahar Town. During visit of subproject components such as 1 nos of CWR 2400KL capacity under construction at PHED Ex.En. Campus, Pump House, CRMC-1, 1 MCC and 1 CCC. CRMC-2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





Photographs during Training/ Orientation on Asbestos Management at PHED Ex.En. Campus, Sardarshahr

Attendance Sheet

TRAINING ON ASBESTOS MANAGEMENT

Project Town: Sardarshahr, District - Churu, Raj.

Venue: PHED Campus, Sardarshahr

Date: 20/12/2022

S.No.	Name of Person	Gender	Designation	Contact No.	Signature
①	Dinesh Kumar	M	Asst. Eng.	8949425829	[Signature]
②	Nyankatsau B. Pali	M	SCB CMC	9860112885	[Signature]
③	AFZAL ANSARI	M	Env. Safety	829956267	[Signature]
④	Rakesh K. Sahu	M	Asst. Mgr. EHS	9439466674	[Signature]
⑤	Suresh Kumar	M	Planning Engineer	7355120113	[Signature]
⑥	Amit Kumar	M	A.C.M (L&T)	707323072	[Signature]
⑦	Nilesh Choudhary	M	Execution Engineer (L&T)	9051619798	Nilesh Choudhary
⑧	Mohish Khan	M	Safety Supervisor (L&T)	7014536714	Mohish Khan
⑨	Mohd. Tazayee	M	Safety Supervisor (L&T)	7860539843	Tazayee

Ch. D.
20/12/2022
Asbestos Expert
PM CBC

**Appendix-7: Photographs & Attendance sheets of Safeguard Orientations & Trainings
(During April 2023 to September 2023)
(by Environmental Safeguard Professionals of CMSC I & II)**



Photos of Safeguard Orientation at Pratapgarh Town during Site Visit on dated 18.07.2023



Photos of Safeguard Orientation at Banswara Town during Site Visit on dated 01.08.2023

Attendance sheets of Safeguard Orientations & Trainings (During April 2023 to September 2023) (by Environmental Safeguard Professionals of CMSC I & II)

Attendance sheet of Safeguard Orientations & Trainings at Pratapgarh Town

Attendance Sheet of Onsite Training Orientation
At 3.8 MLD STP Site near Old NH-11 :->

<u>Name of Participants</u>	<u>Signature</u>
Basanti Rekwal S/o Manifam - Worker	श्री ११/१२
Ranu Rekwal S/o Mukesh Rekwal - Worker	
Mamku S/o Kishan Lal - Worker	
Sukhwesh S/o Braj Lal - Worker	

Attendance sheet of Safeguard Orientations & Trainings at Banswara Town

Banswara Sewerage and Water Supply Sub-Project - RUSTDP-IV

Place: WTP Site, AEN Campus = DATE 01 08 2023

Attendance sheet: -

S.N.	Name of Participant	Occupation	Residence	Mobile No	Signature
1	राजेश	मजदूर	बिहारी	9712508754	राजेश कुमार
2	रामेश	मजदूर	बिहारी	9006172034	प्रमोद कुमार
3	श्रीमती कुमारी यादव		बिहारी	96978186948	श्रीमती
4	सोनी भाई		बिहारी	9265428775	पंडित सुनील
5	वज्रसिंह भाई		"	9925246858	वज्रसिंह
6	हेमंत चिमन		"	8980498526	महेश कुमार
7	चंद्र भाई		"	9712095052	महेश कुमार
8	वीर सिंह		"	—	—
9	पुष्पात सिंह		"	9913164008	ली 2 सीटी
10	हरि लाल शर्मा		बिहारी	9576627900	प्रमोद कुमार
11	सुनील यादव		"	9297630739	सुनील
12	मनाज यादव		"	9257843706	मनाज यादव
13	जगदीश यादव		"	—	—
14	डेन डेन यादव		"	8091757691	सुनील
15	चन्द्रा मूषण यादव		"	9117039965	चन्द्रा मूषण
16	राहुल कुमार साहनी		"	7061572029	राहुल साहनी
17	विजय यादव		"	—	विजय
18	दिलीप यादव		"	6284225785	दिलीप
19	राजेश भाई पतेश सिंह		"	8780674979	Rajeshwar
20	विनोद खोखर		बिहारी	9166458123	विनोद
21	परमज पटेल		बिहारी	8469318675	परमज
22	प्रभात रतन		"	9712116612	प्रभात
23	रमाशंकर यादव		बिहारी	—	रमाशंकर
24	मनाज कुमार यादव		"	8580564107	मनाज
25	सोनी यादव		"	9123138314	सोनी
26	हेमंत यादव		"	—	हेमंत यादव
27					
28					
29					
30	classmate				

PAGE

Appendix 8: EHS ACTIVITIES BY DIFFERENT CONTRACTORS DURING REPORTING PERIOD (April 2023 to September 2023)

EHS Activities by contractors at Abu Road Town during April 2023 to September 2023

 326° NW Hawar Patti Road Manpur Jodhpur Division Rajasthan Altitude: 222.9m Index number: 6632 May 19, 2023 6:20:22 PM	 263° W Index number: 7476 Jun 12, 2023 5:06:21 PM
Contractor Workmen Training (CWT)	Site Specific Training (SST)
 37° N Jodhpur Division Rajasthan Altitude: 222.9m Index number: 6632 May 19, 2023 6:20:22 PM 170° N Jodhpur Division Rajasthan Altitude: 222.9m Index number: 6632 May 19, 2023 6:20:22 PM 263° W Jodhpur Division Rajasthan Altitude: 222.9m Index number: 6632 May 19, 2023 6:20:22 PM	 263° W Jodhpur Division Rajasthan Altitude: 222.9m Index number: 6632 May 19, 2023 6:20:22 PM 263° W Jodhpur Division Rajasthan Altitude: 222.9m Index number: 6632 May 19, 2023 6:20:22 PM 263° W Jodhpur Division Rajasthan Altitude: 222.9m Index number: 6632 May 19, 2023 6:20:22 PM
Mock Drill Training on Electrocution	Mock Drill Training on Snake Bite
 Abu Road, Rajasthan, India FQG6+F2R, Abu Road, Rajasthan 307026, India Lat 24.477082° Long 72.76162° 07/08/23 10:11 AM GMT +05:30	 74° E Manpur Jodhpur Division Rajasthan Altitude: 224.3m Index number: 6838 May 24, 2023 10:27:48 AM
Pep Talk	Alert Training
 324° NW Revdar Road Manpur Jodhpur Division Rajasthan Altitude: 211.5m Index number: 6039 May 2, 2023 1:23:47 PM	 330° NW MDR 49 Manpur Jodhpur Division Rajasthan Altitude: 214.5m Speed: 0.0km/h Index number: 9693 Sep 12, 2023 2:49:03 PM
Induction Training	Electrical Safety Training



Others Training (OT)



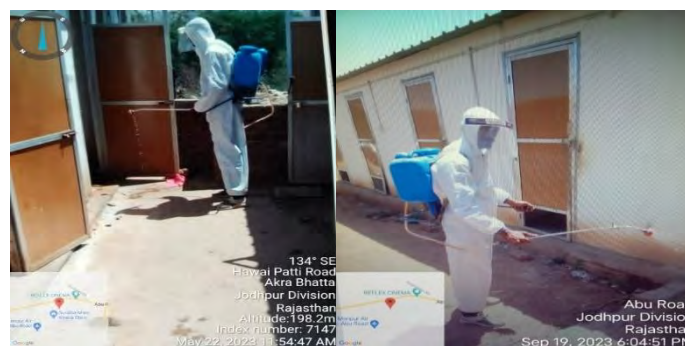
Training on Work at Height safety



Training on Road safety



Tree Plantation Activity



Disinfection activity



First Aid Training

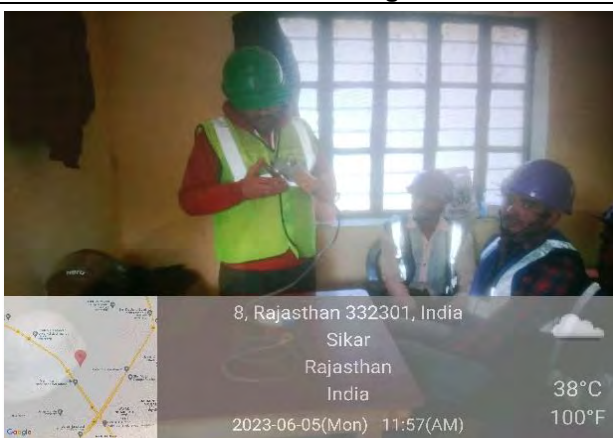


Medical Health Checkup



EHS Induction & COVID Precaution Training

EHS Activities at Sirohi Town**Contractor Workmen Training (CWT)****Site Specific Training (SST)****Pep Talk****Mock Drill Training****On Job Training****OJT Training****Medical Health Checkup****EHS Induction & COVID Precaution Training**

EHS Activities at Fatehpur Town**Contractor Workmen Training (CWT)****Site Specific Training (SST)****Mock Drill Training****Pep Talk****Site Specific Training (SST)****Alert Training****Induction Training****Electrical Safety Training**

**Others Training (OT)****Training on Work at Height safety****Training on Road safety****Tree Plantation Activity****Disinfection activity****First Aid Training****Medical Health Checkup****EHS Induction & COVID Precaution Training**

EHS Activities at Laxmangarh Town**Contractor Workmen Training (CWT)****Site Specific Training (SST)****Mock Drill Training on Electrocution****Mock Drill Training on Snake Bite****Pep Talk****Alert Training****Induction Training****Electrical Safety Training**

**Others Training (OT)****Training on Work at Height safety****Training on Road safety****Tree Plantation Activity****Disinfection activity****First Aid Training****Medical Health Checkup****EHS Induction & COVID Precaution Training**



Environmental Monitoring Report

PUBLIC

Semestral Report: April 2023 – September 2023
March 2024

India: Rajasthan Secondary Towns Development Sector Project

Part 3 of 5: Appendix 8 (continued)

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

EHS Activities at Ratangarh Town

	
Contractor Workmen Training (CWT)	Site Specific Training (SST)
	
Mock Drill Training	Workman Quiz
	
Pep Talk	Alert Training
	
Induction Training	Electrical Safety Training

**Others Training (OT)****Training on Work at Height safety****Training on Road safety****Tree Plantation Activity****Disinfection activity****Glucose distribution to workers at Site****Medical Health Checkup****EHS Induction & COVID Precaution Training**

EHS Activities at Sardarshahar Town

 Unnamed Road, Rajasthan 331403, India Churu Rajasthan India 29°C 84°F 2023-04-08(Sat) 10:11(AM)	 Shot on OnePlus Sardar Shahar Road, Rajasthan 331403, India 29°C
Contractor Workmen Training (CWT)	Site Specific Training (SST)
 regime Shot on OnePlus 25°C	 Shot on OnePlus 25°C
Mock Drill Training on Electrocution	Mock Drill Training on Snake Bite
 Unnamed Road, Rajasthan 331403, India Churu Rajasthan India 38°C 100°F 2023-06-12(Mon) 10:21(AM)	 Unnamed Road, Rajasthan 331403, India Decimal DMS Latitude 28.414984 28°24'53" N Longitude 74.482415 74°28'56" E 2023-08-07(Mon) 10:42
Pep Talk	Alert Training
 Shot on OnePlus Sardar Shahar Road, Rajasthan 331403, India By: Mordor	 Unnamed Road, Rajasthan 331403, India Churu Rajasthan India 35°C
Induction Training	Electrical Safety Training



Others Training (OT)



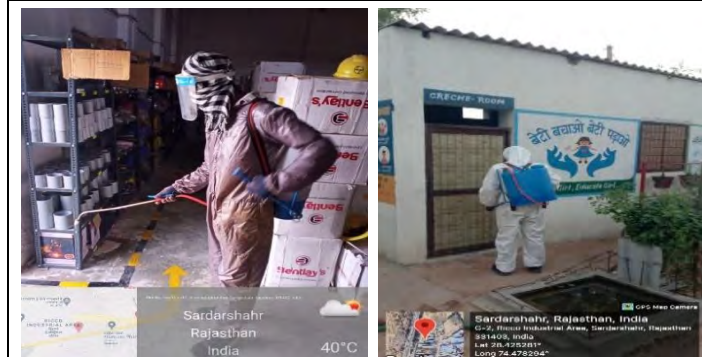
Safety Quiz Competition



Training on Road safety



Tree Plantation Activity



Disinfection activity



First Aid Training



Medical Health Checkup



EHS Induction & COVID Precaution Training

EHS Activities at Pratapgarh Town

 Pratapgarh, Rajasthan, India 2QH9+J38, Pratapgarh, Rajasthan 312605, India Lat 24.029139° Long 74.768036° 11/04/23 02:23 PM GMT +05:30	 Pratapgarh, Rajasthan, India 2QHF+472, Fortress, Pratapgarh, Rajasthan 312605, India Lat 24.027882° Long 74.77303° 15/05/23 02:27 PM GMT +05:30
Contractor Workmen Training (CWT)	Site Specific Training (SST)
 Pratapgarh, Rajasthan, India 2QHF+472, Fortress, Pratapgarh, Rajasthan 312605, India Lat 24.027882° Long 74.77303° 15/05/23 02:29 PM GMT +05:30	
Fire & safety Training	Covid-19 Awareness Training
 2QH9+J38, Pratapgarh, Rajasthan 312605, India Pratapgarh Rajasthan India 2023-03-29(Wed) 02:25(pm) 34°C 93°F	
Pep Talk	Alert Training
	
Induction Training	Hand Sanitization activity of workers at site
	 2QH9+J38, Pratapgarh, Rajasthan 312605, India Pratapgarh Rajasthan India 2023-03-29(Wed) 02:29(pm) 34°C 93°F
Oxygen Mask Training	Training on Work at Height safety

EHS Activities at Banswara Town

 Banswara, Rajasthan, India plot no 18, plaza hotel street, muslim colony dialab, Muslim Colony, Banswara, Rajasthan 327001, India Lat 23.557116° Long 74.449254°	 Dhamaniya, Rajasthan, India HC99+2Q, Dhamaniya, Rajasthan 327001, India Lat 23.565172° Long 74.417666°
Contractor Workmen Training (CWT)	Site Specific Training (SST)
 Banswara, Rajasthan, India GFX5+9PV, Rishi Kuni, Banswara, Rajasthan 327001, India Lat 23.546338° Long 74.458532°	
Labour Day Awareness	Fire Safety Training
 Banswara, Rajasthan, India F20, F20, Salumbar-Banswara Rd, Ganesh Colony, Rati Talai, Banswara, Rajasthan 327001, India Lat 23.554252° Long 74.44423°	
Pep Talk	Alert Training
 Banswara Rural, Rajasthan, India GCWR+HM2, Harjan Colony, Bhagat Singh Colony, Banswara Rural, Banswara, Rajasthan 327001, India Lat 23.546802° Long 74.44184° 04/09/23 09:03 AM GMT +05:30	
Training Of Material Handling	Electrical Safety Training
 Banswara Rural, Rajasthan, India Ugnia+hu0w, GPS2+8H5, Khandanwadi, Banswara Rural, Banswara, Rajasthan 327001, India Lat 23.546802° Long 74.451004° 24/08/23 06:53 AM GMT +05:30	
Training on Road safety	Tree Plantation Activity

EHS Activities at Didwana Town

	
Contractor Workmen Training (CWT)	Site Specific Training (SST)
	
Mock Drill Training on Electrocution	Mock Drill Training on Heat Stress
	
Pep Talk Training	Alert Safety Training
	
Induction Training	Electrical Safety Training

**Scaffolding Training****Training on Work at Height safety****Medical Health Checkup****Tree Plantation Activity****Safety Quiz for Workmen at Site****Labour day Celebrated with labours at Site****Driver Safety Training****Full Body Harness (FBH) inspection**

EHS Activities at Makrana Town

 Contractor Workmen Training (CWT)	 Site Specific Training (SST)
 Mock Drill Training on Heat Stress	 Mock Drill Training on Heat by vehicle
 Pep Talk	 Alert Training
 Induction Training	 Electrical Safety Training



Fire Fighting Training



Training on Work at Height safety



Training on Material Handling



Celebrated World Environment Day by Tree Plantation



Medical Health Checkup



Labour Day Celebrated with Labours



EHS Quiz for Workmen



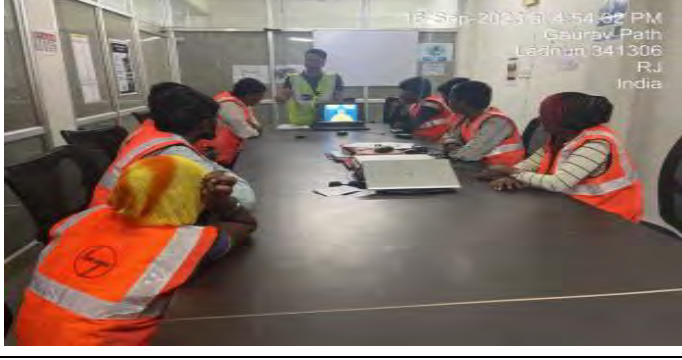
EHS Reward Distribution

	
Environmental Monitoring at Site	Workmen Wellness Activity (YOGA during International Yoga Day)

EHS Activities at Mandawa Town

	
Excavation Work safety training	Electrical Safety Training
	
Thermal Screening and Hand Sanitization activities	Training on Work at Height safety
	
Medical Health Checkup	Fire Fighting Training

EHS Activities at Ladnu Town

 26 Aug 2023 11:36:42 am Ladnun Ajmer Division Rajasthan	
Contractor Workmen Training (CWT)	Site Specific Training (SST)
	
Mock Drill Training on Heat stress	Mock Drill Training on Slip Trip fall
 Sep 5, 2023 9:56:45 AM Ladnun Ajmer Division Rajasthan	 11 Sep 2023 11:38:27 am Ladnun Ajmer Division Rajasthan @abhishek Mishra
Pep Talk	Alert Training
 18 Sep 2023 6:45:42 PM Gaurav Path Ladnun 341306 RJ India	
Induction Training	Electrical Safety Training

**OCP Training****Training on Work at Height safety****COVID Sanitizing activities at Store-Workmen Habitat****Tree Plantation Activity****Wellness activity for workmen – YOGA****Fire Fighting Safety Training****Medical Health Checkup****EHS Quiz for Workmen**

EHS Activities at Kuchaman Town

 GPS Map Camera Haritpura, Rajasthan, India 5VFM+56Q, Haritpura, Rajasthan 341508, India Lat 27.173769° Long 74.883475° 23/05/23 05:05 PM GMT +05:30	 20 Sept-2023 12:12:19 Kuchaman - Sikar - Bidwana Road Kuchaman City Ajmer Division Rajasthan
Contractor Workmen Training (CWT)	Site Specific Training (SST)
	 25 Sep 2023 4:14:34 pm Sabalpur Kuchaman City Ajmer Division Rajasthan
Mock Drill Training on Electrocution	Training on Work at Height safety
 3 May 2023 3:35:09 pm Road Kuchaman City Ajmer Division Rajasthan	 12 Sep 2023 4:13:30 pm Sabalpur Kuchaman City Ajmer Division Rajasthan
Pep Talk	Alert Training
 8 Jun 2023 3:17:43 pm Nagaur Ajmer Division Rajasthan	 8 Sep 2023 4:39:35 pm Kuchaman - Sikar - Bidwana Road Kuchaman City Ajmer Division Rajasthan
Induction Training	Electrical Safety Training

**Cardiopulmonary resuscitation (CPR) Training****World Environment Day Celebrated by Tree Plantation Activity****Medical Health Checkup****First Aid Training**

EHS Activities at Khetri Town

 GPS Map Camera Khetri, Rajasthan, India 20FV+94W, Khetri, Rajasthan 333503, India Lat 28.022044° Long 75.792779° 18/05/23 06:04 PM GMT +05:30	 GPS Map Camera खरिया कुआ, राजस्थान, भारत 206J+JQ9, खरिया कुआ, राजस्थान 333503, भारत Lat 28.011863° Long 75.782637° 19/05/23 06:17 PM GMT +05:30	 Khetri Rajasthan India 36°C 97°F 2023-07-02 (Wed) 09:51:00 PM
Environment Monitoring at Site		Hand Vibration Electric Machine Safety Training
		
Training on Excavation Safety	Training on Work at Height safety	
	 Khetri Rajasthan India 37°C 99°F 2023-07-02 (Wed) 09:51:00 PM	
Computer, Masons, Plumber certificate program	Tree Plantation Activity	
		
Training on HIV/AIDS, Health and Hygiene to workers	First Aid Training	

Good Practices at Site by different contractors during reporting period (April 2023 to September 2023)

Good Practice at Site (Abu Road Town)



Good Practice at Site (Sirohi Town)**Good Practise PPEs****Good Practice House Keeping****Good Practise Emergency No. Display****Good Practise - Posters & Sign Board & Fire extinguisher****Good Practice at Site (Banswara Town)****Good Practice Barricading****Good Practise PPEs****Good Practise Material handling****Good Practice Excavation & trenching**

Good Practice at Site (Fatehpur Town)**Good Practice Barricading****Good Practice House Keeping****Good Practise PPEs****Good Practise Electrical****Good Practise Material handling****Good Practice Excavation & trenching**

आपातकालीन संपर्क जानकारी Emergency Contact Information			
Sl. No	Name	Designation	Mobile No.
1	Mr. Madheshwar Kumar Raj	Project Manager	9219070352
2	Mr. Sanjeev Sharma	Accounts & Admin Head	9863344603
3	Mr. Prashant Trikolwar	IR & Admin Head	9587683111
4	Mr. Rajesh Kumar	Construction Manager	6377867438
5	Mr. Nagubandi Sai Venkatesh	Planning	7416630102
6	Mr. Ravi Raj	Store In-charge	8696945430
7	Mr. Mustafa	EHSO	9995978964
8	Mr. Rahul Kumar	Site Engineer	9236737443

**Good Practise Emergency No. Display & Fire extinguisher****Good Practise - Posters & Sign Board**

Good Practice at Site Laxmangarh Town



Good Practice Barricading



Good Practice House Keeping



Good Practise PPEs



Good Practise Electrical



Good Practise Fire extinguisher at Site



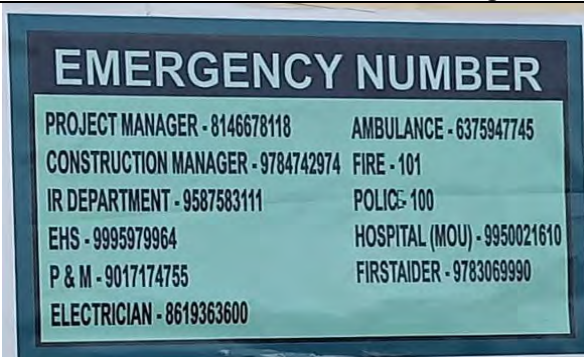
Good Practice Excavation & trenching

क्रम संख्या	नाम	पद	संपर्क नंबर
01	श्री माधवराज कुमार राज	प्रोजेक्ट मैनेजर	+91-9050134560
02	श्री प्रसांत वी. टी.	प्रमुख - आईआर और पर्यावरण	+91-9587583111
03	श्री नीरज सिंह	प्रोजेक्ट प्रभारी	+91-9675171504
04	श्री यमना राघव रेड्डी	प्रमुख - लेखा	+91-8106396199
05	श्री लाली प्रवीण रेड्डी	साइट इंजीनियर	+91-9704719799
06	श्री वन साई वेकटेश	योजना प्रभारी	+91-7416630102
07	श्री विजय कुमार राय	स्टोर प्रभारी	+91-7974513098
08	श्री निधिन सुब्रह्मण्यम	साइट इंजीनियर	+91-7829350091
09	श्री अरुण सरकार	साइट इंजीनियर	+91-8945618718
10	श्री विजय मोरार	साइट इंजीनियर	+91-7001457720
11	श्री मनदीप मलिया	ईएचएसओ	+91-8826068677
12	श्री विनायक देव	ईएचएसओ	+91-9432313638
13	श्री शिवराज सिंह	पर्यवेक्षक - आईआर और पर्यावरण	+91-8949652890
14	श्री मनोज कुमार चौधरी	पर्यवेक्षक - स्टोर	+91-7506655044
15	श्री बाबूराज खान	पर्यवेक्षक - ईएचएसओ	+91-9783827440

Good Practise Emergency No. Display



Good Practice - Posters & Sign Board

Good Practice at Site (Ratangarh Town)**Good Practice Barricading****Good Practice Excavation & trenching****Good Practise PPEs****Good Practice House Keeping****Good Practise Material handling****Good Practise Electrical****Good Practise Emergency No. Display****Good Practise Fire extinguisher at Site**

Good Practice at Site (Sardarshahar)



Good Practice Barricading



Good Practice House Keeping



Good Practise PPEs



Good Practise Electrical (RCCB Testing)



Good Practise - Posters & Sign Board



Good Practice Excavation & trenching



Good Practise Emergency No. Display



Good Practise - Posters & Sign Board & Fire extinguisher

Good Practice at Site (Pratapgarh)

	
Good Practice Barricading	Good Practice House Keeping
	
Good Practise PPEs	Good Practice -Material Stacking
	
Good Practise Emergency No. Display	Good Practise - Posters & Sign Board & Fire extinguisher



Environmental Monitoring Report

PUBLIC

Semestral Report: April 2023 – September 2023
March 2024

India: Rajasthan Secondary Towns Development Sector Project

Part 4 of 5: Appendix 8 (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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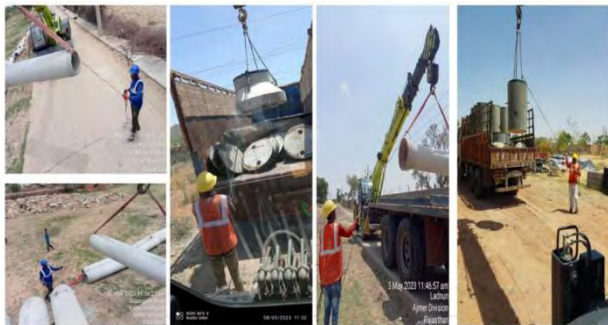
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Asian Development Bank

Good Practice at Site (Didwana Town)

Good Practice Barricading		Good Practice House Keeping	
Heat Stress Awareness & Glucose/ORS Distribution to Workers at Site		Good Practise Electrical	

Good Practice at Site (Makrana Town)

	
Good Practice Barricading	Good Practice House Keeping
	
Good Practise Material handling	Good Practise Electrical (RCCB Testing)

Good Practice at Site (Ladnu)

	
Good Practice Barricading	Good Practice House Keeping
	
Good Practise Material handling	Labour Day Celebration

Good Practice at Site (Khetri Town)

	
Good Practice Barricading	Good Practice House Keeping

**Appendix 9: SAFEGUARD TRAININGS CONDUCTED BY CONTRACTORS
(APRIL 2023 TO SEPTEMBER 2023)**

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
Kuchaman Town					
1.	Site Specific Training (SST)	04-04-2023	Kuchaman	Anurag Bagherwal	08
2.	Site Specific Training (SST)	04-04-2023	Kuchaman	Anurag Bagherwal	13
3.	Contractor Workmen Training (CWT) on Excavation Safety, Electrical Safety, Importance of Mandatory Pipes, Material Handling Safety & Safety for COVID 19)	05-04-2023	Kuchaman	Anurag Bagherwal	13
4.	First Aid Training (FAT)	05-04-2023	Kuchaman	Anurag Bagherwal	08
5.	Contractor Workmen Training (CWT)	08-04-2023	Kuchaman	Anurag Bagherwal	07
6.	Site Specific Training (SST)	11-04-2023	Kuchaman	Anurag Bagherwal	10
7.	Site Specific Training (SST)	13-04-2023	Kuchaman	Anurag Bagherwal	07
8.	Contractor Workmen Training (CWT)	15-04-2023	Kuchaman	Anurag Bagherwal	08
9.	First Aid Training (FAT)	15-04-2023	Kuchaman	Anurag Bagherwal	07
10.	Site Specific Training (SST)	15-04-2023	Kuchaman	Anurag Bagherwal	08
11.	Contractor Workmen Training (CWT)	17-04-2023	Kuchaman	Anurag Bagherwal	04
12.	First Aid Training (FAT)	17-04-2023	Kuchaman	Anurag Bagherwal	06
13.	First Aid Training (FAT)	22-04-2023	Kuchaman	Anurag Bagherwal	07
14.	Contractor Workmen Training (CWT)	26-04-2023	Kuchaman	Anurag Bagherwal	11
15.	EHS ALERT (#10,#11,#12)	26-04-2023	Kuchaman	Anurag Bagherwal	06
16.	Site Specific Training (SST)	26-04-2023	Kuchaman	Anurag Bagherwal	07
17.	Site Specific Training (SST)	26-04-2023	Kuchaman	Anurag Bagherwal	06
18.	Contractor Workmen Training (CWT)	26-04-2023	Kuchaman	Anurag Bagherwal	11
19.	Mock Drill	07-04-2023	Kuchaman	Anurag Bagherwal	08
20.	Mock Drill	07-04-2023	Kuchaman	Anurag Bagherwal	11
21.	Mock Drill	11-04-2023	Kuchaman	Anurag Bagherwal	10
22.	Site Specific Training (SST)	03-05-2023	Kuchaman	Anurag Bagherwal	06
23.	EHS Alert	03-05-2023	Kuchaman	Anurag Bagherwal	07
24.	Contractor Workmen Training (CWT)	04-05-2023	Kuchaman	Anurag Bagherwal	06
25.	First Aid Training (FAT)	04-05-2023	Kuchaman	Anurag Bagherwal	06
26.	Site Specific Training (SST)	04-05-2023	Kuchaman	Anurag Bagherwal	07
27.	First Aid Training (FAT)	08-05-2023	Kuchaman	Anurag Bagherwal	07
28.	Contractor Workmen Training (CWT)	08-05-2023	Kuchaman	Anurag Bagherwal	11
29.	Site Specific Training (SST)	10-05-2023	Kuchaman	Anurag Bagherwal	06
30.	EHS Alert (#10,#11,#12)	10-05-2023	Kuchaman	Anurag Bagherwal	05
31.	First Aid Training (FAT)	11-05-2023	Kuchaman	Anurag Bagherwal	04
32.	Site Specific Training (SST)	11-05-2023	Kuchaman	Anurag Bagherwal	07
33.	Contractor Workmen Training (CWT)	11-05-2023	Kuchaman	Anurag Bagherwal	04
34.	First Aid Training (FAT)	12-05-2023	Kuchaman	Anurag Bagherwal	04
35.	Contractor Workmen Training (CWT)	12-05-2023	Kuchaman	Anurag Bagherwal	05
36.	EHS Alert (#10,#11,#12)	12-05-2023	Kuchaman	Anurag Bagherwal	04
37.	Site Specific Training (SST)	13-05-2023	Kuchaman	Anurag Bagherwal	08
38.	Contractor Workmen Training (CWT)	13-05-2023	Kuchaman	Anurag Bagherwal	08

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
39.	Site Specific Training (SST)	13-05-2023	Kuchaman	Anurag Bagherwal	08
40.	Site Specific Training (SST)	16-05-2023	Kuchaman	Anurag Bagherwal	08
41.	Site Specific Training (SST)	16-05-2023	Kuchaman	Anurag Bagherwal	06
42.	Contractor Workmen Training (CWT)	20-05-2023	Kuchaman	Anurag Bagherwal	09
43.	Contractor Workmen Training (CWT)	24-05-2023	Kuchaman	Anurag Bagherwal	12
44.	Site Specific Training (SST)	25-05-2023	Kuchaman	Anurag Bagherwal	05
45.	Mock Drill (Electrocution)	04-05-2023	Kuchaman	Anurag Bagherwal	07
46.	Fire Drill	08-05-2023	Kuchaman	Anurag Bagherwal	10
47.	Mock Drill (Hit By Vehicle)	11-05-2023	Kuchaman	Anurag Bagherwal	08
48.	Contractor Workmen Training (CWT)	02-06-2023	Kuchaman	Anurag Bagherwal	07
49.	First Aid Training (FAT)	02-06-2023	Kuchaman	Anurag Bagherwal	07
50.	First Aid Training (FAT)	03-06-2023	Kuchaman	Anurag Bagherwal	06
51.	Contractor Workmen Training (CWT)	05-06-2023	Kuchaman	Anurag Bagherwal	05
52.	First Aid Training (FAT)	05-06-2023	Kuchaman	Anurag Bagherwal	05
53.	EHS Alert	08-06-2023	Kuchaman	Anurag Bagherwal	17
54.	Site Specific Training (SST)	09-06-2023	Kuchaman	Anurag Bagherwal	12
55.	Contractor Workmen Training (CWT)	09-06-2023	Kuchaman	Anurag Bagherwal	06
56.	Site Specific Training (SST)	15-06-2023	Kuchaman	Anurag Bagherwal	09
57.	Contractor Workmen Training (CWT)	17-06-2023	Kuchaman	Anurag Bagherwal	04
58.	First Aid Training (FAT)	17-06-2023	Kuchaman	Anurag Bagherwal	08
59.	Contractor Workmen Training (CWT)	19-06-2023	Kuchaman	Anurag Bagherwal	05
60.	Contractor Workmen Training (CWT)	20-06-2023	Kuchaman	Anurag Bagherwal	08
61.	Contractor Workmen Training (CWT)	22-06-2023	Kuchaman	Anurag Bagherwal	05
62.	Site Specific Training (SST)	22-06-2023	Kuchaman	Anurag Bagherwal	12
63.	Site Specific Training (SST)	23-06-2023	Kuchaman	Anurag Bagherwal	06
64.	Site Specific Training (SST)	23-06-2023	Kuchaman	Anurag Bagherwal	09
65.	Contractor Workmen Training (CWT)	28-06-2023	Kuchaman	Anurag Bagherwal	07
66.	Mock Drill (Hit By Vehicle)	09-06-2023	Kuchaman	Anurag Bagherwal	08
67.	Mock Drill (Snake Bite)	07-06-2023	Kuchaman	Anurag Bagherwal	12
68.	Mock Drill (Electrocution)	08-06-2023	Kuchaman	Anurag Bagherwal	14
69.	Contractor Workmen Training (CWT)	04-07-2023	Kuchaman	Anurag Bagherwal	05
70.	First Aid Training (FAT)	04-07-2023	Kuchaman	Anurag Bagherwal	05
71.	First Aid Training (FAT)	08-07-2023	Kuchaman	Anurag Bagherwal	06
72.	Site Specific Training (SST)	06-07-2023	Kuchaman	Anurag Bagherwal	08
73.	Contractor Workmen Training (CWT)	07-07-2023	Kuchaman	Anurag Bagherwal	07
74.	Site Specific Training (SST)	08-07-2023	Kuchaman	Anurag Bagherwal	7
75.	Contractor Workmen Training (CWT)	08-07-2023	Kuchaman	Anurag Bagherwal	12
76.	Contractor Workmen Training (CWT)	08-07-2023	Kuchaman	Anurag Bagherwal	9
77.	First Aid Training (FAT)	18-07-2023	Kuchaman	Anurag Bagherwal	03
78.	Site Specific Training (SST)	20-07-2023	Kuchaman	Anurag Bagherwal	10
79.	Site Specific Training (SST)	20-07-2023	Kuchaman	Anurag Bagherwal	08
80.	Site Specific Training (SST)	21-07-2023	Kuchaman	Anurag Bagherwal	06
81.	Site Specific Training (SST)	21-07-2023	Kuchaman	Anurag Bagherwal	06
82.	EHS Alert	21-07-2023	Kuchaman	Anurag Bagherwal	08
83.	Site Specific Training (SST)	21-07-2023	Kuchaman	Anurag Bagherwal	06
84.	EHS ALERT	21-07-2023	Kuchaman	Anurag Bagherwal	05

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
85.	Contractor Workmen Training (CWT)	24-07-2023	Kuchaman	Anurag Bagherwal	07
86.	First Aid Training (FAT)	24-07-2023	Kuchaman	Anurag Bagherwal	04
87.	First Aid Training (FAT)	25-07-2023	Kuchaman	Anurag Bagherwal	11
88.	Contractor Workmen Training (CWT)	25-07-2023	Kuchaman	Anurag Bagherwal	11
89.	Site Specific Training (SST)	26-07-2023	Kuchaman	Anurag Bagherwal	08
90.	Contractor Workmen Training (CWT)	01.08.2023	Kuchaman	Anurag Bagherwal	10
91.	Contractor Workmen Training (CWT)	02.08.2023	Kuchaman	Anurag Bagherwal	06
92.	Site Specific Training (SST)	02.08.2023	Kuchaman	Anurag Bagherwal	7
93.	Site Specific Training (SST)	02.08.2023	Kuchaman	Anurag Bagherwal	06
94.	Site Specific Training (SST)	04.08.2023	Kuchaman	Anurag Bagherwal	10
95.	Contractor Workmen Training (CWT)	07.08.2023	Kuchaman	Anurag Bagherwal	06
96.	EHS Alert	07.08.2023	Kuchaman	Anurag Bagherwal	11
97.	First Aid Training (FAT)	07.08.2023	Kuchaman	Anurag Bagherwal	04
98.	Site Specific Training (SST)	07.08.2023	Kuchaman	Anurag Bagherwal	07
99.	Site Specific Training (SST)	07.08.2023	Kuchaman	Anurag Bagherwal	09
100.	Contractor Workmen Training (CWT)	08.08.2023	Kuchaman	Anurag Bagherwal	09
101.	First Aid Training (FAT)	08.08.2023	Kuchaman	Anurag Bagherwal	06
102.	Site Specific Training (SST)	09.08.2023	Kuchaman	Anurag Bagherwal	11
103.	Contractor Workmen Training (CWT)	10.08.2023	Kuchaman	Anurag Bagherwal	05
104.	Site Specific Training (SST)	10.08.2023	Kuchaman	Anurag Bagherwal	07
105.	EHS Alert	11.08.2023	Kuchaman	Anurag Bagherwal	11
106.	Site Specific Training (SST)	12.08.2023	Kuchaman	Anurag Bagherwal	12
107.	First Aid Training (FAT)	16.08.2023	Kuchaman	Anurag Bagherwal	07
108.	Contractor Workmen Training (CWT)	17.08.2023	Kuchaman	Anurag Bagherwal	04
109.	First Aid Training (FAT)	17.08.2023	Kuchaman	Anurag Bagherwal	04
110.	Site Specific Training (SST)	19.08.2023	Kuchaman	Anurag Bagherwal	15
111.	Site Specific Training (SST)	19.08.2023	Kuchaman	Anurag Bagherwal	26
112.	Mock Drill (Electrocution)	04.08.2023	Kuchaman	Anurag Bagherwal	10
113.	Mock Drill (Snake Bite)	04.08.2023	Kuchaman	Anurag Bagherwal	06
114.	Mock Drill (Snake Bite)	11.08.2023	Kuchaman	Anurag Bagherwal	06
115.	Mock Drill (Hit By Vehicle)	12.08.2023	Kuchaman	Anurag Bagherwal	07
116.	Contractor Workmen Training (CWT)	07.09.2023	Kuchaman	Anurag Bagherwal	7
117.	First Aid Training (FAT)	07.09.2023	Kuchaman	Anurag Bagherwal	07
118.	Contractor Workmen Training (CWT)	09.09.2023	Kuchaman	Anurag Bagherwal	5
119.	First Aid Training (FAT)	09.09.2023	Kuchaman	Anurag Bagherwal	05
120.	Site Specific Training (SST)	12.09.2023	Kuchaman	Anurag Bagherwal	06
121.	Site Specific Training (SST)	12.09.2023	Kuchaman	Anurag Bagherwal	12
122.	Site Specific Training (SST)	12.09.2023	Kuchaman	Anurag Bagherwal	05
123.	First Aid Training (FAT)	12.09.2023	Kuchaman	Anurag Bagherwal	07
124.	Site Specific Training (SST)	12.09.2023	Kuchaman	Anurag Bagherwal	07
125.	Contractor Workmen Training (CWT)	12.09.2023	Kuchaman	Anurag Bagherwal	07
126.	EHS Alert	12.09.2023	Kuchaman	Anurag Bagherwal	07
127.	First Aid Training (FAT)	14.09.2023	Kuchaman	Anurag Bagherwal	04
128.	Contractor Workmen Training (CWT)	14.09.2023	Kuchaman	Anurag Bagherwal	04
129.	Site Specific Training (SST)	16.09.2023	Kuchaman	Anurag Bagherwal	09
130.	Site Specific Training (SST)	16.09.2023	Kuchaman	Anurag Bagherwal	07

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
131.	CWT	18.09.2023	Kuchaman	Anurag Bagherwal	06
132.	First Aid Training (FAT)	18.09.2023	Kuchaman	Anurag Bagherwal	06
133.	Contractor Workmen Training (CWT)	19.09.2023	Kuchaman	Anurag Bagherwal	11
134.	Site Specific Training (SST)	20.09.2023	Kuchaman	Anurag Bagherwal	08
135.	Contractor Workmen Training (CWT)	20.09.2023	Kuchaman	Anurag Bagherwal	04
136.	Contractor Workmen Training (CWT)	21.09.2023	Kuchaman	Anurag Bagherwal	08
137.	Contractor Workmen Training (CWT)	23.09.2023	Kuchaman	Anurag Bagherwal	04
138.	Site Specific Training (SST)	25.09.2023	Kuchaman	Anurag Bagherwal	06
139.	Mock Drill (Hit By Vehicle)	07.09.2023	Kuchaman	Anurag Bagherwal	08
140.	Mock Drill (Snake Bite)	20.09.2023	Kuchaman	Anurag Bagherwal	06
141.	Mock Drill (Electrocution)	20.09.2023	Kuchaman	Anurag Bagherwal	07
Didwana Town					
1.	CWT 01	10.04.2023	Didwana	Jeevan & Mehruddin	7
2.	CWT 02	24.04.2023	Didwana	Jeevan & Mehruddin	2
3.	SST 01	03.04.2023	Didwana	Jeevan & Mehruddin	15
4.	SST 02	11.04.2023	Didwana	Jeevan & Mehruddin	6
5.	SST 03	12.04.2023	Didwana	Jeevan & Mehruddin	7
6.	EHS Alert 01	14.04.2023	Didwana	Jeevan & Mehruddin	5
7.	EHS Alert 02	07.04.2023	Didwana	Jeevan & Mehruddin	6
8.	EHS Alert 03	11.04.2023	Didwana	Jeevan & Mehruddin	5
9.	EHS Alert 04	28.04.2023	Didwana	Jeevan & Mehruddin	13
10.	Mock drill 01	17.04.2023	Didwana	Jeevan & Mehruddin	7
11.	Mock drill 02	27.04.2023	Didwana	Jeevan & Mehruddin	5
12.	CWT 01	08.05.2023	Didwana	Jeevan & Mehruddin	20
13.	CWT 02	10.05.2023	Didwana	Jeevan & Mehruddin	40
14.	SST 01	03.05.2023	Didwana	Jeevan & Mehruddin	18
15.	SST 02	09.05.2023	Didwana	Jeevan & Mehruddin	18
16.	SST 03	11.05.2023	Didwana	Jeevan & Mehruddin	16
17.	SST 03	17.05.2023	Didwana	Jeevan & Mehruddin	50
18.	EHS Alert 01	06.05.2023	Didwana	Jeevan & Mehruddin	4
19.	EHS Alert 02	22.05.2023	Didwana	Jeevan & Mehruddin	8
20.	Induction - 01	18.05.2023	Didwana	Jeevan & Mehruddin	10
21.	Induction - 02	19.05.2023	Didwana	Jeevan & Mehruddin	0
22.	Mock Drill - 1	22.05.2023	Didwana	Jeevan & Mehruddin	5
23.	Mock Drill - 2	24.05.2023	Didwana	Jeevan & Mehruddin	8
24.	CWT	24.05.2023	Didwana	Jeevan & Mehruddin	5
25.	EHS Alert Training	24.05.2023	Didwana	Jeevan & Mehruddin	6
26.	CWT - 01	06/04/2023	Didwana	Jeevan & Mehruddin	44
27.	CWT -02	06/19/2023	Didwana	Jeevan & Mehruddin	24
28.	SST - 01	06/06/2023	Didwana	Jeevan & Mehruddin	14
29.	SST - 02	06/08/2023	Didwana	Jeevan & Mehruddin	16
30.	SST - 03	06/22/2023	Didwana	Jeevan & Mehruddin	0
31.	SST - 04	06/26/2023	Didwana	Jeevan & Mehruddin	12
32.	EHS ALERT 1	06/15/2023	Didwana	Jeevan & Mehruddin	13
33.	Induction - 01	06/08/2023	Didwana	Jeevan & Mehruddin	5
34.	Induction - 02	06/16/2023	Didwana	Jeevan & Mehruddin	6
35.	Mock Drill - 1	06/09/2023	Didwana	Jeevan & Mehruddin	6

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
36.	Mock Drill - 2	06/23/2023	Didwana	Jeevan & Mehruddin	13
37.	Induction - 02	07/17/2023	Didwana	Jeevan & Mehruddin	11
38.	EHS ALERT 1	07/07/2023	Didwana	Jeevan & Mehruddin	12
39.	EHS ALERT 2	07/08/2023	Didwana	Jeevan & Mehruddin	6
40.	EHS ALERT 3	07/22/2023	Didwana	Jeevan & Mehruddin	6
41.	SST - 01	07/03/2023	Didwana	Jeevan & Mehruddin	28
42.	SST - 02	07/14/2023	Didwana	Jeevan & Mehruddin	12
43.	SST - 03	07/10/2023	Didwana	Jeevan & Mehruddin	20
44.	CWT - 01	07/17/2023	Didwana	Jeevan & Mehruddin	44
45.	CWT -02	07/24/2023	Didwana	Jeevan & Mehruddin	52
46.	Mock Drill - 1	07/10/2023	Didwana	Jeevan & Mehruddin	12
47.	Mock Drill - 2	07/21/2023	Didwana	Jeevan & Mehruddin	6
48.	Induction - 01	08/21/2023	Didwana	Jeevan & Mehruddin	6
49.	SST - 01	08/07/2023	Didwana	Jeevan & Mehruddin	22
50.	SST - 02	08/18/2023	Didwana	Jeevan & Mehruddin	38
51.	SST - 03	08/06/2023	Didwana	Jeevan & Mehruddin	12
52.	CWT - 01	08/14/2023	Didwana	Jeevan & Mehruddin	24
53.	CWT -02	08/25/2023	Didwana	Jeevan & Mehruddin	44
54.	Mock Drill - 1	08/11/2023	Didwana	Jeevan & Mehruddin	16
55.	Mock Drill - 2	08/24/2023	Didwana	Jeevan & Mehruddin	6
56.	SST - 01	09/20/2023	Didwana	Jeevan & Mehruddin	0
57.	SST - 02	09/11/2023	Didwana	Jeevan & Mehruddin	10
58.	SST - 03	09/22/2023	Didwana	Jeevan & Mehruddin	20
59.	SST - 04	09/25/2023	Didwana	Jeevan & Mehruddin	18
60.	CWT - 01	09/11/2023	Didwana	Jeevan & Mehruddin	12
61.	CWT -02	09/25/2023	Didwana	Jeevan & Mehruddin	40
62.	Mock Drill - 1	09/08/2023	Didwana	Jeevan & Mehruddin	6
63.	Mock Drill - 2	09/06/2023	Didwana	Jeevan & Mehruddin	6
64.	EHS Alert -01	09/04/2023	Didwana	Jeevan & Mehruddin	7
65.	EHS Alert -02	09/07/2023	Didwana	Jeevan & Mehruddin	6
66.	EHS Alert -03	09/22/2023	Didwana	Jeevan & Mehruddin	5
Ladnu Town					
1.	Induction 01	13.04.2023	Ladnu	Jeevan & Abhishek	5
2.	Induction 02	14.04.2023	Ladnu	Jeevan & Abhishek	6
3.	Induction 03	25.04.2023	Ladnu	Jeevan & Abhishek	5
4.	EHS Alert 01	08.04.2023	Ladnu	Jeevan & Abhishek	5
5.	EHS Alert 02	09.04.2023	Ladnu	Jeevan & Abhishek	5
6.	SST 01	13.04.2023	Ladnu	Jeevan & Abhishek	6
7.	SST 02	25.04.2023	Ladnu	Jeevan & Abhishek	5
8.	CWT 01	14.04.2023	Ladnu	Jeevan & Abhishek	5
9.	CWT 02	24.04.2023	Ladnu	Jeevan & Abhishek	5
10.	Mock drill 01	17.04.2023	Ladnu	Jeevan & Abhishek	18
11.	Mock drill 02	18.04.2023	Ladnu	Jeevan & Abhishek	5
12.	Induction-01	03.05.2023	Ladnu	Jeevan & Abhishek	1
13.	Induction-02	24.05.2023	Ladnu	Jeevan & Abhishek	3
14.	Induction -03	25.05.2023	Ladnu	Jeevan & Abhishek	8
15.	Induction-04	26.05.2023	Ladnu	Jeevan & Abhishek	9
16.	Induction-05	29.05.2023	Ladnu	Jeevan & Abhishek	9

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
17.	Induction -06	30.05.2023	Ladnu	Jeevan & Abhishek	6
18.	EHS Alert 01	08.05.2023	Ladnu	Jeevan & Abhishek	5
19.	EHS Alert 02	08.05.2023	Ladnu	Jeevan & Abhishek	4
20.	EHS Alert 03	09.05.2023	Ladnu	Jeevan & Abhishek	4
21.	SST 01	26.05.2023	Ladnu	Jeevan & Abhishek	16
22.	SST 02	29.05.2023	Ladnu	Jeevan & Abhishek	18
23.	SST 03	30.05.2023	Ladnu	Jeevan & Abhishek	0
24.	OJT 01	27.05.2023	Ladnu	Jeevan & Abhishek	7
25.	CWT 01	27.05.2023	Ladnu	Jeevan & Abhishek	36
26.	CWT 02	30.05.2023	Ladnu	Jeevan & Abhishek	24
27.	Mock drill 01	18.05.2023	Ladnu	Jeevan & Abhishek	10
28.	Mock drill 02	18.05.2023	Ladnu	Jeevan & Abhishek	6
29.	Induction - 01	06/24/2023	Ladnu	Jeevan & Abhishek	5
30.	Induction - 02	06/26/2023	Ladnu	Jeevan & Abhishek	8
31.	Induction - 03	06/27/2023	Ladnu	Jeevan & Abhishek	6
32.	Induction -04	06/08/2023	Ladnu	Jeevan & Abhishek	8
33.	Induction -05	06/09/2023	Ladnu	Jeevan & Abhishek	2
34.	SST-01	06/21/2023	Ladnu	Jeevan & Abhishek	30
35.	SST-02	06/21/2023	Ladnu	Jeevan & Abhishek	18
36.	SST-03	06/23/2023	Ladnu	Jeevan & Abhishek	6
37.	SST-04	06/28/2023	Ladnu	Jeevan & Abhishek	14
38.	EHS ALART-1	06/09/2023	Ladnu	Jeevan & Abhishek	4
39.	EHS ALART-2	06/09/2023	Ladnu	Jeevan & Abhishek	4
40.	CWT - 01	06/24/2023	Ladnu	Jeevan & Abhishek	20
41.	CWT - 02	06/26/2023	Ladnu	Jeevan & Abhishek	32
42.	CWT - 03	06/27/2023	Ladnu	Jeevan & Abhishek	24
43.	Mock Drill - 23	06/13/2023	Ladnu	Jeevan & Abhishek	5
44.	Mock Drill - 24	06/13/2023	Ladnu	Jeevan & Abhishek	14
45.	Induction - 01	07/20/2023	Ladnu	Jeevan & Abhishek	6
46.	Induction - 02	07/21/2023	Ladnu	Jeevan & Abhishek	7
47.	Induction - 03	07/21/2023	Ladnu	Jeevan & Abhishek	5
48.	SST-01	07/20/2023	Ladnu	Jeevan & Abhishek	12
49.	SST-02	07/21/2023	Ladnu	Jeevan & Abhishek	12
50.	SST-03	07/25/2023	Ladnu	Jeevan & Abhishek	14
51.	EHS ALART-1	07/04/2023	Ladnu	Jeevan & Abhishek	4
52.	EHS ALART-2	07/04/2023	Ladnu	Jeevan & Abhishek	4
53.	CWT - 01	07/20/2023	Ladnu	Jeevan & Abhishek	24
54.	CWT - 02	07/21/2023	Ladnu	Jeevan & Abhishek	24
55.	CWT - 03	07/26/2023	Ladnu	Jeevan & Abhishek	52
56.	Mock Drill - 37	07/21/2023	Ladnu	Jeevan & Abhishek	26
57.	Mock Drill - 38	07/21/2023	Ladnu	Jeevan & Abhishek	6
58.	Induction - 01	08/04/2023	Ladnu	Jeevan & Abhishek	5
59.	Induction - 02	08/10/2023	Ladnu	Jeevan & Abhishek	3
60.	Induction - 03	08/26/2023	Ladnu	Jeevan & Abhishek	8
61.	EHS Alert	08/16/2023	Ladnu	Jeevan & Abhishek	4
62.	EHS Alert	08/16/2023	Ladnu	Jeevan & Abhishek	4
63.	SST - 01	08/21/2023	Ladnu	Jeevan & Abhishek	28
64.	SST - 02	08/23/2023	Ladnu	Jeevan & Abhishek	8

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
65.	SST - 03	08/26/2023	Ladnu	Jeevan & Abhishek	8
66.	SST - 04	08/21/2023	Ladnu	Jeevan & Abhishek	24
67.	CWT-01	08/26/2023	Ladnu	Jeevan & Abhishek	16
68.	CWT-02	08/25/2023	Ladnu	Jeevan & Abhishek	32
69.	CWT-03	08/04/2023	Ladnu	Jeevan & Abhishek	20
70.	Mock Drill - 39	08/21/2023	Ladnu	Jeevan & Abhishek	4
71.	Mock Drill - 40	08/21/2023	Ladnu	Jeevan & Abhishek	16
72.	Induction-01	09/16/2023	Ladnu	Jeevan & Abhishek	9
73.	Induction-02	09/21/2023	Ladnu	Jeevan & Abhishek	6
74.	Induction -03	09/21/2023	Ladnu	Jeevan & Abhishek	8
75.	SST - 01	09/15/2023	Ladnu	Jeevan & Abhishek	10
76.	SST - 02	09/20/2023	Ladnu	Jeevan & Abhishek	12
77.	SST - 03	09/20/2023	Ladnu	Jeevan & Abhishek	10
78.	SST - 04	09/21/2023	Ladnu	Jeevan & Abhishek	16
79.	CWT - 01	09/14/2023	Ladnu	Jeevan & Abhishek	20
80.	CWT -02	09/18/2023	Ladnu	Jeevan & Abhishek	36
81.	CWT-03	09/19/2023	Ladnu	Jeevan & Abhishek	0
82.	CWT-04	09/21/2023	Ladnu	Jeevan & Abhishek	24
83.	CWT-05	09/21/2023	Ladnu	Jeevan & Abhishek	60
84.	EHS Alert -01	09/14/2023	Ladnu	Jeevan & Abhishek	4
85.	EHS Alert -02	09/23/2023	Ladnu	Jeevan & Abhishek	6
86.	Mock Drill-01	09/09/2023	Ladnu	Jeevan & Abhishek	13
87.	Mock Drill-02	09/09/2023	Ladnu	Jeevan & Abhishek	7
Makrana Town					
1.	EHS Alert 01	05.04.2023	Makrana	Jeevan Kumar	10
2.	EHS Alert 02	20.04.2023	Makrana	Jeevan Kumar	5
3.	EHS Alert 03	28.04.2023	Makrana	Jeevan Kumar	7
4.	SST 01	12.04.2023	Makrana	Jeevan Kumar	8
5.	SST 02	13.04.2023	Makrana	Jeevan Kumar	13
6.	CWT 01	24.04.2023	Makrana	Jeevan Kumar	5
7.	CWT 02	25.04.2023	Makrana	Jeevan Kumar	4
8.	Induction 01	19.04.2023	Makrana	Jeevan Kumar	6
9.	Induction 02	21.04.2023	Makrana	Jeevan Kumar	5
10.	Induction 03	28.04.2023	Makrana	Jeevan Kumar	7
11.	Mock drill 01	04.04.2023	Makrana	Jeevan Kumar	28
12.	Induction Training 01	02.05.2023	Makrana	Jeevan Kumar	8
13.	Induction Training 02	20.05.2023	Makrana	Jeevan Kumar	1
14.	Induction Training 03	22.05.2023	Makrana	Jeevan Kumar	1
15.	Induction Training 04	24.05.2023	Makrana	Jeevan Kumar	8
16.	Induction Training 05	25.05.2023	Makrana	Jeevan Kumar	5
17.	SST 01	22.05.2023	Makrana	Jeevan Kumar	10
18.	SST 02	22.05.2023	Makrana	Jeevan Kumar	32
19.	SST 03	30.05.2023	Makrana	Jeevan Kumar	28
20.	OJT 01	27.05.2023	Makrana	Jeevan Kumar	7
21.	CWT 01	24.05.2023	Makrana	Jeevan Kumar	24
22.	CWT 02	30.05.2023	Makrana	Jeevan Kumar	48
23.	Mock Drill 23	23.05.2023	Makrana	Jeevan Kumar	12
24.	Mock Drill 24	18.05.2023	Makrana	Jeevan Kumar	2

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
25.	Induction - 01	06/02/2023	Makrana	Jeevan Kumar	4
26.	Induction - 02	05/02/2023	Makrana	Jeevan Kumar	4
27.	Induction - 03	06/06/2023	Makrana	Jeevan Kumar	3
28.	Induction - 04	06/09/2023	Makrana	Jeevan Kumar	4
29.	Induction-05	06/12/2023	Makrana	Jeevan Kumar	1
30.	Induction-06	06/14/2023	Makrana	Jeevan Kumar	2
31.	Induction-07	06/15/2023	Makrana	Jeevan Kumar	8
32.	Induction-08	06/15/2023	Makrana	Jeevan Kumar	1
33.	Induction-09	06/17/2023	Makrana	Jeevan Kumar	3
34.	Induction-10	06/19/2023	Makrana	Jeevan Kumar	6
35.	Induction-11	06/20/2023	Makrana	Jeevan Kumar	5
36.	Induction-12	06/22/2023	Makrana	Jeevan Kumar	3
37.	Induction-13	06/23/2023	Makrana	Jeevan Kumar	5
38.	Induction-14	06/24/2023	Makrana	Jeevan Kumar	6
39.	SST-01	06/01/2023	Makrana	Jeevan Kumar	10
40.	SST - 02	06/01/2023	Makrana	Jeevan Kumar	6
41.	SST - 03	06/07/2023	Makrana	Jeevan Kumar	14
42.	SST - 04	06/10/2023	Makrana	Jeevan Kumar	22
43.	SST-05	06/14/2023	Makrana	Jeevan Kumar	10
44.	SST-06	06/20/2023	Makrana	Jeevan Kumar	10
45.	CWT-01	06/02/2023	Makrana	Jeevan Kumar	16
46.	CWT-02	06/05/2023	Makrana	Jeevan Kumar	16
47.	CWT - 03	06/06/2023	Makrana	Jeevan Kumar	12
48.	CWT -04	06/09/2023	Makrana	Jeevan Kumar	16
49.	CWT-05	06/15/2023	Makrana	Jeevan Kumar	24
50.	CWT-06	06/17/2023	Makrana	Jeevan Kumar	12
51.	CWT-07	06/19/2023	Makrana	Jeevan Kumar	24
52.	CWT-08	06/20/2023	Makrana	Jeevan Kumar	20
53.	CWT-09	06/22/2023	Makrana	Jeevan Kumar	12
54.	CWT-10	06/23/2023	Makrana	Jeevan Kumar	20
55.	CWT-11	06/24/2023	Makrana	Jeevan Kumar	24
56.	EHS Alert-1	06/08/2023	Makrana	Jeevan Kumar	5
57.	EHS Alert-02	06/14/2023	Makrana	Jeevan Kumar	9
58.	Mock Drill - 01	06/08/2023	Makrana	Jeevan Kumar	19
59.	Mock Drill - 02	06/20/2023	Makrana	Jeevan Kumar	8
60.	Induction - 01	04/07/2023	Makrana	Jeevan Kumar	3
61.	Induction - 02	05/07/2023	Makrana	Jeevan Kumar	6
62.	Induction - 03	06/07/2023	Makrana	Jeevan Kumar	5
63.	Induction - 04	11/07/2023	Makrana	Jeevan Kumar	6
64.	Induction-05	12/07/2023	Makrana	Jeevan Kumar	4
65.	Induction-06	26/7/2023	Makrana	Jeevan Kumar	5
66.	Induction-07	28/7/2023	Makrana	Jeevan Kumar	4
67.	SST-01	04/07/2023	Makrana	Jeevan Kumar	10
68.	SST - 02	15/7/2023	Makrana	Jeevan Kumar	16
69.	SST - 03	19/7/2023	Makrana	Jeevan Kumar	18
70.	SST - 04	19/7/2023	Makrana	Jeevan Kumar	10
71.	SST-05	20/7/2023	Makrana	Jeevan Kumar	24
72.	CWT-01	05/07/2023	Makrana	Jeevan Kumar	24

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
73.	CWT-02	06/07/2023	Makrana	Jeevan Kumar	20
74.	CWT - 03	11/07/2023	Makrana	Jeevan Kumar	24
75.	CWT -04	12/07/2023	Makrana	Jeevan Kumar	16
76.	CWT-05	26/7/2023	Makrana	Jeevan Kumar	20
77.	CWT-06	28/7/2023	Makrana	Jeevan Kumar	16
78.	EHS Alert-1	19/7/2023	Makrana	Jeevan Kumar	9
79.	EHS Alert-02	22/7/2023	Makrana	Jeevan Kumar	5
80.	Mock Drill - 01	15/7/2023	Makrana	Jeevan Kumar	8
81.	Mock Drill - 02	21/7/2023	Makrana	Jeevan Kumar	6
82.	Induction-01	09/08/2023	Makrana	Jeevan Kumar	3
83.	Induction-02	09/13/2023	Makrana	Jeevan Kumar	8
84.	Induction-03	09/15/2023	Makrana	Jeevan Kumar	10
85.	Induction-04	09/18/2023	Makrana	Jeevan Kumar	11
86.	Induction-05	09/22/2023	Makrana	Jeevan Kumar	1
87.	Induction-06	09/26/2023	Makrana	Jeevan Kumar	4
88.	SST - 01	09/05/2023	Makrana	Jeevan Kumar	34
89.	SST - 02	09/06/2023	Makrana	Jeevan Kumar	10
90.	SST - 03	09/08/2023	Makrana	Jeevan Kumar	14
91.	SST - 04	09/19/2023	Makrana	Jeevan Kumar	6
92.	SST-05	09/20/2023	Makrana	Jeevan Kumar	10
93.	SST-06	09/20/2023	Makrana	Jeevan Kumar	0
94.	SST-07	09/20/2023	Makrana	Jeevan Kumar	32
95.	SST-08	09/21/2023	Makrana	Jeevan Kumar	4
96.	SST-09	09/21/2023	Makrana	Jeevan Kumar	8
97.	SST-10	09/21/2023	Makrana	Jeevan Kumar	24
98.	CWT - 01	09/08/2023	Makrana	Jeevan Kumar	12
99.	CWT -02	09/13/2023	Makrana	Jeevan Kumar	32
100.	CWT-03	09/15/2023	Makrana	Jeevan Kumar	40
101.	CWT-04	09/18/2023	Makrana	Jeevan Kumar	44
102.	CWT-05	09/26/2023	Makrana	Jeevan Kumar	12
103.	Mock Drill - 1	09/12/2023	Makrana	Jeevan Kumar	13
104.	Mock Drill - 2	09/22/2023	Makrana	Jeevan Kumar	4
105.	EHS Alert -01	09/15/2023	Makrana	Jeevan Kumar	5
106.	EHS Alert -02	09/22/2023	Makrana	Jeevan Kumar	5
Mandawa Town					
1.	Work at height training	16-04-2023	STP	Manoj	05
2.	Electrical work safety training	17-04-2023	SPS	Manoj	04
3.	Electrical work safety training	11-05-2023	STP	Manoj	06
4.	Work at height safety training	21-05-2023	SPS	Manoj	05
5.	Excavation Work safety training	17-06-2023	Bissau Rd	Manoj	06
6.	Work at height safety training	29-06-2023	STP	Manoj	09
7.	Work at height safety training	13-07-2023	STP	Manoj	08
8.	Excavation Work safety training	24-07-2023	Bissau Rd	Manoj	05
9.	Work at height safety training	17-08-2023	STP	Manoj	15
10.	Fire Training	19-08-2023	Office	Manoj	20
11.	Work at height safety training	13-09-2023	STP	Manoj	07
12.	Electrical Safety Training	24-09-2023	SPS	Manoj	04
Khetri Town					

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
1.	Drinking Water	04-04-2023	Ward 25	L.Narayan/ R.kapoor	05
2.	Noise Pollution	08-04-2023	Ward 25	L.Narayan/ R.kapoor	06
3.	Handling of Hazardous Waste	11-04-2023	Ward 25	L.Narayan/ R.kapoor	05
4.	World day for Safety & Health at work	18/04/2023	Ward 24	L.Narayan/ R.kapoor	08
5.	Causes of water Pollution	20/04/2023	STP	L.Narayan/ R.kapoor	10
6.	Earth Day	21/04/2023	Ward 13	L.Narayan/ R.kapoor	07
7.	First Aid	28/04/2023	AEn campus	L.Narayan/ R.kapoor	03
8.	Hazardous Air Pollutants	03-05-2023	STP	L.Narayan/ R.kapoor	04
9.	Renewable Energy	10-05-2023	J.En.Campus	L.Narayan/ R.kapoor	05
10.	Water Pollution Effects on Human Health	15-05-2023	STP	L.Narayan/ R.kapoor	06
11.	Waste Materials Handling and Storage	17/05/2023	STP	L.Narayan/ R.kapoor	04
12.	Storage of Hazardous Waste	19/05/2023	STP	L.Narayan/ R.kapoor	05
13.	HIV-AIDS Awareness	24/05/2023	AEn Campus	L.Narayan/ R.kapoor	05
14.	Tree Plantation	05-06-2023	STP	Raj Kapoor	06
15.	Concrete Safety Training	12-06-2023	Ward 12	Raj Kapoor	05
16.	Water Pollution Effects on Human Health	17-06-2023	STP	Raj Kapoor	09
17.	Excavation Safety Training	21-06-2023	Ward 13	Raj Kapoor	06
18.	Excavation Safety Training	24-06-2023	STP	Raj Kapoor	05
19.	HIV-AIDS Awareness	28-06-2023	STP	Raj Kapoor	05
20.	Excavation Safety Training	05-07-2023	Ward 4	Raj Kapoor	07
21.	Water Pollution Effects on Human Health	12-07-2023	Ward 12	Raj Kapoor	05
22.	Excavation Safety Training	17-07-2023	Special mohalla	Raj Kapoor	08
23.	Excavation Safety Training	21-07-2023	Valmiki mohalla	Raj Kapoor	06
24.	HIV-AIDS Awareness	24-07-2023	Maji shab ka bhag	Raj Kapoor	09
25.	Excavation Safety Training	04-08-2023	Ward 4	Raj Kapoor	06
26.	Safety Training	19-08-2023	STP	Raj Kapoor	07
27.	Safety Training	19-08-2023	PIU Office	Raj Kapoor	06
28.	HIV-AIDS Awareness	26-08-2023	Kheriya ki dhani	Raj Kapoor	08
29.	Excavation Safety Training	06-09-2023	Ward 4	Raj Kapoor	05
30.	HIV-AIDS Awareness	13-09-2023	STP	Yogesh/Raj Kapoor	20
31.	Safety Training	26-09-2023	PIU Office	Raj Kapoor	06
32.	Safety Training	30-09-2023	Kheriya ki dhani	Raj Kapoor	08
Abu Road Town					
1.	Contractor Workmen Training	03.04.2023	Manpur	Monuj Saikia	10
2.	Site Specific Training	03.04.2023	Manpur	Monuj Saikia	6
3.	Other Training	04.04.2023	Manpur	Monuj Saikia	5
4.	Contractor Workmen Training	05.04.2023	Manpur	Monuj Saikia	6
5.	Contractor Workmen Training	06.04.2023	Manpur	Monuj Saikia	8
6.	Other Training-Internal	06.04.2023	Manpur	Monuj Saikia	4
7.	Contractor Workmen Training	08.04.2023	Manpur	Monuj Saikia	7
8.	Other Training-Internal	08.04.2023	Manpur	Monuj Saikia	5
9.	Site Specific Training	08.04.2023	Manpur	Monuj Saikia	5
10.	Other Training-Internal	10.04.2023	Manpur	Monuj Saikia	4

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
11.	Site Specific Training	10.04.2023	Manpur	Monuj Saikia	4
12.	Site Specific Training	14.04.2023	Manpur	Monuj Saikia	4
13.	Site Specific Training	15.04.2023	Manpur	Monuj Saikia	4
14.	Site Specific Training	18.04.2023	Manpur	Monuj Saikia	5
15.	Other Training-Internal	19.04.2023	Manpur	Monuj Saikia	4
16.	Site Specific Training	19.04.2023	Manpur	Monuj Saikia	4
17.	Site Specific Training	21.04.2023	Manpur	Monuj Saikia	5
18.	Other Training-Internal	24.04.2023	Manpur	Monuj Saikia	4
19.	Site Specific Training	25.04.2023	Manpur	Monuj Saikia	5
20.	Site Specific Training	26.04.2023	Manpur	Monuj Saikia	9
21.	Contractor Workmen Training	02.05.2023	Manpur	Monuj Saikia	18
22.	Site Specific Training	03.05.2023	Manpur	Monuj Saikia	6
23.	Site Specific Training	06.05.2023	Santpur	Monuj Saikia	6
24.	Site Specific Training	15.05.2023	Manpur	Monuj Saikia	12
25.	Site Specific Training	17.05.2023	Manpur	Monuj Saikia	18
26.	Other Training	18.05.2023	Manpur	Monuj Saikia	6
27.	Site Specific Training	18.05.2023	Manpur	Monuj Saikia	15
28.	Contractor Workmen Training	19.05.2023	Manpur	Monuj Saikia	9
29.	Site Specific Training	01.06.2023	Manpur	Monuj Saikia	18
30.	Site Specific Training	08.06.2023	Manpur	Monuj Saikia	6
31.	Contractor Workmen Training	12.06.2023	Manpur	Monuj Saikia	6
32.	Site Specific Training	22.06.2023	Manpur	Monuj Saikia	12
33.	Contractor Workmen Training	04.07.2023	Manpur	Monuj Saikia	5
34.	Site Specific Training	04.07.2023	Manpur	Monuj Saikia	5
35.	Site Specific Training	06.07.2023	Manpur	Monuj Saikia	4
36.	Site Specific Training	14.07.2023	Manpur	Monuj Saikia	12
37.	Contractor Workmen Training	22.07.2023	Manpur	Monuj Saikia	5
38.	Site Specific Training	13.07.2023	Santpur	Monuj Saikia	7
39.	Other Training	22.08.2023	Manpur	Monuj Saikia	43
40.	Other Training	10.08.2023	Manpur	Monuj Saikia	4
41.	Other Training (OP)	23.08.2023	Manpur	Monuj Saikia	5
42.	Site Specific Training	29.08.2023	Manpur	Monuj Saikia	4
43.	Other Training	22.08.2023	Manpur	Monuj Saikia	5
44.	Contractor Workmen Training	04.09.2023	Manpur	Monuj Saikia	5
45.	Other Training	04.09.2023	Manpur	Monuj Saikia	5
46.	Site Specific Training	06.09.2023	Manpur	Monuj Saikia	5
47.	Contractor Workmen Training	11.09.2023	Manpur	Monuj Saikia	4
48.	Site Specific Training	11.09.2023	Manpur	Monuj Saikia	7
49.	OT (OCP-Electrical Safety)	12.09.2023	Manpur	Monuj Saikia	9
50.	OT (OCP-Material Handling Safety)	12.09.2023	Manpur	Monuj Saikia	8
51.	OT (OCP-Excavation Safety)	12.09.2023	Manpur	Monuj Saikia	3
52.	Site Specific Training	12.09.2023	Manpur	Monuj Saikia	4
53.	Site Specific Training	12.09.2023	Manpur	Monuj Saikia	6
Sirohi Town					
1.	Contractor Workmen Training	05/04/23	Sirohi	Satish	10
2.	Site Specific Training	05/04/23	Sirohi	Subhash	12
3.	Site Specific Training	10/04/23	Sirohi	Satish/Subhash	08
4.	Contractor Workmen Training	12/04/23	Sirohi	Satish/Subhash	11

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
5.	Contractor Workmen Training	13/04/23	Sirohi	Satish	15
6.	On Job Training	18/04/23	Sirohi	Subhash	08
7.	On Job Training	20/04/23	Sirohi	Subhash	09
8.	Site Specific Training	21/04/23	Sirohi	Satish/Subhash	07
9.	Site Specific Training	23/04/23	Sirohi	Satish/Subhash	10
10.	On Job Training	26/04/23	Sirohi	Subhash /Satish	12
11.	On Job Training	27/04/23	Sirohi	Satish	08
12.	On Job Training	28/04/23	Sirohi	Satish/Subhash	09
13.	Mock Drill	29/04/23	Sirohi	Subhash /Satish	07
14.	Mock Drill	30/04/23	Sirohi	Satish	08
15.	CWT Training	06/05/23	Sirohi	Satish/Subhash	20
16.	SST Training	06/05/23	Sirohi	Satish/Subhash	10
17.	SST Training	08/05/23	Sirohi	Satish	07
18.	CWT Training	10/05/23	Sirohi	Subhash	15
19.	CWT Training	15/05/23	Sirohi	Subhash	13
20.	On Job Training	17/05/23	Sirohi	Satish/Subhash	14
21.	On Job Training	18/05/23	Sirohi	Satish/Subhash	08
22.	SST Training	22/05/23	Sirohi	Subhash /Satish	08
23.	SST Training	23/05/23	Sirohi	Subhash	08
24.	SST Training	25/05/23	Sirohi	Satish/Subhash	09
25.	On Job Training	26/05/23	Sirohi	Satish/Subhash	07
26.	On Job Training	27/05/23	Sirohi	Subhash /Satish	09
27.	On Job Training	28/05/23	Sirohi	Satish/Subhash	07
28.	On Job Training	29/05/23	Sirohi	Satish	08
29.	CWT Training	03/06/23	Sirohi	Satish	22
30.	SST Training	07/06/23	Sirohi	Subhash	10
31.	SST Training	10/06/23	Sirohi	Subhash	09
32.	CWT Training	12/06/23	Sirohi	Satish/Subhash	15
33.	CWT Training	13/06/23	Sirohi	Satish/Subhash	17
34.	On Job Training	16/06/23	Sirohi	Subhash /Satish	08
35.	On Job Training	18/06/23	Sirohi	Subhash	09
36.	SST Training	21/06/23	Sirohi	Satish/Subhash	10
37.	SST Training	23/06/23	Sirohi	Satish/Subhash	07
38.	SST Training	24/06/23	Sirohi	Satish	08
39.	On Job Training	25/06/23	Sirohi	Subhash	09
40.	On Job Training	28/06/23	Sirohi	Subhash /Satish	10
41.	On Job Training	29/06/23	Sirohi	Satish/Subhash	11
42.	On Job Training	29/06/23	Sirohi	Satish	06
43.	CWT Training	02/07/23	Sirohi	Subhash	17
44.	SST Training	06/07/23	Sirohi	Satish/Subhash	8
45.	SST Training	08/07/23	Sirohi	Satish/Subhash	9
46.	CWT Training	10/07/23	Sirohi	Subhash /Satish	11
47.	CWT Training	12/07/23	Sirohi	Subhash	13
48.	On Job Training	15/07/23	Sirohi	Satish/Subhash	7
49.	On Job Training	16/07/23	Sirohi	Satish/Subhash	10
50.	SST Training	18/07/23	Sirohi	Satish	9
51.	SST Training	20/07/23	Sirohi	Subhash	7
52.	SST Training	21/07/23	Sirohi	Subhash	7

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
53.	On Job Training	23/07/23	Sirohi	Satish/Subhash	9
54.	On Job Training	25/07/23	Sirohi	Satish/Subhash	10
55.	On Job Training	26/07/23	Sirohi	Satish	13
56.	On Job Training	28/07/23	Sirohi	Subhash	10
57.	CWT Training	03/08/23	Sirohi	Subhash	18
58.	CWT Training	04/09/23	Sirohi	Satish/Subhash	20
59.	SST Training	08/09/23	Sirohi	Satish/Subhash	10
60.	SST Training	16/09/23	Sirohi	Subhash /Satish	12
61.	CWT Training	20/09/23	Sirohi	Satish/Subhash	09
62.	CWT Training	22/09/23	Sirohi	Subhash /Satish	15
63.	On Job Training	26/09/23	Sirohi	Satish/Subhash	10
Pratapgarh Town					
1.	PPE 's safety Training	08/04/2023	STP	Ashutosh Kumar	20
2.	Road Safety Training	16/04/2023	STP	Ashutosh Kumar	18
3.	Covid-19 Safety training	20/04/2023	STP	Ashutosh Kumar	08
4.	General Health safety Training	28/04/2023	STP	Ashutosh Kumar	15
5.	PPE 's safety Training	05/05/2023	STP	Ashutosh Kumar	20
6.	Road Safety Training	12/05/2023	STP	Ashutosh Kumar	18
7.	Covid-19 Safety training	22/05/2023	STP	Ashutosh Kumar	08
8.	General Health safety Training	29/05/2023	STP	Ashutosh Kumar	15
9.	PPE 's safety Training	05/07/2023	STP	Ashutosh Kumar	18
10.	Road Safety Training	17/07/2023	STP	Ashutosh Kumar	10
11.	Covid-19 Safety training	21/07/2023	STP	Ashutosh Kumar	08
12.	General Health safety Training	26/07/2023	STP	Ashutosh Kumar	12
13.	PPE 's safety Training	05/08/2023	STP	Ashutosh Kumar	18
14.	Road Safety Training	17/08/2023	STP	Ashutosh Kumar	10
15.	Covid-19 Safety training	21/08/2023	STP	Ashutosh Kumar	08
16.	General Health safety Training	26/08/2023	STP	Ashutosh Kumar	12
17.	PPE 's safety Training	07/09/2023	STP	Ashutosh Kumar	12
18.	Road Safety Training	14/09/2023	STP	Ashutosh Kumar	10
19.	Covid-19 Safety training	18/09/2023	STP	Ashutosh Kumar	30
20.	General Health safety Training	21/09/2023	STP	Ashutosh Kumar	14
Name of Town: Banswara					
1.	Work at Height safety training	23/04/2023	STP	Ashish Rawat	12
2.	Excavation Safety training	15/04/2023	WTP	Ashish Rawat	20
3.	PPE 's safety Training	18/04/2023	WTP	Ashish Rawat	15
4.	Material manual Handling	12/04/2023	STP	Ashish Rawat	20
5.	Housekeeping training	25/04/2023	STP	Ashish Rawat	25
6.	First aid Safety Training	24/04/2023	STP	Ashish Rawat	15
7.	Good Practice PPEs	23/05/2023	STP	Ashish Rawat	15
8.	Tool box talk	08/05/2023	WTP	Ashish Rawat	25
9.	Site Specific Training	20/05/2023	WTP	Ashish Rawat	20
10.	Contractor Workmen Training	14/05/2023	STP	Ashish Rawat	20
11.	Housekeeping training	22/05/2023	STP	Ashish Rawat	25
12.	Labour Day Awareness	01/05/2023	Labour Camp	Ashish Rawat	50
13.	Work at Height safety training	23/06/2023	STP	Ashish Rawat	12
14.	Excavation Safety training	15/06/2023	WTP	Ashish Rawat	20

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
15.	PPE 's safety Training	18/06/2023	WTP	Ashish Rawat	15
16.	Material manual Handling	12/06/2023	STP	Ashish Rawat	20
17.	Housekeeping training	25/06/2023	STP	Ashish Rawat	25
18.	First aid Safety Training	24/06/2023	STP	Ashish Rawat	15
19.	Work at Height safety training	20/07/2023	STP	Md Faizal	15
20.	Excavation Safety training	13/07/2023	WTP	Md Faizal	20
21.	PPE 's safety Training	25/07/2023	WTP	Md Faizal	18
22.	Material manual Handling	08/07/2023	STP	Md Faizal	12
23.	Housekeeping training	17/07/2023	STP	Md Faizal	20
24.	First aid Safety Training	22/07/2023	STP	Md Faizal	15
25.	Electrical safety training	27/08/2023	Kandharwadi	Ashish Badauriya	19
26.	Site Specific training	10/08/2023	Neelam Nagar	Ashish Badauriya	16
27.	PPE 's safety Training	19/08/2023	Bhoiwada	Ashish Badauriya	20
28.	Training Of Material Handling	04/08/2023	WTP, Aen Campus	Ashish Badauriya	17
29.	Contractor Workmen Training	14/08/2023	Bhoiwada	Ashish Badauriya	17
30.	Electrical safety training	27/08/2023	Kandharwadi	Ashish Badauriya	19
31.	Site Specific training	10/08/2023	Neelam Nagar	Ashish Badauriya	16
32.	PPE 's safety Training	19/08/2023	Bhoiwada	Ashish Badauriya	20
33.	Training Of Material Handling	04/08/2023	WTP, Aen Campus	Ashish Badauriya	17
34.	Contractor Workmen Training	14/08/2023	Bhoiwada	Ashish Badauriya	17
Sardarshahar Town					
1.	EHS Alert	24.04.2023	Sardarshahar	Rakesh Kumar Sahu	4
2.	Fire Fighting	20.04.2023	Sardarshahar	Rakesh Kumar Sahu	5
3.	Work at Height	19.04.2023	Sardarshahar	Rakesh Kumar Sahu	10
4.	Work at Height Safety Campaign	19.04.2023	Sardarshahar	Rakesh Kumar Sahu	0
5.	EHS Alert	20.04.2023	Sardarshahar	Rakesh Kumar Sahu	10
6.	Mock Drill	15.04.2023	Sardarshahar	Rakesh Kumar Sahu	6
7.	Sop Compliance at Site	08.04.2023	Sardarshahar	Rakesh Kumar Sahu	19
8.	EHS Alert	10.04.2023	Sardarshahar	Rakesh Kumar Sahu	8
9.	EHS Alert	10.04.2023	Sardarshahar	Rakesh Kumar Sahu	5
10.	CWT- BBS	10.05.2023	Sardarshahar	Rakesh Kumar Sahu	6
11.	CWT- BBS	01.05.2023	Sardarshahar	Rakesh Kumar Sahu	53
12.	SST- Electrical Safety	17.05.2023	Sardarshahar	Rakesh Kumar Sahu	15
13.	SST-Heat Stress	22.05.2023	Sardarshahar	Rakesh Kumar Sahu	15
14.	Mock Drill-Heat Stress	26.05.2023	Sardarshahar	Rakesh Kumar Sahu	08
15.	Mock Drill	30.05.2023	Sardarshahar	Rakesh Kumar Sahu	15
16.	EHS Alert 02	06.05.2023	Sardarshahar	Rakesh Kumar Sahu	16
17.	EHS Alert 03	08.05.2023	Sardarshahar	Rakesh Kumar Sahu	19
18.	EHS Alert 04	22.05.2023	Sardarshahar	Rakesh Kumar Sahu	12
19.	CWT- Confined Space Training	2023/06/14	Sardarshahar	Rakesh Kumar Sahu	10
20.	CWT- Excavation Safety Training	2023/06/27	Sardarshahar	Rakesh Kumar Sahu	09
21.	SST- Work At Height	2023/06/12	Sardarshahar	Rakesh Kumar Sahu	12
22.	SST-WAH Campaign	2023/06/19	Sardarshahar	Rakesh Kumar Sahu	31
23.	Mock Drill-Heat Stress	2023/06/24	Sardarshahar	Rakesh Kumar Sahu	09
24.	Mock Drill-Person Fall Down	2023/06/28	Sardarshahar	Rakesh Kumar Sahu	13
25.	EHS Alert 06	2023/06/10	Sardarshahar	Rakesh Kumar Sahu	07

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
26.	EHS Alert 07	2023/06/09	Sardarshahar	Rakesh Kumar Sahu	06
27.	EHS Alert 08	2023/06/13	Sardarshahar	Rakesh Kumar Sahu	19
28.	CWT- Excavation Safety Training	2023/07/20	Sardarshahar	Rakesh Kumar Sahu	13
29.	CWT- Valve Chamber Training	2023/07/22	Sardarshahar	Rakesh Kumar Sahu	11
30.	SST- Work At Height Staff	2023/07/04	Sardarshahar	Rakesh Kumar Sahu	23
31.	SST-WAH Workmen	2023/07/04	Sardarshahar	Rakesh Kumar Sahu	48
32.	Mock Drill- Electrocution	2023/07/27	Sardarshahar	Rakesh Kumar Sahu	09
33.	Mock Drill-Emergency Rescue	2023/07/28	Sardarshahar	Rakesh Kumar Sahu	10
34.	EHS Alert 13 Staff	2023/07/15	Sardarshahar	Rakesh Kumar Sahu	19
35.	EHS Alert 11	2023/07/22	Sardarshahar	Rakesh Kumar Sahu	109
36.	EHS Alert 12	2023/07/08	Sardarshahar	Rakesh Kumar Sahu	06
37.	Work at Height Safety Training	2023/08/14	Sardarshahar	Rakesh Kumar Sahu	11
38.	Confined Space Safety Training	2023/08/22	Sardarshahar	Rakesh Kumar Sahu	49
39.	SST- Electrocution Safety Training	2023/08/01	Sardarshahar	Rakesh Kumar Sahu	35
40.	SST- Electrocution Safety Training	2023/08/10	Sardarshahar	Rakesh Kumar Sahu	12
41.	Mock Drill-Grinding Hazard	2023/08/25	Sardarshahar	Rakesh Kumar Sahu	19
42.	Mock Drill-Electrocution	2023/08/28	Sardarshahar	Rakesh Kumar Sahu	17
43.	EHS Alert 15	2023/08/04	Sardarshahar	Rakesh Kumar Sahu	16
44.	EHS Alert 16	2023/08/07	Sardarshahar	Rakesh Kumar Sahu	09
45.	EHS Alert 16	2023/08/26	Sardarshahar	Rakesh Kumar Sahu	12
46.	CWT- Basic PPE requirement	2023/09/07	Sardarshahar	Rakesh Kumar Sahu	10
47.	CWT- Work At Height Training	2023/09/23	Sardarshahar	Rakesh Kumar Sahu	09
48.	SST- BBS & OCP Training	2023/09/11	Sardarshahar	Rakesh Kumar Sahu	123
49.	SST- PPE CAMPAIGN Training	2023/09/11	Sardarshahar	Rakesh Kumar Sahu	20
50.	Mock Drill- Entanglement Floater	2023/09/06	Sardarshahar	Rakesh Kumar Sahu	8
51.	Mock Drill- Material Handling	2023/09/29	Sardarshahar	Rakesh Kumar Sahu	8
52.	EHS Alert 17	2023/09/07	Sardarshahar	Rakesh Kumar Sahu	10
53.	EHS Alert 18	2023/09/06	Sardarshahar	Rakesh Kumar Sahu	13
54.	EHS Alert 19	2023/09/16	Sardarshahar	Rakesh Kumar Sahu	16
Ratangarh Town					
1.	Door to door meeting	07/04/2023	Ratangarh	Praveen & Himanshu	30
2.	Aanganwadi Meeting with kids	14/04/2023	Ratangarh	Praveen & Himanshu	22
3.	Community meeting	18/04/2023	Ratangarh	Praveen & Himanshu	35
4.	Student awareness program	20/04/2023	Ratangarh	Praveen & Himanshu	25
5.	Meeting with ward councilors	21/04/2023	Ratangarh	Praveen & Himanshu	5
6.	Community meeting	24/04/2023	Ratangarh	Praveen & Himanshu	10
7.	Student awareness program	26/04/2023	Ratangarh	Praveen & Himanshu	20
8.	Community meeting	29/04/2023	Ratangarh	Praveen & Himanshu	18
9.	Door to door meeting, Aanganwadi Meeting with kids, Community meeting, Student awareness program, Meeting with ward councilors, Community meeting	May 2023	Ratangarh	Praveen & Himanshu	100
10.	Hand Sanitizer Activities	06/06/2023	Zone:- 1,2,4,5	Praveen & Himanshu	125
11.	Disinfection Activity	16/06/2023	Zone:- 1,2,4,5	Praveen & Himanshu	120
12.	Electrical safety Training	20/06/2023	Zone:- 1,2,4,5	Praveen & Himanshu	105
13.	Fire And Safety Training	28/06/2023	Zone:- 1,2,4,5	Praveen & Himanshu	118
14.	Door to door meeting	08-07-23	Zone:- 1,	Praveen & Himanshu	30

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
15.	Community meeting	15-07-23	Zone:- 2,	Praveen & Himanshu	60
16.	Aanganwadi Meeting with kids	22-07-23	Zone:- 5,	Praveen & Himanshu	20
17.	Public Consultation	07-08-23	Zone:- 3,	Kamalesh, Anil singh, Manisha, Sunil kumar	25
18.	Group Discussion	14-08-23	Zone:- 5,	Kamalesh, Anil singh, Manisha, Sunil kumar	20
19.	School student meeting	21-08-23	Zone:- 1,	Kamalesh, Anil singh, Manisha, Sunil kumar	20
20.	Door to door meeting	08-09-23	Zone:- 1,	Praveen & Himanshu	30
21.	Community meeting	13-09-23	Zone:- 2,	Praveen & Himanshu	35
22.	Aanganwadi Meeting with kids	22-09-23	Zone:- 4,	Praveen & Himanshu	20
Fatehpur Town					
1.	Door to door meeting	13/04/2023	Fatehpur	Praveen & Himanshu	50
2.	Community meeting	18/04/2023	Fatehpur	Praveen & Himanshu	30
3.	Door to door meeting	18/04/2023	Fatehpur	Praveen & Himanshu	45
4.	Community meeting	24/04/2023	Fatehpur	Praveen & Himanshu	27
5.	Community meeting	24/04/2023	Fatehpur	Praveen & Himanshu	15
6.	Community meeting	28/04/2023	Fatehpur	Praveen & Himanshu	12
7.	Mock Drill-Heat Stress	30.05.2023	Fatehpur	Kamalesh, Anil Singh, Manisha, Sunil Kumar	25
8.	Labour day	01-05-2023	Fatehpur	Praveen & Himanshu	30
9.	Door to door meeting	08-05-2023	Fatehpur	Praveen & Himanshu	50
10.	Community meeting	15-05-2023	Fatehpur	Praveen & Himanshu	15
11.	Aanganwadi Meeting with kids	22-05-2023	Fatehpur	Praveen & Himanshu	10
12.	Environment day, Door to door meeting & School student meeting	28/06/2023	Fatehpur	Kamalesh, Anil, Manisha & Sunil	55
13.	Public Consultation	08-07-2023	Zone:- 3,	Kamalesh, Anil, Manisha & Sunil	20
14.	Group Discussion	11-07-2023	Zone:- 5,	Kamalesh, Anil, Manisha & Sunil	20
15.	School student meeting	22-07-2023	Zone:- 1,	Kamalesh, Anil, Manisha & Sunil	15
16.	Public Consultation	08-07-2023	Zone:- 3,	Kamalesh, Anil, Manisha & Sunil	20
17.	Group Discussion	11-07-2023	Zone:- 5,	Kamalesh, Anil, Manisha & Sunil	20
18.	School student meeting	22-07-2023	Zone:- 1,	Kamalesh, Anil, Manisha & Sunil	15
19.	Public Consultation	09-09-2023	Zone:- 1,	Kamalesh, Anil, Manisha & Sunil	20
20.	School student meeting	15-09-2023	Zone:- 3,	Kamalesh, Anil, Manisha & Sunil	15
21.	Group Discussion	28-09-2023	Zone:- 5,	Kamalesh, Anil, Manisha & Sunil	15

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
Laxmangarh Town					
1.	Community meeting	06/04/2023	Laxmangarh	Neeraj, Jeevan, Sohan, Priyanka, Pooja, Ajay, Maneesh	20
2.	Door to door meeting	28/04/2023	Laxmangarh	Neeraj, Jeevan, Sohan, Priyanka, Pooja, Ajay, Maneesh	15
3.	Labour day	1/05/2023	Laxmangarh	Neeraj, Jeevan, Sohan, Priyanka, Pooja, Ajay, Maneesh	35
4.	Thermal Scanning Activities	15/06/2023	Laxmangarh	Neeraj, Jeevan, Sohan, Priyanka, Pooja, Ajay, Maneesh	30
5.	Induction Training	18/06/2023	Laxmangarh	Neeraj, Jeevan, Sohan, Priyanka, Pooja, Ajay, Maneesh	
6.	Glucose Distribution to site Work	28/06/2023	Laxmangarh	Neeraj, Jeevan, Sohan, Priyanka, Pooja, Ajay, Maneesh	
7.	Gender (Community) Awareness	28-07-2023	Laxmangarh	Neeraj, Jeevan, Sohan, Priyanka, Pooja, Ajay, Maneesh	45
8.	Gender (Community) Awareness	21-08-2023	Laxmangarh	Praveen, Jeevan, Ravi Prakash, Priyanka, Pooja, Deep Chand, Manish saini	54
9.	Gender (Community) Awareness	25-09-2023	Laxmangarh	Praveen, Jeevan, Ravi Prakash, Priyanka, Pooja, Deep Chand, Manish saini	38

Directions by PMU to all PIUs for implementation of Prevention and Control Measures Adopted for COVID-19



Office of Project Director
Rajasthan Urban Infrastructure Development Project (Unit of RUDSICO)
 AVS Building, Jawahar Circle, JLN Marg, Jaipur - 302017
 Tel No.: 141 2721966, Fax No.: 141 2721919,
 email : mailruidp@gmail.com, mail.ruidp@rajasthan.gov.in web site : www.ruidp.rajasthan.gov.in

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
during April to 2023 September 2023**

S. No.	Activities done	Date	Location	No. of Participants
Abu Road				
1.	Thermal screening of workers at the site	Daily	Manpur & Santpur Workmen camp	165
2.	Hand Sanitization activity of workers at the site	Daily	Abu Road	165
3.	Mask Distribution	Regularly	Abu Road	200
4.	Office & Labor Camp Disinfection Activity	12.04.2023 & 24.04.2023	Manpur & Santpur	NA
5.	COVID-19 Awareness & Precautions Training for workmen and staff	01.04.2023 to 30.04.2023	Manpur	47
6.	Display of Signage for Covid-19 Awareness	Daily	All prominent locations	-
7.	Health Check-up Camp	01.04.2023 to 30.04.2023	Manpur	41
8.	Site medical visit	01.04.2023 to 30.04.2023	Manpur	56
9.	Thermal screening of workers at the site	Daily	Manpur & Santpur Workmen camp	165
10.	Hand Sanitization activity of workers at the site	Daily	Abu Road	165
11.	Mask Distribution	Regularly	Abu Road	200
12.	Office & Labor Camp Disinfection Activity	10.05.2023 & 26.05.2023	Manpur & Santpur	NA
13.	COVID-19 Awareness & Precautions Training for workmen and staff	01.05.2023 to 31.05.2023	Manpur	59
14.	Display of Signage for Covid-19 Awareness	Daily	All prominent locations	
15.	Health Check-up Camp	Daily	Manpur	47
16.	Site medical visit	Daily	Manpur	38
17.	Thermal screening of workers at the site	Daily	Manpur & Santpur Workmen camp	165
18.	Hand Sanitization activity of workers at the site	Daily	Abu Road	165
19.	Mask Distribution	Regularly	Abu Road	200
20.	Office & Labor Camp Disinfection Activity	14.06.2023 & 29.06.2023	Manpur & Santpur	4
21.	COVID-19 Awareness & Precautions Training for workmen and staff	01.06.2023 to 30.06.2023	Manpur	45
22.	Display of Signage for Covid-19 Awareness	Daily	All prominent locations	
23.	Health Check-up Camp	01.06.2023 to 30.06.2023	Manpur	52
24.	Site medical visit	01.06.2023 to 30.06.2023	Manpur	38
25.	Thermal screening of workers at the site	Daily	Manpur & Santpur Workmen camp	165
26.	Hand Sanitization activity of workers at the site	Daily	Abu Road	165
27.	Mask Distribution	Regularly	Abu Road	200
28.	Office & Labor Camp Disinfection Activity	14.07.2023 & 29.07.2023	Manpur & Santpur	NA
29.	COVID-19 Awareness & Precautions Training for workmen and staff	01.07.2023 to 31.07.2023	Manpur	30
30.	Display of Signage for Covid-19 Awareness	Daily	All prominent locations	
31.	Health Check-up Camp	Daily	Manpur	
32.	Site medical visit	Daily	Manpur	38

S. No.	Activities done	Date	Location	No. of Participants
33.	Thermal screening of workers at the site	Daily	Manpur & Santpur Workmen camp	35
34.	Hand Sanitization activity of workers at the site	Daily	Abu Road	35
35.	Mask Distribution	Regularly	Abu Road	100
36.	Office & Labor Camp Disinfection Activity	14.08.2023 & 29.08.2023	Manpur & Santpur	NA
37.	COVID-19 Awareness & Precautions Training for workmen and staff	01.08.2023 to 31.08.2023	Manpur	25
38.	Display of Signage for Covid-19 Awareness	Daily	All prominent locations	
39.	Health Check-up Camp	01.08.2023 to 31.08.2023	Manpur	65
40.	Site medical visit	01.08.2023 to 31.08.2023	Manpur	32
41.	Thermal screening of workers at the site	Daily	Manpur & Santpur Workmen camp	35
42.	Hand Sanitization activity of workers at the site	Daily	Abu Road	35
43.	Mask Distribution	Daily	Abu Road	100
44.	Office & Labor Camp Disinfection Activity	Daily	Manpur & Santpur	NA
45.	Workmen training on COVID-19 awareness	Daily	Manpur	15
46.	Display of Signage for Covid-19 Awareness	Daily	All prominent locations	
47.	Health Check-up Camp	Daily	Manpur	63
48.	Site medical visit	Daily	Manpur	23
Sirohi				
1.	Thermal screening of workers at the site	Daily	Sirohi	150
2.	Hand Sanitization activity of workers at the site	Daily	Sirohi	19
3.	Mask Distribution	04/04/23	Sirohi	120
4.	Office & Labor Camp Disinfection Activity	04/04/23	Sirohi	04
5.	Workmen training on COVID-19 awareness	12/04/23	Sirohi	43
6.	Display of Signage for Covid-19 Awareness	05/04/23	Sirohi	-
7.	Site medical visit	Regularly	Sirohi	129
8.	Thermal screening of workers at the site	Daily	Sirohi	145
9.	Hand Sanitization activity of workers at the site	Regularly	Sirohi	15
10.	Mask Distribution	05/05/23	Sirohi	110
11.	Office & Labor Camp Disinfection Activity	04/05/23	Sirohi	04
12.	Workmen training on COVID-19 awareness	12/05/23	Sirohi	53
13.	Display of Signage for Covid-19 Awareness	05/05/23	Sirohi	-
14.	Site medical visit	Regularly	Sirohi	142
15.	Thermal screening of workers at the site	Daily	Sirohi	180
16.	Hand Sanitization activity of workers at the site	Regularly	Sirohi	15
17.	Mask Distribution	06/06/23	Sirohi	105
18.	Office & Labor Camp Disinfection Activity	05/06/23	Sirohi	04
19.	Workmen training on COVID-19 awareness	11/06/23	Sirohi	53
20.	Display of Signage for Covid-19 Awareness	06/06/23	Sirohi	-
21.	Site medical visit	Regularly	Sirohi	165
22.	Thermal screening of workers at the site	Daily	Sirohi	180
23.	Hand Sanitization activity of workers at the site	Regularly	Sirohi	220
24.	Mask Distribution	03/07/23	Sirohi	200
25.	Office & Labor Camp Disinfection Activity	04/07/23	Sirohi	04
26.	Workmen training on COVID-19 awareness	15/07/23	Sirohi	45
27.	Display of Signage for Covid-19 Awareness	07/07/23	Sirohi	-
28.	Site medical visit	Regularly	Sirohi	123
29.	Thermal screening of workers at the site	Daily	Sirohi	140

S. No.	Activities done	Date	Location	No. of Participants
30.	Hand Sanitization activity of workers at the site	Regularly	Sirohi	15
31.	Mask Distribution	04/08/23	Sirohi	50
32.	Office & Labor Camp Disinfection Activity	04/08/23	Sirohi	04
33.	Workmen training on COVID-19 awareness	10/08/23	Sirohi	35
34.	Display of Signage for Covid-19 Awareness	09/08/23	Sirohi	-
35.	Site medical visit	Regularly	Sirohi	95
36.	Thermal screening of workers at the site	Daily	Sirohi	140
37.	Hand Sanitization activity of workers at the site	Regularly	Sirohi	15
38.	Mask Distribution	10/09/23	Sirohi	50
39.	Office & Labor Camp Disinfection Activity	07/09/23	Sirohi	04
40.	Workmen training on COVID-19 awareness	04/09/23	Sirohi	35
41.	Display of Signage for Covid-19 Awareness	09/09/23	Sirohi	-
42.	Site medical visit	Regularly	Sirohi	95
Fatehpur				
1.	Thermal screening of workers at the site	18/04/2023	Zone-1,2,3	60
2.	Hand Sanitization activity of workers at the site	18/04/2023	Zone-1,2,3	60
3.	Mask Distribution	18/04/2023	Zone-1,2,3,	110
4.	Office & Labor Camp Disinfection Activity	15/04/2023	Office & Labour Camp	7
5.	COVID-19 Awareness & Precautions Training for workmen and staff	16/04/2023	Labour Camp & zone-1,2,3.	143
6.	Display of Signage for Covid-19 Awareness	24/04/2023	Zone-1,2,3	-
7.	Health Check-up Camp	24/04/2023	Workmen Camp	62
8.	Site medical visit	29/04/2023	STP And Site	35
9.	Thermal screening of workers at the site	Daily	Zone-WC, 1,2,	120
10.	Hand Sanitization activity of workers at the site	Daily	Zone-STP, 1,2	120
11.	Mask Distribution	28/05/2023	Zone-1,2	20
12.	Office & Labor Camp Disinfection Activity	Weekly	Office & Labour Camp	4
13.	Workmen training on COVID-19 awareness	28/05/2023	zone-1	1
14.	Display of Signage for Covid-19 Awareness	28/05/2023	Zone-Office, WC, 1,2,	-
15.	Health Check-up Camp	Weekly	STP	4
16.	Site medical visit	Weekly	STP And Site	4
17.	Thermal screening of workers at the site	Daily	Zone-WC, 1,2,	100
18.	Hand Sanitization activity of workers at the site	Daily	Zone-STP, 1,2	100
19.	Mask Distribution	28/06/2023	Zone-1,2,	10
20.	Office & Labor Camp Disinfection Activity	Weekly	Office & Labour Camp	4
21.	Workmen training on COVID-19 awareness	28/06/2023	zone-1	1
22.	Display of Signage for Covid-19 Awareness	28/06/2023	Zone-Office, WC, 1,2,	-
23.	Health Check-up Camp	Weekly	STP	4
24.	Site medical visit	Weekly	STP And Site	4
25.	Thermal screening of workers at the site	Daily	Zone-WC, 1,2,	60
26.	Hand Sanitization activity of workers at the site	Daily	Zone-STP, 1,2	60
27.	Mask Distribution	28/07/2023	Zone-1,2,	45
28.	Office & Labor Camp Disinfection Activity	Weekly	Office & Labour Camp	4
29.	Workmen training on COVID-19 awareness	28/07/2023	zone-1	20
30.	Display of Signage for Covid-19 Awareness	28/07/2023	Zone-Office, WC 1,2,	20
31.	Health Check-up Camp	Weekly	STP	4
32.	Site medical visit	Weekly	STP And Site	4
33.	Thermal screening of workers at the site	07/08/2023	Zone-WC, 1,2,	45
34.	Hand Sanitization activity of workers at the site	14/08/2023	Zone-STP, 1,2	45
35.	Mask Distribution	28/08/2023	Zone-1,2,	10
36.	Office & Labor Camp Disinfection Activity	Weekly	Office & Labour Camp	4
37.	Workmen training on COVID-19 awareness	28/08/2023	zone-1	20

S. No.	Activities done	Date	Location	No. of Participants
38.	Display of Signage for Covid-19 Awareness	21/08/2023	Zone-Office, WC, 1,2,	4
39.	Health Check-up Camp	Weekly	STP	15
40.	Site medical visit	Weekly	STP And Site	10
41.	Thermal screening of workers at the site	08/09/2023	Zone-WC, 1,2,	35
42.	Hand Sanitization activity of workers at the site	15/09/2023	Zone-STP, 1,2	35
43.	Mask Distribution	23/09/2023	Zone-1,2,	15
44.	Office & Labor Camp Disinfection Activity	Weekly	Office & Labour Camp	2
45.	Workmen training on COVID-19 awareness	26/09/2023	zone-1	30
46.	Display of Signage for Covid-19 Awareness	22/09/2023	Zone-Office, WC, 1,2,	4
47.	Health Check-up Camp	Weekly	STP	20
48.	Site medical visit	Weekly	STP and Site	20
Laxmangarh				
1.	Thermal screening of workers at the site	30/04/2023	AEN Campus, WC, Zone-1,2,3&8	60
2.	Hand Sanitization activity of workers at the site	30/04/2023	AEN Campus, WC, Zone-1,2,3&8	60
3.	Mask Distribution	30/04/2023	AEN Campus, WC, Zone-1,2,3&8	12
4.	Office & Labor Camp Disinfection Activity	Weekly	Office , Labour Camp	4
5.	Workmen training on COVID-19 awareness	28/04/2023	Zone-1,2,3&8 Zone	15
6.	Display of Signage for Covid-19 Awareness	29/04/2023	Zone-1,2,4,5	4
7.	Health Check-up Camp	Weekly	AEN Campus, WC, Zone-1,2,3&8	04
8.	Site medical visit	Weekly	Labour Camp	04
9.	Thermal screening of workers at the site	31/05/2023	AEN Campus, WC, Zone-1,2,3&8	65
10.	Hand Sanitization activity of workers at the site	31/05/2023	AEN Campus, WC, Zone-1,2,3&8	65
11.	Mask Distribution	31/05/2023	AEN Campus, WC, Zone-1,2,3&8	All Staff
12.	Office & Labor Camp Disinfection Activity	Weekly	Office, Labour Camp	4
13.	Workmen training on COVID-19 awareness	28/05/2023	Zone-1,2,3&8 Zone	15
14.	Display of Signage for Covid-19 Awareness	29/05/2023	Zone-1,2,4,5	4
15.	Health Check-up Camp	Weekly	AEN Campus, WC, Zone-1,2,3&8	04
16.	Site medical visit	Weekly	Labour Camp	04
17.	Thermal screening of workers at the site	30/06/2023	AEN Campus, WC, Zone-1,2,3&8	40
18.	Hand Sanitization activity of workers at the site	30/06/2023	AEN Campus, WC, Zone-1,2,3&8	40
19.	Mask Distribution	30/06/2023	AEN Campus, WC, Zone-1,2,3&8	All Staff
20.	Office & Labor Camp Disinfection Activity	Weekly	Office, Labour Camp	4
21.	Workmen training on COVID-19 awareness	28/06/2023	Zone-1,2,3&8 Zone	10
22.	Display of Signage for Covid-19 Awareness	29/06/2023	Zone-1,2,4,5	4
23.	Health Check-up Camp	Weekly	AEN Campus, WC, Zone-1,2,3&8	04
24.	Site medical visit	Weekly	Labour Camp	04
25.	Thermal screening of workers at the site	31/07/2023	AEN Campus, WC, Zone-1,2,3&8	60
26.	Hand Sanitization activity of workers at the site	31/07/2023	AEN Campus, WC, Zone-1,2,3&8	60

S. No.	Activities done	Date	Location	No. of Participants
27.	Mask Distribution	31/07/2023	AEN Campus, WC, Zone-1,2,3&8	30
28.	Office & Labor Camp Disinfection Activity	Weekly	Office, Labour Camp	4
29.	Workmen training on COVID-19 awareness	28/07/2023	Zone-1,2,3&8 Zone	20
30.	Display of Signage for Covid-19 Awareness	29/07/2023	Zone-1,2,4,5	4
31.	Health Check-up Camp	Weekly	AEN Campus, WC, Zone-1,2,3&8	04
32.	Site medical visit	Weekly	Labour Camp	04
33.	Thermal screening of workers at the site	05/08/2023	AEN Campus, WC, Zone-1,2,3&8	10
34.	Hand Sanitization activity of workers at the site	12/08/2023	AEN Campus, WC, Zone-1,2,3&8	10
35.	Mask Distribution	19/08/2023	AEN Campus, WC, Zone-1,2,3&8	10
36.	Office & Labor Camp Disinfection Activity	Weekly	Office, Labour Camp	4
37.	Workmen training on COVID-19 awareness	24/08/2023	Zone-1,2,3&8 Zone	20
38.	Display of Signage for Covid-19 Awareness	28/08/2023	Zone-1,2,4,5	4
39.	Health Check-up Camp	Weekly	AEN Campus, WC, Zone-1,2,3&8	04
40.	Site medical visit	Weekly	Labour Camp	04
41.	Thermal screening of workers at the site	30/09/2023	AEN Campus, WC, Zone-1,2,3&8	38
42.	Hand Sanitization activity of workers at the site	30/09/2023	AEN Campus, WC, Zone-1,2,3&8	38
43.	Mask Distribution	30/09/2023	AEN Campus, WC, Zone-1,2,3&8	30
44.	Office & Labor Camp Disinfection Activity	Weekly	Office, Labour Camp	4
45.	Workmen training on COVID-19 awareness	22/09/2023	Zone-1,2,3&8 Zone	20
46.	Display of Signage for Covid-19 Awareness	20/09/2023	Zone-1,2,4,5	4
47.	Health Check-up Camp	Weekly	AEN Campus, WC, Zone-1,2,3&8	04
48.	Site medical visit	Weekly	Labour Camp	04
Ratangarh				
1.	Thermal screening of workers at the site	28/04/2023	Zone-1,2,4,5	60
2.	Hand Sanitization activity of workers at the site	29/04/2023	Zone-1,2,3	65
3.	Mask Distribution	28/04/2023	Zone-1,2,3,4	135
4.	Office & Labor Camp Disinfection Activity	04/04/2023, 13/04/2023 26/04/2023	Office & Labour Camp	
5.	COVID-19 Awareness & Precautions Training for workmen and staff	28/04/2023	Labor Camp, zone-1,2,3,4,5	180
6.	Display of Signage for Covid-19 Awareness	28/04/2023	Zone-1,2,4,5	55
7.	Health Check-up Camp	29/04/2023	STP-6.1	87
8.	Site medical visit	29/04/2023	STP 3.8, STP 6.1& Site	30
9.	Thermal screening of workers at the site	26/05/2023	Zone-1,2,4,5	60
10.	Hand Sanitization activity of workers at the site	29/05/2023	Zone-1,2,3	65
11.	Mask Distribution	26/05/2023	Zone-1,2,3,4	10
12.	Office & Labor Camp Disinfection Activity	04/05/2023, 13/05/2023 26/05/2023	Office & Labour Camp	
13.	COVID-19 Awareness & Precautions Training for workmen and staff	26/05/2023	Labor Camp, zone-1,2,3,4,5	50

S. No.	Activities done	Date	Location	No. of Participants
14.	Display of Signage for Covid-19 Awareness	26/05/2023	Zone-1,2,4,5	30
15.	Health Check-up Camp	26/05/2023	STP-6.1	87
16.	Site medical visit	26/05/2023	STP 3.8, STP 6.1& Site	30
17.	Thermal screening of workers at the site	26/06/2023	Zone-1,2,4,5	-
18.	Hand Sanitization activity of workers at the site	29/06/2023	Zone-1,2	-
19.	Mask Distribution	26/06/2023	Zone-1,2,3,4	-
20.	Office & Labor Camp Disinfection Activity	04/06/2023 13/06/2023 26/06/2023	Office & Labour Camp	
21.	COVID-19 Awareness & Precautions Training for workmen and staff	26/06/2023	Labor Camp, zone-1,2,3,4,5	-
22.	Display of Signage for Covid-19 Awareness	26/06/2023	Zone-1,2,4,5	-
23.	Health Check-up Camp	26/06/2023	STP-6.1	-
24.	Site medical visit	26/06/2023	STP 3.8, STP 6.1& Site	-
25.	Thermal screening of workers at the site	26/07/2023	Zone-1,2,4,5	75
26.	Hand Sanitization activity of workers at the site	29/07/2023	Zone-1,2	75
27.	Mask Distribution	26/07/2023	Zone-1,2,3,4	40
28.	Office & Labor Camp Disinfection Activity	04/07/2023 13/07/2023	Office & Labour Camp	2
29.	COVID-19 Awareness & Precautions Training for workmen and staff	26/07/2023	Labor Camp, zone-1,2,3,4,5	25
30.	Display of Signage for Covid-19 Awareness	26/07/2023	Zone-1,2,4,5	25
31.	Health Check-up Camp	26/07/2023	Workman Camp	15
32.	Site medical visit	26/07/2023	STP 3.8, STP 6.1& Site	25
33.	Thermal screening of workers at the site	03/08/2023	Zone-1,2,4,5	65
34.	Hand Sanitization activity of workers at the site	07/08/2023	Zone-1,2	65
35.	Mask Distribution	11/08/2023	Zone-1,2,3,4	20
36.	Office & Labor Camp Disinfection Activity	12/08/2023	Office & Labour Camp	4
37.	Workmen training on COVID-19 awareness	18/08/2023	Zone-1,2,3,4,5	30
38.	Display of Signage for Covid-19 Awareness	18/08/2023	Zone-1,2,4,5	4
39.	Health Check-up Camp	26/08/2023	RGM Hospital	25
40.	Site medical visit	26/08/2023	STP 3.8, STP 6.1& Site	30
41.	Thermal screening of workers at the site	04/09/2023	Zone-1,3,2,4,5	90
42.	Hand Sanitization activity of workers at the site	04/09/2023	Zone-1,3,2,4,5	90
43.	Mask Distribution	11/09/2023	Zone-1,2,3,4	25
44.	Office & Labor Camp Disinfection Activity	15/09/2023	Office & Labour Camp	2
45.	Workmen training on COVID-19 awareness	18/09/2023	Zone-1,2,3,4,5	40
46.	Display of Signage for Covid-19 Awareness	18/09/2023	Zone-1,2,4,5	4
47.	Health Check-up Camp	25/09/2023	STP 6.1 MLD	30
48.	Site medical visit	25/09/2023	STP 3.8, STP 6.1& Site	40
Sardarshahar				
1.	Thermal screening of workers at the site	All Day	Sardarshahar	210
2.	Hand Sanitization activity of workers at the site	All Day	Sardarshahar	210
3.	Mask Distribution	As Required	Sardarshahar	300
4.	Office & Labor Camp Disinfection Activity	10 days in month	Sardarshahar	02
5.	Workmen training on COVID-19 awareness	As Required	Sardarshahar	150
6.	Display of Signage for Covid-19 Awareness	As Required	Sardarshahar	210
7.	Health Check-up Camp	08 times in month	Sardarshahar	160
8.	Site medical visit	08 times in month	Sardarshahar	8
9.	Thermal screening of workers at the site	All Day	Sardarshahar	236
10.	Hand Sanitization activity of workers at the site	All Day	Sardarshahar	236
11.	Mask Distribution	As Required	Sardarshahar	500

S. No.	Activities done	Date	Location	No. of Participants
12.	Office & Labor Camp Disinfection Activity	10 days in month	Sardarshahar	04
13.	Workmen training on COVID-19 awareness	As Required	Sardarshahar	210
14.	Display of Signage for Covid-19 Awareness	As Required	Sardarshahar	216
15.	Health Check-up Camp	08 times in month	Sardarshahar	190
16.	Site medical visit	08 times in month	Sardarshahar	8
17.	Thermal screening of workers at the site	All Day	Sardarshahar	254
18.	Hand Sanitization activity of workers at the site	All Day	Sardarshahar	254
19.	Mask Distribution	As Required	Sardarshahar	500
20.	Office & Labor Camp Disinfection Activity	Regular Basis	Sardarshahar	04
21.	Workmen training on COVID-19 awareness	As Required	Sardarshahar	300
22.	Display of Signage for Covid-19 Awareness	As Required	Sardarshahar	250
23.	Health Check-up Camp	08 times in month	Sardarshahar	220
24.	Site medical visit	08 times in month	Sardarshahar	8
25.	Thermal screening of workers at the site	All Day	Sardarshahar	334
26.	Hand Sanitization activity of workers at the site	All Day	Sardarshahar	334
27.	Mask Distribution	As Required	Sardarshahar	1000
28.	Office & Labor Camp Disinfection Activity	10 days in month	Sardarshahar	05
29.	Workmen training on COVID-19 awareness	As Required	Sardarshahar	288
30.	Display of Signage for Covid-19 Awareness	As Required	Sardarshahar	334
31.	Health Check-up Camp	08 times in month	Sardarshahar	210
32.	Site medical visit	08 times in month	Sardarshahar	8
33.	Thermal screening of workers at the site	All Day	Sardarshahar	318
34.	Hand Sanitization activity of workers at the site	All Day	Sardarshahar	318
35.	Mask Distribution	As Required	Sardarshahar	1000
36.	Office & Labor Camp Disinfection Activity	10 days in month	Sardarshahar	01
37.	Workmen training on COVID-19 awareness	AS Required	Sardarshahar	318
38.	Display of Signage for Covid-19 Awareness	AS Required	Sardarshahar	318
39.	Health Check-up Camp	08times in month	Sardarshahar	318
40.	Site medical visit	08 times in month	Sardarshahar	8
41.	Thermal screening of workers at the site	All Day	Sardarshahar	325
42.	Hand Sanitization activity of workers at the site	All Day	Sardarshahar	325
43.	Mask Distribution	As Required	Sardarshahar	1000
44.	Office & Labor Camp Disinfection Activity	10 days in month	Sardarshahar	01
45.	Workmen training on COVID-19 awareness	As Required	Sardarshahar	325
46.	Display of Signage for Covid-19 Awareness	As Required	Sardarshahar	325
47.	Health Check-up Camp	08 times in month	Sardarshahar	325
48.	Site medical visit	08 times in month	Sardarshahar	8
Pratapgarh				
1.	Thermal screening of workers at the site	Daily Basis	STP, Pratapgarh	ALL
2.	Hand Sanitization activity of workers at the site	Daily Basis	STP, Pratapgarh	ALL
3.	Mask Distribution	20/04/2023	STP, Pratapgarh	25
4.	Office & Labor Camp Disinfection Activity	Daily Basis	STP, Pratapgarh	15
5.	Workmen training on COVID-19 awareness	20/04/2023	STP, Pratapgarh	25
6.	Display of Signage for Covid-19 Awareness	10/04/2023	STP, Pratapgarh	20
7.	Thermal screening of workers at the site	Daily Basis	STP, Pratapgarh	ALL
8.	Hand Sanitization activity of workers at the site	Daily Basis	STP, Pratapgarh	ALL
9.	Mask Distribution	15/05/2023	STP, Pratapgarh	20
10.	Office & Labor Camp Disinfection Activity	Daily Basis	STP, Pratapgarh	25
11.	Workmen training on COVID-19 awareness	18/05/2023	STP, Pratapgarh	20
12.	Display of Signage for Covid-19 Awareness	25/05/2023	STP, Pratapgarh	22
13.	Thermal screening of workers at the site	Daily Basis	STP, Pratapgarh	ALL
14.	Hand Sanitization activity of workers at the site	Daily Basis	STP, Pratapgarh	ALL

S. No.	Activities done	Date	Location	No. of Participants
15.	Mask Distribution	15/06/2023	STP, Pratapgarh	25
16.	Office & Labor Camp Disinfection Activity	Daily Basis	STP, Pratapgarh	15
17.	Workmen training on COVID-19 awareness	20/06/2023	STP, Pratapgarh	25
18.	Display of Signage for Covid-19 Awareness	10/04/2023	STP, Pratapgarh	20
19.	Thermal screening of workers at the site	Daily Basis	STP, Pratapgarh	95
20.	Hand Sanitization activity of workers at the site	Daily Basis	STP, Pratapgarh	95
21.	Mask Distribution	14/07/2023	STP, Pratapgarh	130
22.	Office & Labor Camp Disinfection Activity	Daily Basis	STP, Pratapgarh	15
23.	Workmen training on COVID-19 awareness	18/07/2023	STP, Pratapgarh	30
24.	Display of Signage for Covid-19 Awareness	10/04/2023	STP, Pratapgarh	20
25.	Thermal screening of workers at the site	Daily Basis	STP, Pratapgarh	ALL
26.	Hand Sanitization activity of workers at the site	Daily Basis	STP, Pratapgarh	ALL
27.	Mask Distribution	11/08/2023	STP, Pratapgarh	35
28.	Office & Labor Camp Disinfection Activity	Daily Basis	STP, Pratapgarh	15
29.	Workmen training on COVID-19 awareness	16/08/2023	STP, Pratapgarh	35
30.	Display of Signage for Covid-19 Awareness	10/04/2023	STP, Pratapgarh	20
31.	Thermal screening of workers at the site	Daily Basis	STP, Pratapgarh	ALL
32.	Hand Sanitization activity of workers at the site	Daily Basis	STP, Pratapgarh	ALL
33.	Mask Distribution	13/09/2023	STP, Pratapgarh	30
34.	Office & Labor Camp Disinfection Activity	Daily Basis	STP, Pratapgarh	12
35.	Workmen training on COVID-19 awareness	18/09/2023	STP, Pratapgarh	30
36.	Display of Signage for Covid-19 Awareness	10/04/2023	STP, Pratapgarh	20
Banswara				
1.	Thermal screening of workers at the site	Regular at site	All Site	15-20
2.	Hand Sanitization activity of workers at the site	Regular at site	All Site	20-20
3.	Mask Distribution	Fortnightly	All Site	All worker
4.	Office & Labor Camp Disinfection Activity	25.04.2023	Labour camp	30
5.	Workmen training on COVID-19 awareness	20.04.2023	STP	20
6.	Display of Signage for Covid-19 Awareness	Permanent	STP, WTP	30
7.	Thermal screening of workers at the site	Regular at site	All Site	10-15
8.	Hand Sanitization activity of workers at the site	Regular at site	All Site	20-25
9.	Mask Distribution	Twice per month	All Site	All worker
10.	Office & Labor Camp Disinfection Activity	25.04.2023	Labour camp	20
11.	Workmen training on COVID-19 awareness	20.04.2023	STP	35
12.	Display of Signage for Covid-19 Awareness	Permanent	STP, WTP	20
13.	Health Check-up Camp	No Activity		
14.	Labour Day AWARENESS		Labour Camp	50
15.	Thermal screening of workers at the site	Regular at site	All Site	15-20
16.	Hand Sanitization activity of workers at the site	Regular at site	All Site	20-20
17.	Mask Distribution	Twice per month	All Site	All worker
18.	Office & Labor Camp Disinfection Activity	25.06.2023	Labour camp	30
19.	Workmen training on COVID-19 awareness	20.06.2023	STP	20
20.	Display of Signage for Covid-19 Awareness	Permanent	STP, WTP	30
21.	Thermal screening of workers at the site	Regular at site	All Site	95
22.	Hand Sanitization activity of workers at the site	Regular at site	All Site	95
23.	Mask Distribution	Twice per month	All Site	100
24.	Office & Labor Camp Disinfection Activity	18.07.2023	Labour camp	30
25.	Workmen training on COVID-19 awareness	15.07.2023	STP	20
26.	Display of Signage for Covid-19 Awareness	Permanent	STP, WTP	30
27.	Thermal screening of workers at the site	Regular at site	All Site	15-20
28.	Hand Sanitization activity of workers at the site	Regular at site	All Site	20-20
29.	Mask Distribution	Twice per month	All Site	All worker

S. No.	Activities done	Date	Location	No. of Participants
30.	Office & Labor Camp Disinfection Activity	No Activity	Labour camp	
31.	Display of Signage for Covid-19 Awareness	Permanent	STP, WTP	
32.	Health Check-up Camp	26-08-2023	Labour Camp	50
33.	Thermal screening of workers at the site	Regular at site	All Site	15-20
34.	Hand Sanitization activity of workers at the site	Regular at site	All Site	20-20
35.	Mask Distribution	Twice per month	All Site	All worker
36.	Workmen training on COVID-19 awareness	21-09-2023	NABIPURA	10
37.	Display of Signage for Covid-19 Awareness	Permanent	STP, WTP	
Kuchaman				
1.	Health Check-up Camp	05.04.2023	Kuchaman	22
2.	Health Check-up Camp	07.04.2023	Kuchaman	10
3.	Health Check-up Camp	14.04.2023	Kuchaman	20
4.	Health Check-up Camp	15.04.2023	Kuchaman	12
5.	Health Check-up Camp	17.04.2023	Kuchaman	14
6.	Health Check-up Camp	22.04.2023	Kuchaman	10
7.	Health Check-up Camp	24.04.2023	Kuchaman	05
8.	Health Check-up Camp	25.04.2023	Kuchaman	25
9.	Health Check-up Camp	26.04.2023	Kuchaman	12
10.	Mask Distribution	April 2023	Kuchaman	Maximum
11.	Dis-infection Activity at office, workmen camps, guest houses and sites	April 2023	Kuchaman	Maximum
12.	Workmen training on COVID-19 awareness	April 2023	Training centre camp & Office ,Kuchaman	100
13.	Display of Signage for Covid-19 Awareness	April 2023	All site areas	Maximum
14.	Separate Isolation facilities for workmen & staffs	April 2023	Workmen camps	N/A
15.	Health Check-up Camp	03.05.2023	Kuchaman	16
16.	Health Check-up Camp	04.05.2023	Kuchaman	15
17.	Health Check-up Camp	08.05.2023	Kuchaman	21
18.	Health Check-up Camp	11.05.2023	Kuchaman	16
19.	Health Check-up Camp	12.05.2023	Kuchaman	8
20.	Health Check-up Camp	13.05.2023	Kuchaman	14
21.	Health Check-up Camp	19.05.2023	Kuchaman	13
22.	Health Check-up Camp	20.05.2023	Kuchaman	9
23.	Health Check-up Camp	23.05.2023	Kuchaman	11
24.	Health Check-up Camp	24.05.2023	Kuchaman	12
25.	Health Check-up Camp	25.05.2023	Kuchaman	18
26.	Mask Distribution	May 2023	Kuchaman	Maximum
27.	Dis-infection Activity at office, workmen camps, guest houses and sites	May 2023	Kuchaman	Maximum
28.	Workmen training on COVID-19 awareness	May 2023	Training centre camp & Office ,Kuchaman	100
29.	Display of Signage for Covid-19 Awareness	May 2023	All site areas	Maximum
30.	Separate Isolation facilities for workmen & staffs	May 2023	Workmen camps	N/A
31.	Health Check-up Camp	01.06.2023	Kuchaman	08
32.	Health Check-up Camp	02.06.2023	Kuchaman	18
33.	Health Check-up Camp	03.06.2023	Kuchaman	12
34.	Health Check-up Camp	05.06.2023	Kuchaman	13
35.	Health Check-up Camp	15.06.2023	Kuchaman	21
36.	Health Check-up Camp	17.06.2023	Kuchaman	17
37.	Health Check-up Camp	19.06.2023	Kuchaman	14
38.	Health Check-up Camp	20.06.2023	Kuchaman	8

S. No.	Activities done	Date	Location	No. of Participants
39.	Health Check-up Camp	22.06.2023	Kuchaman	21
40.	Health Check-up Camp	28.06.2023	Kuchaman	07
41.	Mask Distribution	June 2023	Kuchaman	Maximum
42.	Dis-infection Activity at office, workmen camps, guest houses and sites	June 2023	Kuchaman	Maximum
43.	Workmen training on COVID-19 awareness	June 2023	Training centre camp & Office ,Kuchaman	100
44.	Display of Signage for Covid-19 Awareness	June 2023	All site areas	Maximum
45.	Separate Isolation facilities for workmen & staffs	June 2023	Workmen camps	N/A
46.	Health Check-up Camp	04.07.2023	Kuchaman	10
47.	Health Check-up Camp	07.07.2023	Kuchaman	28
48.	Health Check-up Camp	08.07.2023	Kuchaman	21
49.	Health Check-up Camp	10.07.2023	Kuchaman	9
50.	Health Check-up Camp	15.07.2023	Kuchaman	14
51.	Health Check-up Camp	18.07.2023	Kuchaman	13
52.	Health Check-up Camp	24.07.2023	Kuchaman	10
53.	Health Check-up Camp	25.07.2023	Kuchaman	15
54.	Health Check-up Camp	26.07.2023	Kuchaman	15
55.	Mask Distribution	July 2023	Kuchaman	Maximum
56.	Dis-infection Activity at office, workmen camps, guest houses and sites	July 2023	Kuchaman	Maximum
57.	Workmen training on COVID-19 awareness	July 2023	Training centre camp & Office ,Kuchaman	135
58.	Display of Signage for Covid-19 Awareness	July 2023	All site areas	Maximum
59.	Separate Isolation facilities for workmen & staffs	July 2023	Workmen camps	N/A
60.	Health Check-up Camp	07.08.2023	Kuchaman	26
61.	Health Check-up Camp	08.08.2023	Kuchaman	17
62.	Health Check-up Camp	12.08.2023	Kuchaman	20
63.	Health Check-up Camp	16.08.2023	Kuchaman	17
64.	Health Check-up Camp	17.08.2023	Kuchaman	21
65.	Health Check-up Camp	18.08.2023	Kuchaman	15
66.	Health Check-up Camp	21.08.2023	Kuchaman	18
67.	Health Check-up Camp	22.08.2023	Kuchaman	10
68.	Health Check-up Camp	23.08.2023	Kuchaman	11
69.	Health Check-up Camp	26.08.2023	Kuchaman	09
70.	Mask Distribution	August 2023	Kuchaman	Maximum
71.	Dis-infection Activity at office, workmen camps, guest houses and sites	August 2023	Kuchaman	Maximum
72.	Workmen training on COVID-19 awareness	August 2023	Training centre camp & Office ,Kuchaman	155
73.	Display of Signage for Covid-19 Awareness	August 2023	All site areas	Maximum
74.	Separate Isolation facilities for workmen & staffs	August 2023	Workmen camps	N/A
75.	Health Check-up Camp	07.09.2023	Kuchaman	17
76.	Health Check-up Camp	09.09.2023	Kuchaman	05
77.	Health Check-up Camp	11.09.2023	Kuchaman	13
78.	Health Check-up Camp	12.09.2023	Kuchaman	18
79.	Health Check-up Camp	14.09.2023	Kuchaman	11
80.	Health Check-up Camp	18.09.2023	Kuchaman	15
81.	Health Check-up Camp	19.09.2023	Kuchaman	17
82.	Health Check-up Camp	20.09.2023	Kuchaman	13
83.	Health Check-up Camp	21.09.2023	Kuchaman	18
84.	Health Check-up Camp	23.09.2023	Kuchaman	10

S. No.	Activities done	Date	Location	No. of Participants
85.	Health Check-up Camp	27.09.2023	Kuchaman	13
86.	Mask Distribution	September 2023	Kuchaman	Maximum
87.	Dis-infection Activity at office, workmen camps, guest houses and sites	September 2023	Kuchaman	Maximum
88.	Workmen training on COVID-19 awareness	September 2023	Training centre camp & Office ,Kuchaman	185
89.	Display of Signage for Covid-19 Awareness	September 2023	All site areas	Maximum
90.	Separate Isolation facilities for workmen & staffs	September 2023	Workmen camps	N/A
Mandawa				
1.	Mask Distribution	On Daily Basis	All locations	All Staffs
2.	Thermal screening at the site	On Daily Basis	All locations	All Staffs
3.	Sanitization activity at the site	On Daily Basis	All locations	All Staffs
4.	Dis-infection Activity at the site	On Daily Basis	All locations	-
Khetri				
1.	Mask Distribution	On Daily Basis	All Zones	All Staffs
2.	Thermal screening at the site	On Daily Basis	All locations	All Staffs
3.	Sanitization activity at the site	On Daily Basis	All locations	All Staffs
4.	Dis-infection Activity at the site	On Daily Basis	All locations	-
Didwana				
1.	Mask Distribution	On Daily Basis	All Zones	All Staffs
2.	Thermal screening at the site	On Daily Basis	All Zones	All Staffs
3.	Sanitization activity at the site	On Daily Basis	All Zones	All Staffs
4.	Dis-infection Activity at the site	On Daily Basis	All Zones	-
Makrana				
1.	Mask Distribution	On Daily Basis	All Zones	All Staffs
2.	Thermal screening at the site	On Daily Basis	All Zones	All Staffs
3.	Sanitization activity at the site	On Daily Basis	All Zones	All Staffs
4.	Dis-infection Activity at the site	On Daily Basis	All Zones	-
Ladnu				
1.	Mask Distribution	On Daily Basis	All Zones	All Staffs
2.	Thermal screening at the site	On Daily Basis	All Zones	All Staffs
3.	Sanitization activity at the site	On Daily Basis	All Zones	All Staffs
4.	Dis-infection Activity at the site	On Daily Basis	All Zones	-

Photographs showing COVID-19: Awareness, Prevention and Control Compliance by Towns during April 2023 to September 2023

 Abu Road Jodhpur Division Rajasthan Altitude: 206.7m	 134° SE Hawai Patti Road Akra Bhatta Jodhpur Division Rajasthan Altitude: 198.2m Index number: 7147 May 22, 2023 11:54:47 AM
Thermal Screening of workers at site (Abu Road)	Disinfection Activity at Site (Abu Road)
 Gandhi Nagar Abu Road Jodhpur Division Rajasthan 08-Apr-2023 9:13:21 am	 34° N Apr 20, 2023 04:59 AM
Labor Meeting about Awareness & Safety of COVID-19 (Abu Road)	Medical Health Checkup of site workers (Abu Road)
 175° S Manpur Jodhpur Division Rajasthan Altitude: 219.8m Index number: 6997 Apr 29, 2023 10:50:48 AM	 293° NW Hawai Patti Road Abu Road Jodhpur Division Rajasthan Altitude: 221.0m Speed: 0.0km/h Index number: 5249 Apr 25, 2023 11:06:15 AM
Glucose Distribution to Site Workers (Abu Road)	COVID 19 awareness campaign (Abu Road)
 Unnamed Road, Rajasthan 307001, India Sirohi Rajasthan India 2023-04-26 (Wed) 12:08 (pm) 100°F	
Thermal Screening activity of Workers at site (Sirohi)	Face Mask Distribution to workers at Site (Sirohi)



Labor Meeting about Awareness & Safety of COVID-19 (Sirohi)



Medical Health Checkup of workers at Site (Sirohi)



Thermal Screening and Hand Sanitization activities of workers at site (Ratangarh)



Medical Health Check-up of workers at site (Ratangarh)



Labor Meeting about Awareness & Safety of COVID-19 (Ratangarh)



Disinfection Activity at Site (Ratangarh)



Glucose Distribution to Workers at Site (Ratangarh)

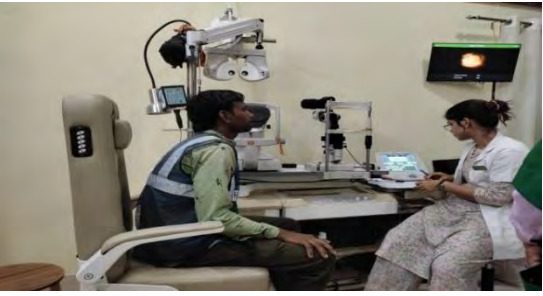


HIV/ AIDS Training camp at Ratangarh

Thermal Screening and Hand Sanitization activities of workers at site (Fatehpur)		Disinfection Activity at Site (Fatehpur)
Medical Health Checkup of site workers at Site (Fatehpur)	Labor Meeting about Awareness & Safety of COVID-19 (Fatehpur)	
Glucose Distribution to Site Workers (Fatehpur)	HIV/ AIDS Training camp (Fatehpur)	
Thermal Screening of workers at site (Laxmangarh)	Hand Sanitization activity of workers at site (Laxmangarh)	

 7 Apr 2022 15:58:53 Mr. Singh	
Medical Health Checkup of site workers (Laxmangarh)	Labor Meeting about Awareness & Safety of COVID-19 (Laxmangarh)
	
Disinfection Activity at Site (Laxmangarh)	Glucose Distribution to Site Workers (Laxmangarh)
 Sardarshahr Rajasthan India 36°C	 Sardarshahr Rajasthan India 36°C
Thermal Screening of workers at site (Sardarshahr)	Hand Sanitization activity of workers at site (Sardarshahr)
 Sardarshahr Rajasthan India 33°C	
Face Mask Distribution to workers at Site (Sardarshahr)	Labor Meeting about Awareness & Safety of COVID-19 (Sardarshahr)

 Sardarshahr, Rajasthan, India G-2, Bico Industrial Area, Sardarshahr, Rajasthan 331403, India Lat 28.425261° Long 74.478355° 17/04/23 10:36 AM GMT +05:30	 Shot on OnePlus Downloaded by Triple Camera 2023.06.06 17:54
Disinfection Activity at Site (Sardarshahar)	Medical Health Checkup of workers at site (Sardarshahar)
	 Unnamed Road, Rajasthan 331403, India Chura Rajasthan India 29°C 84°F 2023-04-08(Sat) 10:11(AM)
Glucose Distribution to Workers at Site (Sardarshahar)	HIV/ AIDS Training camp at Sardarshahar
	
Thermal Screening at site On Daily Basis (Pratapgarh)	Hand Sanitization activity at site on daily Basis (Pratapgarh)
 Pratapgarh, Rajasthan, India 2QHF+472, Fortress, Pratapgarh, Rajasthan 312605, India Lat 24.027882° Long 74.77303° 20/04/23 02:34 PM GMT +05:30	 Pratapgarh, Rajasthan, India 2QHF+472, Fortress, Pratapgarh, Rajasthan 312605, India Lat 24.027882° Long 74.77303° 20/04/23 02:37 PM GMT +05:30
Face Mask Distribution to workers at Site (Pratapgarh)	Labor Meeting about Awareness & Safety of COVID-19 (Pratapgarh)

	 Pratapgarh, Rajasthan, India 2QH9+J38, Pratapgarh, Rajasthan 312605, India Lat 24.029158° Long 74.768093° 11/04/23 02:22 PM GMT +05:30
Medical Health Checkup of site workers (Pratapgarh)	Glucose Distribution to Site Workers (Pratapgarh)
 Banswara, Rajasthan, India HC4M+F4M, Shyam Colony, Banswara, Rajasthan 327001, India Lat 23.556498° Long 74.432736°	 Dhamaniya, Rajasthan, India HC39+2Q, Dhamaniya, Rajasthan 327001, India Lat 23.568165° Long 74.417619°
Thermal Screening at site On Daily Basis (Banswara)	Hand Sanitization activity at site On Daily Basis (Banswara)
 Banswara, Rajasthan, India HF63+F6Q, NABI PURA, Madar Colony, Banswara, Rajasthan 327001, India Lat 23.561607° Long 74.452314° 27/04/23 11:43 AM GMT +05:30	 Banswara, Rajasthan, India HC4J+P9C, Shyam Colony, Banswara, Rajasthan 327001, India Lat 23.557044° Long 74.431191°
Labor Meeting about Awareness & Safety of COVID-19 at Banswara	Face Mask Distribution to workers at Site (Banswara)
	 Banswara, Rajasthan, India GPK5+3RV, Rishi Kuni, Banswara, Bhandariya Rural, Rajasthan 327001, India Lat 23.546054° Long 74.458462° 26/08/23 09:22 AM GMT +05:30
Hand Sanitization of workers at Site (Kuchaman)	Medical Health Checkup of site workers (Banswara)

GPS Map Camera Kuchaman City, Rajasthan, India KUBER COMPLEX STATION ROAD NEAR SBI BANK, 4VW5+59R, Kuchaman City, Rajasthan 341508, India Lat 27.145372° Long 74.858438° 25/04/23 09:14 PM GMT +05:30	4VW5+59R, Kuchaman City, Rajasthan 341508, India Kuchaman City Rajasthan India 2023-09-14(Thu) 12:47(pm) 36°C 97°F
Medical Health Check-up of workers at Site (Kuchaman)	Disinfection Activity at Site (Kuchaman)
Ladnu, Rajasthan, India 4VW5+59R, Ladnu, Rajasthan 341508, India Lat 27.145372° Long 74.858438° 25/04/23 09:14 PM GMT +05:30	
Disinfection Activity (Ladnu)	Medical Health Check-up of workers at Site (Ladnu)
Thermal Screening of workers at site (Makrana)	Hand Sanitization activity of workers at Site (Makrana)
Medical Health Check-up of workers at Site (Makrana)	Disinfection Activity at Site Makrana (Makrana)



Thermal Screening and Hand Sanitization activities of workers at Site (Didwana)



Medical Health Checkup of site workers (Didwana)



Disinfection Activity at Site (Didwana)



Thermal Screening of workers at site (Mandawa)



Hand Sanitization activity of workers at site (Mandawa)



Thermal Screening at site On Daily Basis (Khetri)



Hand Sanitization activity of workers at site (Khetri)

Appendix 11: ENVIRONMENTAL MONITORING RESULTS DURING APRIL 2023 TO SEPTEMBER 2023 IN RSTDSP

Ambient Air Quality Standards

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/m³)	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

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	18.05.2023 to 22.05.2023	78.25	39.27	7.98	14.36	310
	Construction Site JEn Campus		69.15	39.24	8.12	15.63	300
	Construction Site AEn Campus		72.35	40.14	8.24	15.28	290
	Construction Site Nr. Polo Ground		67.35	37.58	7.35	13.84	320
	Construction Site Nr. Lahoty Store Yard		60.45	33.47	7.84	12.47	280
2.	RSTDIP/PRT/01						
	Pratapgarh Town						
	Near Reliance petrol pump	13/06/2023 to 16/06/2023	83.14	37.92	8.02	25.63	680
	Sewerage Treatment Plant (STP)		80.14	35.65	8.16	22.78	710
	Sewerage pumping Station (SPS)		77.82	32.14	7.95	23.33	690
3	RSTDIP/SHR-ABR/01						
	Abu Road Town						
	Manpur CWR	20/06/2023 to 21/06/2023	71.76	30.56	9.76	14.85	790
	Manpur Workmen Camp		68.65	27.43	8.76	12.87	610
	Near STP & WTP Santpur		70.43	31.64	8.32	13.43	680
	Near Office (Sigha Colony)		67.76	28.43	8.65	12.43	650
4	RSTDIP/KMN/02						
	Kuchaman Town						
	STP Near Bus Stand		67.0	43.0	8.2	32.0	430
	L&T Labor Colony		61.0	35.0	8.4	28.0	420

	L&T Site 600 KL, Near PHED office	20.06.2023 to 27.06.2023	71.0	46.0	9.8	34.0	470
	SPS Site 2 Near RUIDP Office		66.0	36.0	7.2	24.0	380
	Pipe Laying Site - 1 Lawariyawas		79.0	50.0	11.0	30.0	450
	SPS Site 1		64.0	39.0	7.6	22.0	370
	Pipe Laying Site – 2 New Colony		75.0	40.0	8.8	36.0	400
5	RSTDIP/SHR-ABR/01						
	Sirohi Town						
	Angore WTP	21/06/2023 to 22/06/2023	70.54	33.67	13.54	19.43	610
	Near Workmen Camp (STP 5.0 MLD)		78.42	36.56	11.63	18.43	680
	Kalika Ji Pump House		64.78	31.23	12.42	18.67	710
	CRMC Building		62.53	28.87	10.34	18.32	630
6	RSTDIP/MDW/03						
	Mandawa Town						
	SPS - 1 (PHED Campus) Besides SPS Site	22.06.2023 to 24.06.2023	70.21	33.47	9.23	17.18	650
	CWR Site - 1		76.18	37.66	10.64	21.25	580
	STP Site - 1		74.60	31.51	10.25	18.95	690
	Pipe Laying Site (Dumra Ki Dhani)		79.13	35.71	11.06	19.61	760
7	RSTDIP/LDN-DID-MKN/01						
	Makrana Town						
	SPS 2.3 MLD Site	23.06.2023 to 24.06.2023	69.5	38.1	BDL < 6	22.4	250
	STP 7.7 MLD Site		74.8	42.8	6.8	31.1	290
	SPS 2.1 MLD Site		83.3	50.0	7.4	34.2	350
	Pipe Laying Site, Matavar Road		78.6	43.7	7.0	30.6	330
8	RSTDIP/SRD/01						
	Sardarshahar Town						
	STP – 1 (2.3 MLD) South Campus	23/06/2023 to 26/06/2023	68.76	30.43	8.13	15.32	690
	STP – 2 (3.4 MLD) North Campus		71.92	30.74	11.72	18.82	670
	PHED Campus (CWR 2400 KL)		76.52	28.02	10.52	22.82	740
	Pipe Laying Zone - 1		68.72	29.43	8.32	16.83	650
	1.6 MLD STP (Pre Construction Activity)		70.12	31.27	10.78	21.82	630
	MWPS Zone - 2		68.32	31.23	10.67	16.45	660
9	RSTDIP/LDN-DID-MKN/01						
	Didwana Town						
	STP 3 MLD Site	25.06.2023 to 26.06.2023	62.3	37.5	BDL < 6	24.5	190
	Pipe Laying Site		65.1	35.0	BDL < 6	20.7	240
	SPS 1.7 MLD Site		58.8	33.3	BDL < 6	18.2	160
	SPS 1.3 MLD Site		68.5	41.2	6.5	22.0	220
10	RSTDIP/LDN-DID-MKN/01						

	Ladnu Town						
	STP -1 (5.5 MLD) Site	27.06.2023 to 29.06.2023	63.2	36.8	BDL < 6	26.3	200
	STP -1 (2.4 MLD) Site		57.4	35.7	BDL < 6	15.9	140
	Pipe Laying Site, 1 Near Shiv Temple		70.5	37.5	6.9	25.1	280
	Pipe Laying Site, 2 Near Manglam Hospital		76.2	47.8	7.2	28.4	310
11	RSTDIP/BNS/04						
	Banswara Town						
	AEn (PHED) Campus WTP	27/06/2023 to 29/06/2023	52.1	32.4	20.3	22.6	328
	Kagdi WTP		49.3	25.3	12.5	13.1	236
	STP Site		52.4	28.1	12.5	16.2	346
	SPS @ Nathelav		59.7	34.5	13.3	16.1	367
	Gandhiu Murti Road		70.2	34.7	18.4	22.6	512
	Pratapgarh Road		61.3	32.7	20.2	23.6	403
12	RSTDIP/RTG-FTP-LXG/01						
	Ratangarh Town						
	STP 3.8 MLD Ratangarh	27/06/2023 to 29/06/2023	66.54	25.53	9.78	19.33	540
	STP 6.1 MLD Ratangarh		65.79	28.79	8.86	16.36	560
	SPS 3.8 MLD		65.44	26.29	7.09	16.20	560
	SPS 4.6 MLD		63.77	24.73	9.77	15.80	510
	Workman Camp Ratangarh		62.75	22.17	8.20	17.80	590
	RJ Guest house Ratangarh		60.96	23.45	7.44	13.92	540
13	RSTDIP / RTG-FTP-LXG / 01						
	Fatehpur Town						
	At Nawalgarh Railway Puliya	29/06/2023 to 30/06/2023	62.47	21.18	6.17	15.70	560
	Naribari Road 4.3 MLD STP		60.61	21.18	8.82	17.68	540
	Workmen Camp Bikaner Puliya		65.16	21.18	9.71	16.89	550
	Behind Dholi Sati Temple		62.93	18.64	8.82	14.90	570
	0.6 MLD SPS fatehpur		64.07	22.03	8.82	20.07	520
14	RSTDIP / RTG-FTP-LXG / 01						
	Laxmangarh Town						
	RMC & MCC Office Mansi	29/06/2023 to 30/06/2023	62.25	21.73	5.43	16.11	520
	Bad ka Balaji		63.96	23.47	8.15	15.90	590
	AEn Campus		64.36	23.47	7.52	20.59	570
	Store Yard & Labor Camp		61.65	26.08	7.52	18.16	560

Noise Monitoring Standards

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

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	18.05.2023 to 22.05.2023	53.5	45.3
	Construction Site JEn Campus		56.7	47.5
	Construction Site AEn Campus		57.1	45.7
	Construction Site Nr. Polo Ground		56.7	46.3
	Construction Site Nr. Lahoty Store Yard		54.5	43.5
2	RSTDIP/PRT/01			
	Pratapgarh Town			
	Near Reliance petrol pump	13/06/2023 to 16/06/2023	61.0	45.0
	Sewerage Treatment Plant (STP)		62.0	43.2
	Sewerage pumping Station (SPS)		58.0	42.0
3	RSTDIP/SHR-ABR/01			
	Abu Road Town			
	Manpur CWR	20.06.2023 to 21.06.2023	56.76	42.12
	Manpur Workmen Camp		53.76	43.21
	Near STP & WTP Santpur		58.64	43.65
	Near Office (Sigha Colony)		56.43	42.23
4	RSTDIP/KMN/02			
	Kuchaman Town			
	STP Near Bus Stand	20.06.2023 to 27.06.2023	67.0	43.0
	L&T Labor Colony		61.0	35.0
	L&T Site 600 KL, Near PHED office		71.0	46.0
	SPS Site 2 Near RUIDP Office		66.0	36.0
	Pipe Laying Site - 1 Lawariyawas		79.0	50.0
	SPS Site 1		64.0	39.0

S.No.	Package / Town / Monitoring Location	Monitoring date	Noise Level Leq (dB(A))	
			Day time	Night time
	Pipe Laying Site – 2 New Colony		75.0	40.0
5	RSTDIP/SHR-ABR/01			
	Sirohi Town			
	Angore WTP	21/06/2023 to 22/06/2023	70.54	33.67
	Near Workmen Camp (STP 5.0 MLD)		78.42	36.56
	Kalika Ji Pump House		64.78	31.23
	CRMC Building		62.53	28.87
6	RSTDIP/MDW/03			
	Mandawa Town			
	SPS - 1 ((PHED Campus) Besides SPS Site	22.06.2023 to 24.06.2023	57.4	46.3
	CWR Site - 1		52.6	44.1
	STP Site - 1		57.2	46.4
	Pipe Laying Site (Dumra Ki Dhani)		53.1	44.9
7	RSTDIP/LDN-DID-MKN/01			
	Makrana Town			
	SPS 2.3 MLD Site	23.06.2023 to 24.06.2023	69.5	38.1
	STP 7.7 MLD Site		74.8	42.8
	SPS 2.1 MLD Site		83.3	50.0
	Pipe Laying Site, Matavar Road		78.6	43.7
8	RSTDIP/SRD/01			
	Sardarshahar Town			
	STP – 1 (2.3 MLD) South Campus	23/06/2023 to 26/06/2023	51.23	41.45
	STP – 2 (3.4 MLD) North Campus		50.43	40.65
	PHED Campus (CWR 2400 KL)		52.91	42.43
	Pipe Laying Zone - 1		53.65	41.89
	1.6 MLD STP (Pre-Construction Activity)		53.65	44.21
	MWPS Zone - 2		54.76	43.89
9	RSTDIP/LDN-DID-MKN/01			
	Didwana Town			
	STP 3 MLD Site	25.06.2023 to 26.06.2023	62.3	37.5
	Pipe Laying Site		65.1	35.0
	SPS 1.7 MLD Site		58.8	33.3
	SPS 1.3 MLD Site		68.5	41.2
10	RSTDIP/LDN-DID-MKN/01			

S.No.	Package / Town / Monitoring Location	Monitoring date	Noise Level Leq (dB(A))	
			Day time	Night time
	Ladnu Town			
	STP -1 (5.5 MLD) Site	27.06.2023 to 29.06.2023	63.2	36.8
	STP -1 (2.4 MLD) Site		57.4	35.7
	Pipe Laying Site, 1 Near Shiv Temple		70.5	37.5
	Pipe Laying Site, 2 Near Manglam Hospital		76.2	47.8
11	RSTDIP/BNS/04			
	Banswara Town			
	AEn (PHED) Campus WTP	27/06/2023 to 29/06/2023	52.1	32.4
	Kagdi WTP		49.3	25.3
	STP Site		52.4	28.1
	SPS @ Nathelav		59.7	34.5
	Gandhiu Murti Road		70.2	34.7
	Pratapgarh Road		61.3	32.7
12	RSTDIP / RTG-FTP-LXG / 01			
	Ratangarh Town			
	STP 3.8 MLD Ratangarh	27/06/2023 to 29/06/2023	66.54	25.53
	STP 6.1 MLD Ratangarh		65.79	28.79
	SPS 3.8 MLD		65.44	26.29
	SPS 4.6 MLD		63.77	24.73
	Workman Camp Ratangarh		62.75	22.17
	RJ Guest house Ratangarh		60.96	23.45
13	RSTDIP / RTG-FTP-LXG / 01			
	Fatehpur Town			
	At Nawalgarh Railway Puliya	29/06/2023 to 30/06/2023	62.47	21.18
	Naribari Road 4.3 MLD STP		60.61	21.18
	Workmen Camp Bikaner Puliya		65.16	21.18
	Behind Dholi Sati Temple		62.93	18.64
	0.6 MLD SPS fatehpur		64.07	22.03
14	RSTDIP / RTG-FTP-LXG / 01			
	Laxmangarh Town			
	RMC & MCC Office Mansi	29/06/2023 to 30/06/2023	62.25	21.73
	Bad ka Balaji		63.96	23.47
	AEn Campus		64.36	23.47
	Store Yard & Labor Camp		61.65	26.08

Ground Water Quality Monitoring Results

S.No	Parameters	Units	RSTDIP/KTR/03		
			Khetri Date of Sampling: 18.05.2023		
			Tube well Near Lahoty Store yard	Construction Water of STP Site	AEN Campus
1	pH	-	7.10	7.18	7.61
2	Total Dissolved solids	mg/l	500.0	485.0	200.0
3	Total Hardness as CaCO ₃	mg/l	320.0	300.0	184.0
4	Chlorides as Cl	mg/l	145.98	133.98	43.98
5	Fluorides (as F)	mg/l	0.60	0.72	0.38
6	Sulphate as SO ₄	mg/l	68.42	63.28	24.10
7	Nitrate as NO ₃	mg/l	24.10	25.14	14.12
8	Total Alkalinity as CaCO ₃	mg/l	240.0	250.0	145.0
9	Iron as Fe	mg/l	0.14	0.18	0.06
10	Chromium Hexavalent	mg/l	BDL (< 0.03)	BDL (< 0.03)	BDL (< 0.03)
11	Dissolved Oxygen (DO)	mg/l	6.6	5.9	6.0
12	Phenolic compounds	mg/l	BDL	BDL	BDL
13	Total Phosphate	mg/l	BDL	BDL	BDL
14	Arsenic (as As)	mg/l	BDL	BDL	BDL
15	Cadmium (as Cd)	mg/l	BDL	BDL	BDL
16	Copper as Cu	mg/l	0.16	0.12	0.11
17	Lead (as Pb)	mg/l	BDL	BDL	BDL
18	Manganese as Mn	mg/l	BDL	BDL	BDL
19	Zinc as Zn	mg/l	0.26	0.30	0.24
20	Mercury (as Hg)	mg/l	BDL	BDL	BDL

BDL - Below Detectible limit

Ground Water Quality Monitoring Results
Continuation Sheet ---2

S.No	Parameters	Units	RSTDIP/PRT/01	
			Pratapgarh Date of Sampling: 13.06.2023	
			Near Government District Hospital	Sewerage Treatment Plant (STP)
1	pH	-	7.38	7.18
2	Total Dissolved solids	mg/l	479.70	753.50
3	Alkalinity as CaCO ₃	mg/l	204.16	342.38
4	Total Hardness as CaCO ₃	mg/l	171.99	305.90
5	Nitrate as NO ₃	mg/l	11.21	31.18
6	Chlorides as Cl	mg/l	75.32	84.74
7	Sulphate as SO ₄	mg/l	31.64	25.20
8	Fluorides (as F)	mg/l	0.10	0.15
9	Iron as Fe	mg/l	0.04	0.08
10	Arsenic (as As)	mg/l	B.D.L.	0.01
11	Mercury (as Hg)	mg/l	B.D.L.	B.D.L.
12	Lead (as Pb)	mg/l	B.D.L.	B.D.L.
13	Cadmium (as Cd)	mg/l	B.D.L.	B.D.L.
14	Copper as Cu	mg/l	B.D.L.	B.D.L.
15	Zinc as Zn	mg/l	B.D.L.	B.D.L.
16	Manganese as Mn	mg/l	B.D.L.	B.D.L.
17	Phenolic compounds	mg/l	B.D.L.	B.D.L.
18	Dissolved Oxygen (DO)	mg/l	5.50	5.80
19	Phosphate as P	mg/l	B.D.L.	B.D.L.
20	Hexavalent Chromium as Cr ⁺⁶)	mg/l	B.D.L.	B.D.L.

BDL - Below Detectible limit

**Ground Water Quality Monitoring
Continuation Sheet ---3**

S.No	Parameters	Units	RSTDIP/SHR-ABR/01			
			Abu Road (Date of Sampling : 20.06.2023)			
			Manpur CWR	Manpur Workmen camp	Near STP WTP Santpur	Near Office (Sigha Colony)
1	pH @ 25°C	-	7.89	8.02	7.31	7.87
2	Conductivity @ 25°C		1254.0	1334.0	1581.0	1454.0
3	Total Dissolved solids	mg/l	843.0	853.0	985.0	967.0
4	Alkalinity		224.54	227.76	218.43	263.43
5	Total Hardness as CaCO ₃	mg/l	235.4	239.2	233.76	350.62
6	Nitrate as NO ₃	mg/l	19.17	18.76	15.78	11.78
7	Chlorides as Cl	mg/l	422.45	417.43	414.78	341.23
8	Sulphate as SO ₄	mg/l	130.42	134.32	125.76	138.63
9	Calcium (as Ca)	mg/l	74.75	74.45	74.56	125.65
10	Magnesium (as Mg)	mg/l	11.88	12.99	11.60	9.02
11	Fluorides (as F)	mg/l	0.73	0.75	0.79	0.71
12	Iron as Fe	mg/l	0.26	0.30	0.32	0.30
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	Hexavalent 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)	BDL(<0.01)	0.20	0.20
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
Continuation Sheet ---4**

S. No	Parameters	Units	RSTDIP/KMN/02			
			Kuchaman			
			Date of Sampling : 22.06.2023			
			Bore well at Farm House Near STP Site	Bore well at Labor Colony	L&T Site 600 KL, PHED Office	Bore well at Near RUIDP Office
1	pH @ 25°C	-	8.34	7.88	8.12	8.5
2	Total Dissolved solids	mg/l	1360.0	2048.0	1574.0	1482.0
3	Total Alkalinity	mg/l	408.0	255.0	308.0	502.0
4	Total Hardness as CaCO ₃	mg/l	200.0	394.0	186.0	33.0
5	Chlorides as Cl	mg/l	305.0	841.0	339.0	206.0
6	Sulphate as SO ₄	mg/l	68.0	76.0	34.0	19.0
7	Nitrate as NO ₃	mg/l	44.0	43.0	45.0	42.0
8	Fluorides (as F)	mg/l	0.23	BDL (< 0.1)	0.43	0.89
9	Dissolved Oxygen (DO)	mg/l	6.6	6.9	6.7	6.8
10	Iron as Fe	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
11	Phosphate as PO ₄	mg/l	BDL (< 0.03)	BDL (< 0.03)	BDL (< 0.03)	BDL (< 0.03)
12	Hexavalent Chromium as Cr ⁺⁶)	mg/l	BDL (< 0.03)	BDL (< 0.03)	BDL (< 0.03)	BDL (< 0.03)
13	Zinc as Zn	mg/l	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)
14	Lead (as Pb)	mg/l	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)
15	Cadmium (as Cd)	mg/l	BDL (< 0.002)	BDL (< 0.002)	BDL (< 0.002)	BDL (< 0.002)
16	Copper as Cu	mg/l	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)
17	Arsenic as As	mg/l	BDL (< 0.01)	BDL (< 0.01)	BDL (< 0.01)	BDL (< 0.01)
18	Mercury (as Hg)	mg/l	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)
19	Manganese as Mn	mg/l	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)
20	Phenolic Compounds as C ₆ H ₅ OH	mg/l	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)

BDL - Below Detectible limit

**Ground Water Quality Monitoring
Continuation Sheet ---5**

S.No	Parameters	Units	RSTDIP/SHR-ABR/01			
			Sirohi (Date of Sampling: 22.06.2023)			
			WTP 9 MLD at Angore PHED Campus	Near Workmen camp STP 5.0 MLD	Kalika Ji Pump House	CRMC Building
1	pH @ 25°C	-	7.60	7.78	7.69	7.82
2	Conductivity @ 25°C		1893	2025	1556.0	192.0
3	Total Dissolved solids	mg/l	1193.0	1315.0	1006.0	122.0
4	Alkalinity		190.43	210.54	173.54	40.43
5	Total Hardness as CaCO ₃	mg/l	213.45	220.67	194.43	68.34
6	Nitrate as NO ₃	mg/l	11.34	12.63	11.23	0.83
7	Chlorides as Cl	mg/l	435.14	410.23	419.4	32.54
8	Sulphate as SO ₄	mg/l	109.43	142.11	122.32	4.11
9	Calcium (as Ca)	mg/l	70.42	73.32	66.23	20.65
10	Magnesium (as Mg)	mg/l	9.17	9.17	7.09	4.09
11	Fluorides (as F)	mg/l	0.70	0.85	0.65	0.20
12	Iron as Fe	mg/l	0.21	0.30	0.29	7.64
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	0.20	0.11	0.20	0.24
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	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
Continuation Sheet ---6**

S.No	Parameters	Units	RSTDIP/MDW/03		
			Mandawa (Date of Sampling: 22.06.2023)		
			STP 01	CWR site 01	SPS Site 01
1	pH	-	7.45	7.96	7.81
2	Total Hardness as CaCO ₃	mg/l	160.0	250.0	210.0
3	Total Alkalinity as CaCO ₃	mg/l	463.5	571.5	517.50
4	Chlorides as Cl	mg/l	45.31	281.9	286.93
5	Total Dissolved solids	mg/l	594.60	1045.4	995.60
6	Sulphate as SO ₄	mg/l	34.39	91.72	95.54
7	Fluorides (as F)	mg/l	0.43	0.68	0.80
8	Nitrate as NO ₃	mg/l	17.50	30.48	29.40
9	Iron as Fe	mg/l	0.23	0.45	0.35
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 As)	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	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)

BDL - Below Detectible limit

**Ground Water Quality Monitoring
Continuation Sheet ---7**

S.No	Parameters	Units	RSTDIP/SRD/01					
			Sardarshahar					
			Date of Sampling: 23.06.2023					
			STP – 1 (2.3 MLD) South Campus (Bore well Water)	STP – 2 (3.4 MLD) North Campus	PHED Campus (CWR 2400 KL)	Pipe Laying Zone - 1	1.6 MLD STP (Pre- Construction Activity)	MWPS Zone - 2
1	pH	-	7.61	7.83	7.80	7.64	7.65	7.79
2	Total Dissolved solids	mg/l	272.0	1342.0	132.4	724.0	970.0	920.0
3	Alkalinity as CaCO ₃	mg/l	145.64	519.43	87.93	280.0	387.0	391.0
4	Total Hardness as CaCO ₃	mg/l	144.5	403.4	124.6	295.3	327.5	323.4
5	Nitrate as NO ₃	mg/l	9.68	20.32	1.22	10.78	9.64	9.92
6	Chlorides as Cl	mg/l	63.45	330.12	21.67	190.03	289.54	291.32
7	Sulphate as SO ₄	mg/l	40.65	214.34	9.56	105.23	110.32	111.64
8	Fluorides (as F)	mg/l	0.50	0.78	0.65	0.61	0.64	0.66
9	Iron as Fe	mg/l	0.12	0.18	0.08	0.17	0.18	0.23
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)	0.34	0.29	0.44	0.46
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 (< 0.0005)	BDL (< 0.0005)	BDL (< 0.0005)	BDL (< 0.0005)	BDL (< 0.0005)	BDL (< 0.0005)
18	Dissolved Oxygen (DO)	mg/l	5.8	5.8	5.9	6.1	6.2	5.8
19	Phosphate as P	mg/l	BDL (< 0.02)	0.48	0.45	0.28	0.44	0.44
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
Continuation Sheet ---8**

S.No	Parameters	Units	RSTDIP/BNS/04			
			Banswara			
			Date of Sampling: 28.06.2023			
			SPS at Pratapgarh Road	SPS at Nathelav	WTP at AEn Campus	STP Site
1	pH @ 25°C	-	7.6	7.4	8.2	7.7
2	Total Dissolved solids	mg/l	252.0	504.0	220.0	406.0
3	Total Hardness as CaCO ₃	mg/l	124.0	312.0	112.0	232.0
4	Total Alkalinity	mg/l	80.0	92.0	72.0	96.0
5	Chlorides as Cl	mg/l	52.0	116.0	60.0	58.0
6	Dissolved Oxygen (DO)	mg/l	5.7	5.8	6.0	5.9
7	Fluorides (as F)	mg/l	0.28	0.52	0.34	0.41
8	Sulphate as SO ₄	mg/l	64.0	73.0	40.6	43.2
9	Iron as Fe	mg/l	0.16	0.21	0.13	0.11
10	Nitrate as NO ₃	mg/l	8.25	9.6	7.21	9.3
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)	0.12	0.14	0.12
13	Zinc	mg/l	0.13	0.14	0.12	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	0.17	0.24

BDL - Below Detectible limit

**Ground Water Quality Monitoring
Continuation Sheet ---9**

S.No	Parameters	Units	RSTDIP/RTG-FTP-LXG/01			
			Ratangarh			
			Date of Sampling : 28.06.2023			
			Labor Camp	RJ Guest House	STP 3.8 MLD	STP 6.1 MLD
1	pH @ 25°C	-	7.51	7.81	7.61	7.65
2	Turbidity	NTU	BDL (< 1.0)	BDL (< 1.0)	BDL (< 1.0)	BDL (< 1.0)
3	Calcium (as Ca)	mg/l	24.17	35.33	31.61	44.63
4	Chlorides as Cl	mg/l	69.93	29.13	147.64	60.44
5	Electrical Conductivity	µS/cm	295.0	280.0	465.0	425.0
6	Fluorides (as F)	mg/l	0.25	0.31	0.48	0.31
7	Magnesium (as Mg)	mg/l	BDL (<2.0)	5.64	2.36	5.63
8	Nitrate as NO ₃	mg/l	2.17	2.01	1.52	1.70
9	Sulphate as SO ₄	mg/l	10.75	28.16	62.50	56.0
10	Total Alkalinity	mg/l	52.78	44.66	198.94	97.44
11	Total Dissolved solids	mg/l	170.0	195.0	307.0	280.0
12	Total Hardness as CaCO ₃	mg/l	BDL (< 5.0)	111.36	88.16	134.56
13	Copper as Cu	mg/l	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)
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	Colour	Hazen	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)
18	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable
19	Sodium as Na	mg/l	12.10	52.10	52.10	36.10
20	Potassium as K	mg/l	1.60	2.10	2.10	2.90
21	Phosphorous	mg/l	BDL(<0.2)	BDL(<0.2)	BDL(<0.2)	BDL(<0.2)

BDL - Below Detectible limit

**Ground Water Quality Monitoring
Continuation Sheet ---10**

S. No	Parameters	Units	RSTDIP/RTG-FTP-LXG/01				RSTDIP/RTG-FTP-LXG/01			
			Fatehpur(Date of Sampling : 29.06.2023)				Laxmangarh (Date of Sampling : 29.06.2023)			
			Behind Dholi Sati Temple	4.3 MLD STP Nari bari road	Workmen Camp	0.6 MLD SPS Fatehpur	RMC Office Mansi	AT Bad Ke Balaji	AEn campus	Store Yard Labor Camp
1	pH @ 25°C	-	7.11	7.91	7.59	7.91	7.89	7.61	7.65	8.41
2	Turbidity	NTU	BDL (< 1.0)	BDL (< 1.0)	BDL (< 1.0)	BDL (< 1.0)	BDL (< 1.0)	BDL (< 1.0)	BDL (< 1.0)	BDL (< 1.0)
3	Calcium (as Ca)	mg/l	100.42	48.35	76.24	72.52	9.29	37.19	70.66	29.75
4	Chlorides as Cl	mg/l	89.36	301.11	126.27	89.36	17.48	48.56	73.82	97.13
5	Electrical Conductivity	µS/cm	785.0	1420.0	1758.0	514.0	140.0	325.0	490.0	530.0
6	Fluorides (as F)	mg/l	0.31	0.25	0.44	0.28	BDL (<0.2)	0.25	0.31	0.37
7	Magnesium (as Mg)	mg/l	10.15	11.27	5.64	4.51	BDL (<2.0)	7.89	2.26	5.64
8	Nitrate as NO ₃	mg/l	5.17	10.28	7.52	8.88	BDL (<0.5)	1.94	1.56	2.01
9	Sulphate as SO ₄	mg/l	92.45	85.05	83.33	98.37	24.83	25.93	16.0	26.0
10	Total Alkalinity	mg/l	207.06	454.72	495.32	198.94	12.18	117.74	153.44	247.66
11	Total Dissolved solids	mg/l	540.0	850.0	915.0	631.0	90.20	220.0	327.0	350.0
12	Total Hardness as CaCO ₃	mg/l	292.32	167.04	213.44	180.96	BDL (< 5.0)	125.28	185.60	97.44
13	Sodium as Na	mg/l	55.60	75.20	40.10	31.10	BDL(<1.0)	10.21	32.10	14.10
14	Potassium as K	mg/l	3.96	4.59	5.58	4.10	BDL(<0.5)	2.91	2.61	1.50
15	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)
16	Iron as Fe	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)
17	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)
18	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)
19	Colour	Hazen	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)
20	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
21	Phosphorous	mg/l	BDL(<0.2)	BDL(<0.2)	BDL(<0.2)	BDL(<0.2)	BDL(<0.2)	BDL(<0.2)	BDL(<0.2)	BDL(<0.2)

BDL - Below Detectible limit

Surface water Quality Monitoring Results

S.No	Parameters	Units	RSTDIP/PRT/01	
			Pratapgarh Date of Sampling: 13.06.2023	
			Near Reliance Petrol Pump	Sewerage Pumping Station
1	pH	-	8.25	7.18
2	Turbidity	NTU	BDL (<5)	BDL (<5)
3	Total Dissolved solids	mg/l	729.40	741.15
4	Total Suspended Solids	mg/l	22.0	38.75
5	Chlorides as Cl	mg/l	104.50	121.57
6	Fluorides (as F)	mg/l	0.12	0.15
7	Sulphate as SO ₄	mg/l	38.16	36.30
8	Nitrate as NO ₃	mg/l	36.73	29.05
9	Iron as Fe	mg/l	0.08	0.08
10	Total Hardness as CaCO ₃	mg/l	105.13	313.62
11	Calcium (as Ca)	mg/l	24.28	56.72
12	Magnesium (as Mg)	mg/l	10.69	41.40
13	Sodium (as Na)	mg/l	108.42	90.18
14	Potassium (as K)	mg/l	48.78	40.52
15	Zinc as Zn	mg/l	0.12	0.08
16	Hexavalent Chromium as Cr ⁺⁶)	mg/l	BDL	BDL
17	Copper as Cu	mg/l	0.07	0.05
18	Manganese as Mn	mg/l	BDL	BDL
19	Aluminium (as Al)	mg/l	BDL	BDL
20	Arsenic (as As)	mg/l	BDL	BDL
21	Boron (as B)	mg/l	BDL	BDL
22	Lead (as Pb)	mg/l	BDL	BDL
23	Cadmium (as Cd)	mg/l	BDL	BDL
24	Mercury (as Hg)	mg/l	BDL	BDL
25	Total residual chlorine	mg/l	BDL	BDL
26	Dissolved Oxygen (DO)	mg/l	3.9	4.3
27	Biochemical Oxygen Demand 3 days @ 25°C	mg/l	4.9	3.8
28	Chemical Oxygen Demand	mg/l	16.0	16.02
29	Cyanide (as CN)	mg/l	BDL	BDL
30	Selenium (as Se)	mg/l	BDL	BDL

BDL - Below Detectible limit

Surface water Quality Monitoring Results
Continuation Sheet ---2

S.No	Parameters	Units	RSTDIP/LDN-DID-MKN/01
			Didwana Date of Sampling: 26.06.2023
			Pond Nearby 3 MLD STP Site
1	Turbidity	NTU	BDL (<5)
2	Total Suspended Solids	mg/l	22.0
3	pH	-	8.25
4	Hexavalent Chromium as Cr ⁺⁶)	mg/l	BDL
5	Potassium (as K)	mg/l	48.78
6	Dissolved Oxygen (DO)	mg/l	3.9
7	Biochemical Oxygen Demand 3 days @ 25°C	mg/l	4.9
8	Aluminium (as Al)	mg/l	BDL
9	Total Dissolved solids	mg/l	729.40
10	Total residual chlorine	mg/l	BDL
11	Cyanide (as CN)	mg/l	BDL
12	Total Hardness as CaCO ₃	mg/l	105.13
13	Chlorides as Cl	mg/l	104.50
14	Sulphate as SO ₄	mg/l	38.16
15	Nitrate as NO ₃	mg/l	36.73
16	Fluorides (as F)	mg/l	0.12
17	Calcium (as Ca)	mg/l	24.28
18	Magnesium (as Mg)	mg/l	10.69
19	Copper as Cu	mg/l	0.07
20	Iron as Fe	mg/l	0.08
21	Manganese as Mn	mg/l	BDL
22	Zinc as Zn	mg/l	0.12
23	Boron (as B)	mg/l	BDL
24	Arsenic (as As)	mg/l	BDL
25	Mercury (as Hg)	mg/l	BDL
26	Lead (as Pb)	mg/l	BDL
27	Cadmium (as Cd)	mg/l	BDL
28	Selenium (as Se)	mg/l	BDL
29	Sodium (as Na)	mg/l	108.42
30	Chemical Oxygen Demand	mg/l	16.0

BDL – Below Detectible limit

Surface Water Quality Monitoring Results
Continuation Sheet ---2

S.No	Parameters	Units	RSTDIP/BNS/04
			Banswara Date of Sampling: 28.06.2023
			Kagdi Lake
1	pH	-	8.4
2	Turbidity	NTU	0.3
3	Total Dissolved solids	mg/l	186.0
4	Total Suspended Solids	mg/l	BDL (<5.0)
5	Total Hardness as CaCO ₃	mg/l	120.0
6	Calcium (as Ca)	mg/l	32.0
7	Magnesium (as Mg)	mg/l	9.72
8	Chlorides as Cl	mg/l	42.0
9	Dissolved Oxygen (DO)	mg/l	6.0
10	Total residual chlorine	mg/l	BDL (< 0.2)
11	Fluorides (as F)	mg/l	0.52
12	Sulphate as SO ₄	mg/l	18.3
13	Iron as Fe	mg/l	0.17
14	Sodium as Na	mg/l	24.8
15	Potassium (as K)	mg/l	2.72
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	0.24
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	0.25
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

Soil Quality Results – Khetri Town

Sr. No	Parameters	Unit of Measurements	RSTDIP/KTR/03		
			Khetri (Date of Sampling : 18.05.2023)		
			STP Construction Site	Construction Site Near AEn Campus	Construction Site Near Lahoty Store Yard
1	pH (at 25°C)	-	7.72	7.94	7.82
2	Electrical Conductivity	mS/cm	0.149	0.142	0.145
3	Soil Texture	-	Sandy	Sandy	Sandy
4	Moisture content	%	0.38	0.32	0.36
5	Calcium Carbonate (as CaO ₃)	%	14.21	9.34	12.24
6	Bulk Density	gm/cc	1.46	1.20	1.50
7	Magnesium (as Mg)	mg/kg	32.14	26.24	38.14
8	Organic Matter	%	0.30	0.26	0.38
9	Sodium (as Na)	µg/ml	3.5	3.4	4.1
10	Potassium (as K)	µg/ml	4.8	4.4	3.8
11	Total Kjeldhal Nitrogen (as TKN)	%	0.04	0.03	0.02
12	Total Phosphorus (as p)	Kg/hect.	8.35	11.2	13.2

Soil Quality Results- Pratapgarh Town

Sr. No	Parameters	Unit of Measurements	RSTDIP/PRT/01	
			Pratapgarh (Date of Sampling : 13.06.2023)	
			Near Reliance petrol pump	Sewerage pumping Station (SPS)
1	pH (at 25°C)	-	8.04	7.98
2	Electrical Conductivity	mS/cm	496.32	502.74
3	Calcium (as Ca)	mg/kg	17.50	19.17
4	Magnesium (as Mg)	mg/kg	3.40	2.50
5	Sodium (as Na)	mg/kg	68.50	80.22
6	Potassium (as K)	Kg/hect.	60.50	65.43
7	Organic Carbon	%	0.62	0.65
8	Soil Texture	-	Sandy	Sandy
9	Total Nitrogen (as N)	Kg/hect.	320.17	365.71
10	Phosphorus (as p)	Kg/hect.	55.23	52.04
11	Moisture content	%	14.00	12.60
12	Permeability	cm/S	8.50	9.00
13	Oil & Grease	mg/kg	B.D.L.	B.D.L.

BDL - Below Detectible limit

Soil Quality Results – Mandawa Town

Sr. No	Parameters	Unit of Measurements	RSTDIP/MDW/03		
			Mandawa (Date of Sampling : 22.06.2023)		
			SPS Site 01	CWR Site 01	STP Site 01
1	pH (at 25°C)	-	8.34	8.46	8.26
2	Electrical Conductivity	mS/cm	0.495	0.529	0.458
3	Calcium (as Ca)	mg/kg	48.10	52.63	60.72
4	Sodium (as Na)	mg/kg	35.21	37.34	38.05
5	Potassium (as K)	Kg/hect.	269.95	296.41	32.29
6	Organic Carbon	%	0.74	0.81	0.64
7	Magnesium (as Mg)	mg/kg	24.32	36.48	48.64
8	Available Nitrogen (as N)	Kg/hect.	236.80	233.68	236.80
9	Available Phosphorus (as p)	Kg/hect.	35.41	39.31	40.35
10	Moisture content	%	3.48	4.43	5.37
11	Permeability	cm/S	0.001289	0.00847	0.001059
12	Soil Texture	-	Sandy Loam	Sandy Loam	Sandy Loam
13	Oil & Grease	mg/kg	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)

Soil Quality Results- Banswara

Sr. No	Parameters	Unit of Measurements	RSTDIP/BNS/04		
			Banswara (Date of Sampling : 28.06.2023)		
			STP Site	Pump House Kagdi lake	SPS at Pratapgarh Roaad
1	pH (at 25°C)	-	8.4	8.1	8.1
2	Electrical Conductivity	mS/cm	0.389	0.561	0.401
3	Moisture content	%	20.46	30.46	23.48
4	Texture	-	Sandy Loam	Clay Loam	Sandy Loam
5	Calcium (as CaO)	mg/kg	1672.0	2226.0	1744.0
6	Magnesium as Mg	mg/kg	1026.0	1418.0	1346.0
7	Permeability	cm/sec	10 ⁻⁴	10 ⁻⁷	10 ⁻⁴
8	Sodium (as Na)	mg/kg	1264.0	1692.0	1122.0
9	Exchangeable Potassium (as K)	mg/kg	774.0	946.0	872.0
10	Phosphate	Kg/hac	23.0	28.0	30.0
11	Organic Matter	%	0.43	0.56	0.48
12	Total Nitrogen (as N)	mg/kg	142.0	168.0	150.0
13	Oil & Grease	mg/kg	BDL (< 1.0)	BDL (< 1.0)	BDL (< 1.0)

BDL - Below Detectible limit

Soil Quality Results – Sardarshahar Town

Sr. No	Parameters	Unit of Measurements	RSTDIP/SRD/01					
			Sardarshahar					
			Date of Sampling: 23.06.2023 & 24.06.2023					
			STP – 1 (2.3 MLD) South Campus	STP – 2 (3.4 MLD) North Campus	PHED Campus (CWR 2400 KL)	Pipe Laying Zone - 1	1.6 MLD STP (Pre-Construction Activity)	MWPS Zone - 2
1	pH (at 25°C)	-	8.30	8.24	7.90	8.30	7.95	7.60
2	E. Conductivity	mS/cm	0.372	0.385	0.432	0.277	0.426	0.422
3	Calcium (as Ca)	mg/kg	136.12	150.10	152.04	125.2	152.6	152.7
4	Magnesium (as Mg)	mg/kg	91.32	95.78	97.60	78.10	101.4	101.8
5	Sodium (as Na)	mg/kg	94.54	101.60	88.43	84.5	84.45	81.12
6	Potassium (as K)	Kg/hect.	165.5	154.67	163.55	157.2	164.15	160.32
7	Organic Matter	%	0.55	0.55	0.53	0.54	0.55	0.56
8	Soil Texture	-	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
9	Total Kjeldhal Nitrogen (as TKN)	Kg/hect.	342.32	358.76	374.6	348.4	366.3	367.2
10	Available Phosphorus	Kg/hect.	34.54	31.45	34.65	33.1	32.76	3.76
11	Moisture content	%	8.13	4.70	5.30	3.85	4.60	4.90
12	Permeability	cm/S	0.002	0.0008	0.0009	0.0007	0.0007	0.0006
13	Oil & Grease	mg/kg	7.45	6.16	5.94	4.94	6.32	5.32

Soil Quality Results – Ratangarh Town

Sr. No	Parameters	Unit of Measurements	RSTDIP/RTG-FTP-LXG/01				
			Ratangarh				
			Date of Sampling: 28.06.2023				
			STP 3.8 MLD	STP 6.1 MLD	SPS 3.8 MLD	Labor Camp	SPS 4.6 MLD
1	pH (at 25°C)	-	7.91	7.61	7.95	8.05	8.14
2	Bulk Density	Gm/cc	1.40	1.44	1.38	1.30	1.43
3	Available Phosphorous	kg/ha	26.66	21.27	26.39	32.59	24.51
4	Potassium (as K)	kg/ha	158.58	151.88	160.82	131.78	136.25
5	Electrical Conductivity	mS/cm	0.275	0.345	0.347	0.249	0.350
6	Calcium (as Ca)	mg/kg	566.53	576.49	753.16	604.39	790.36
7	Magnesium (as Mg)	mg/kg	59.24	50.78	35.54	45.70	148.39
8	Organic Matter	%	0.59	0.34	0.50	0.59	0.70
9	Moisture content	%	1.30	1.30	1.30	1.30	1.30
10	Sodium (as Na)	mg/kg	74.78	70.79	74.78	84.75	80.77
11	Chloride	mg/kg	131.59	164.48	197.38	164.48	131.59
12	Total Kjeldhal Nitrogen (TKN)	mg/kg	110.19	125.94	157.42	188.91	173.16
13	Specific Gravity	-	1.74	2.61	2.71	3.10	2.21
14	Soil Texture	mg/kg	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam

Soil Quality Results – Makrana, Didwana & Ladnu Towns

Sr. No	Parameters	Unit of Measurements	RSTDIP/LDN-DID-MKN/01							
			Makrana Date of Sampling: 24.06.2023			Didwana Date of Sampling: 25.06.2023			Ladnu Date of Sampling: 27.06.2023	
			STP 7.7 MLD Site	SPS 2.3 MLD Site	SPS 2.1 MLD Site	SPS 1.3 MLD	STP 3 MLD Site	SPS 1.7 MLD Site	STP 5.5 MLD Site	STP 2.4 MLD Site
1	pH (at 25°C)	-	8.78	8.54	8.71	8.64	9.57	9.43	8.87	8.59
2	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)
3	Sand	%	89.0	73.0	91.0	90.0	65.0	89.0	87.0	86.0
4	Slit	%	6.0	18.0	5.0	7.0	15.0	6.0	6.0	8.0
5	Texture	-	Sand	Sandy Loam	Sand	Sand	Sandy Loam	Sand	Sand	Sand
6	Exchangeable Sodium (as Na)	mg/kg	138.0	320.0	88.0	102.0	932.0	688.0	163.0	98.0
7	Clay	%	5.0	9.0	4.0	3.0	20.0	5.0	7.0	6.0
8	Electrical Conductivity	µS/cm	157.0	252.0	79.0	134.0	732.0	729.0	175.0	117.0
9	Total Nitrogen (as N)	mg/kg	162.0	208.0	118.0	129.0	275.0	151.0	146.0	128.0
10	Organic Matter	%	0.32	0.47	0.29	0.26	0.52	0.34	0.22	0.31
11	Permeability	cm/hr	4.9	4.6	5.0	5.0	3.9	4.8	4.7	4.8
12	Calcium (as CaO)	mg/kg	6250	4600	2100	6850	5150	4250	4950	1900
13	Exchangeable Magnesium (as Mg)	mg/kg	780.0	1110	870.0	960.0	1260	1020	750.0	510.0
14	Exchangeable Potassium (as K)	mg/kg	111.0	276.0	83.0	80.0	802.0	5.0	114.0	102.0
15	Phosphate	mg/kg	12.0	18.0	13.0	21.0	11.0	9.6	10.0	9.9
16	Moisture content	%	20.0	23.0	17.0	19.0	28.0	21.0	19.0	20.0

BDL - Below Detectible limit

Soil Quality Results – Abu Road & Sirohi Towns

Sr. No	Parameters	Unit of Measurements	RSTDIP/SHR-ABR/01				RSTDIP/SHR-ABR/01			
			Abu Road (Date of Sampling: 20.06.2023)				Sirohi (Date of Sampling: 22.06.2023)			
			Manpur CWR	Manpur Workmen camp	Near STP WTP Santpur	Near Office (Sigha Colony)	WTP 9 MLD at Angore PHED Campus	Near Workmen camp STP 5.0 MLD	Kalika Ji Pump House	CRMC Building
1	pH (at 25°C)	-	7.59	7.70	7.71	7.89	7.60	8.03	7.81	7.87
2	Electrical Conductivity	mS/cm	0.387	0.361	0.366	0.365	0.348	0.365	0.378	0.381
3	Soil Texture	-	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy
4	Calcium (as Ca)	mg/kg	406.54	423.72	404.63	410.78	414.32	407.24	395.24	390.71
5	Sodium (as Na)	mg/kg	80.54	80.56	93.54	81.67	74.32	81.45	65.43	88.34
6	Potassium (as K)	mg/kg	165.43	183.34	180.54	165.87	190.45	156.42	164.78	152.76
7	Organic Matter	%	0.59	0.64	0.56	0.55	0.59	0.60	0.64	0.61
8	Magnesium (as Mg)	mg/kg	90.67	81.34	87.54	79.76	89.20	80.91	79.11	81.54
9	Available Nitrogen (as N)	Kg/hect.	273.65	280.84	266.83	270.43	320.23	280.43	264.87	271.32
10	Phosphate	mg/kg	22.14	23.45	18.91	18.78	26.0	21.87	22.76	22.87
11	Moisture content	%	3.23	3.13	3.89	3.58	4.56	4.90	3.80	3.43
12	Permeability	cm/S	0.0007	0.0007	0.0008	0.0007	0.0008	0.0008	0.0009	0.0009
13	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 - Below Detectible limit

Soil Quality Monitoring –Kuchaman Town

Sr. No	Parameters	Unit of Measurements	RSTDIP/KMN/02				
			Kuchaman (Date of Sampling : 21.06.2023 & 22.06.2023)				
			STP Near Bus Stand	L&T Labor Colony	L&T Site 600 KL, PHED Office	SPS Site -2, Near RUIDP Office	SPS Site 1
1	pH (at 25°C)	-	9.13	8.14	8.25	8.27	8.11
2	Oil & Grease	mg/kg	BDL (< 5.0)	BDL (< 5.0)	BDL (< 5.0)	BDL (< 5.0)	BDL (< 5.0)
3	Sand	%	86.0	94.0	90.0	92.0	80.0
4	Slit	%	10.0	4.0	6.0	5.0	15.0
5	Texture	-	Sand	Sand	Sand	Sand	Loamy Sand
6	Exchangeable Sodium (as Na)	mg/kg	425.0	76.0	75.0	117.0	186.0
7	Clay	%	4.0	2.0	4.0	3.0	5.0
8	Electrical Conductivity	μS/cm	475.0	62.0	58.0	159.0	178.0
9	Total Nitrogen (as N)	mg/kg	274.0	134.0	190.0	146.0	179.0
10	Organic Matter	%	0.45	0.28	0.35	0.31	1.1
11	Permeability	cm/hr	4.3	5.0	4.7	4.9	4.0
12	Calcium (as CaO)	mg/kg	5500	1000	1100.0	1400.0	18400
13	Exchangeable Magnesium (as Mg)	mg/kg	180.0	120.0	300.0	480.0	1140
14	Exchangeable Potassium (as K)	mg/kg	66.0	49.0	77.0	84.0	263.0
15	Phosphate	mg/kg	14.0	9.8	16.0	9.2	79.0
16	Moisture content	%	23.0	16.0	20.0	18.0	26.0

BDL - Below Detectible limit (BDL value to be confirmed)

Soil Quality Results – Fatehpur & Laxmangarh Towns

Sr. No	Parameters	Unit of Measurements	RSTDIP/RTG-FTP-LXG/01							
			Fatehpur Date of Sampling: 29.06.2023				Laxmangarh Date of Sampling: 29.06.2023			
			At Nawalgarh Railway Station	4.3 MLD Naribari road	Workmen Camp	Behind Dholi Sati Temple	RMC & MCC office Mansi	Store Yard Labor Camp	At Bad ke Balaji	AEn Campus
1	pH (at 25°C)	-	8.11	8.11	8.91	7.61	7.91	8.11	7.61	7.61
2	Bulk Density	gm/cc	1.40	1.40	1.37	1.39	1.40	1.40	1.41	1.41
3	Available Phosphorous	Kg/hac	37.11	34.44	36.57	38.10	35.49	37.78	39.83	35.49
4	Potassium (as K)	Kg/hac	136.48	111.87	132.01	141.40	134.33	120.89	112.0	190.27
5	Electrical Conductivity	mS/cm	0.310	0.275	0.295	0.315	0.365	0.410	0.425	0.451
6	Calcium (as Ca)	mg/kg	139.47	158.07	120.88	167.37	148.77	130.17	111.58	120.88
7	Magnesium (as Mg)	mg/kg	45.13	29.90	60.37	51.90	46.83	46.83	23.13	62.62
8	Organic Matter	%	0.17	0.31	0.28	0.54	0.32	0.34	0.24	0.21
9	Moisture content	%	1.19	1.19	1.19	0.67	1.85	2.80	1.58	2.85
10	Sodium (as Na)	mg/kg	39.95	52.0	83.10	48.58	60.96	68.96	60.96	80.95
11	Chloride	mg/kg	131.59	164.48	98.69	131.59	116.55	155.41	116.55	116.45
12	Total Kjeldhal Nitrogen (as TKN)	mg/kg	173.23	125.99	110.24	125.94	94.45	78.71	125.94	110.19
13	Soil Texture	mg/kg	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam

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.: 0141-2721906, 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		Forward No	
21/12/2020		1000	
TL	DTL/EE	GIS	SDS
GRS	ES	PE	SCC
PC	ECM	PM	IF
CS	PS	4th Div	WCL
PC	CM	ENV	SOCIAL

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.

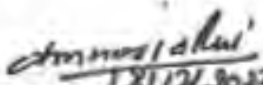
It is also directed that names and contact number of the concerned Safeguard and Safety Officer (SSO) of PIU, contractors, safeguard support staff of CMSC will be posted at all construction sites at visible locations.

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:- 18368-70

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 APRIL TO SEPTEMBER 2023PERIOD

1. Town: Abu Road

Contractor: Larsen & Toubro Construction Limited (L&T)

Duration: 1st April 2023 to 30th September 2023

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

2. Town: Sirohi**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

3. Town: Sardarshahar**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

4. Town: Ratangarh**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0



Environmental Monitoring Report

PUBLIC

Semestral Report: April 2023 – September 2023
March 2024

India: Rajasthan Secondary Towns Development Sector Project

Part 5 of 5: Appendix 13 (continued)

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

5. Town: Fatehpur**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

6. Town: Laxmangarh**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

7. Town: Pratapgarh**Contractor: M/s. Khilari Infrastructure Pvt. Ltd.****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

8. Town: Banswara**Contractor: BIPL-SC-HP Joint Venture****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	1	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	1	The mishap happened on dated 29.07.2023 after which a team consisting of SE-PMU, In-charge Banswara, SE- Vigilance PMU, Team Leader CMSC-02 and Contract Management Specialist, PMCBC was asked to reach the accidental site immediately. 2. An official Enquiry Committee constituted vide letter no 4763 dated 31.07.2023 consisting of following officials SE-PMU, In-charge Banswara, SE- Vigilance PMU, Team Leader CMSC-02 and Contract Management Specialist, PMCBC. As per committee findings There was overflow of rain water at recently constructed manhole chamber no 2002. To clear /empty the water overflow from the manhole, a tanker with suction machine was deployed at the manhole location. The suction pipe, which was connected to the equipment got broken	The rescue team of Nagar Parishad and fire brigade was called immediately and police was also informed, the rescue team took out the persons from man hole and was rushed to Mahatma Gandhi Hospital. Both persons named as (i) Michel son of Ramesh Bhuria, (ii) Sohanlal Son of Nathu were declared dead. The contractor paid compensation as an immediate relief to the dependents of both the deceased, amounting to Rs. 600,000 each on the 1st August 2023 (Rs. 1 lac cash and 5 lac through cheque). Afterwards, the insurance under the contractors WC policy was also claimed and the amount of insurance will be transferred to deceased dependents after the claim is settled. To prevent such recurrences in future under the RUIDP project works, Instructions was given by PMU to PIU/ contractor to follow safety measures. Safety training was organized for traffic control, using safety equipment, working in extraordinary situations like interconnection of old line with new laid sewer line, cleaning

			and the person holding the pipe dragged in the manhole, another worker nearby also got drowned in effort to save the first person. Both could not come out from the rain water filled manhole of depth 4.8 mtr.	of new laid sewer by human-less method; Training was also conducted for machinery drivers. Training was arranged for equipment operator/drivers for Manhole Cleaning by mechanical equipment's. Weekly Training Program will be organized on "risk and prevention" at risk working zone such as cleaning of manholes, working at depth/height/confined space, working during very cold/hot days, working during rainy season, working during festivals. Mock drills are also being organized time to time. RUIDP issued office order to all PIUs regarding Safety concerns in all project towns to be followed strictly and shall be further strengthened to restrict any health and safety incident. RUIDP has initiated the process for use of Robot for cleaning of Manholes.
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

9. Town: Kuchaman**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	1
September 2023	0	0	0	1

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	1	Cut Injury on the two fingers (Index and Middle finger) of the worker by steel rod mishandling at STP	First Aid Provided
6.	September 2023	1	Cut Injury on the fingers.	First Aid Provided

10. Town: Ladnu**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

11. Town: Didwana**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

12. Town: Makrana**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	2	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	2	Unsafe act observed from backhoe loader operator employed by SC RK Construction at makrana sewerage works during the routine site visit. Manhole cone was loaded on backhoe loader arm on 24 May 2023. Lifting Manhole cone by backhoe loader arm & allowing two more workmen inside the operator cabin which is designed for one operator is unsafe and could have resulted in incident. The backhoe loader was immediately stopped and manhole cone was transferred in a truck for safe Material Transportation.	Behavior-based training & Safe Material Handling Training given to backhoe loader operator & to all workmen including SC by section in charge & safety team. Warning letter with debit issued to SC RK Construction from the site management to prevent Re occurrence

			Near Miss Report occurred on 25/05/2023 around evening 10.30 pm at Makrana Cement godown. Cement godown Metal Tin Roof shed extensively damaged due to heavy rainfall with gusty wind of speed 50-70 KM per hour uprooted the part of the roof shed from the fixture and water entered inside the godown During Investigation it's found No "J bolt" with washer & nut not fixed to hold the Roof tin sheet intact with the Ledger pipe (Roof Batten) and poor truss structure designed winds tend to cause damage to the edges of the roof, or the areas of the roof that are already loose and these loose parts of the roof are easy targets because winds can more easily rip up loose tin sheds causes a chain reaction. Control measure: Truss structure to be refabricated as per design plan and J bolt to be provided & Connected between Roof tin sheet and Roof batten with equal intervals as per design which includes structural stability forecasting wind pressure and earthquake scenario and counterweight measures to be given on top of the wall structure along Tin roof for extra rigidity.	Remedial measures taken to prevent reoccurrence: Truss structure to be refabricated as per design plan and J bolt to be provided & Connected between Roof tin sheet and Roof batten with equal intervals as per design which includes structural stability forecasting wind pressure and earthquake scenario and counterweight measures to be given on top of the wall structure along Tin roof for extra rigidity. whole Tin Sheet Roof Structure has been removed and re fabrication & repairing work in progress.
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

13. Town: Khetri**Contractor: M/s Lahoty LNA (JV), Jaipur****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

14. Town: Mandawa**Contractor: LNA R&B JV****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	4	2
May 2023	0	0	3	1
June 2023	0	0	2	2
July 2023	0	0	1	0
August 2023	0	0	1	0
September 2023	0	0	1	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	4	Minor	Manoj
2.	May 2023	3	Minor	Manoj
3.	June 2023	2	Minor	Manoj
4.	July 2023	1	Minor	Manoj
5.	August 2023	1	Minor	Manoj
6.	September 2023	1	Minor	Manoj

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2023	2	Minor	Manoj
2.	May 2023	1	Minor	Manoj
3.	June 2023	2	Minor	Manoj
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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 April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	2	0
August 2023	0	0	1	1
September 2023	0	0	1	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	2	Minor	Manoj
5	August 2023	1	Minor	Manoj
6	September 2023	1	Minor	Manoj

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	1	Minor	Manoj
6	September 2023	0	0	0

2. Town: Shahpura (Jaipur)**Contractor: M/s Genius – LNA JV****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

3. Town: Bandi Kui**Contractor: M/s Genius – LNA JV****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	2	0
August 2023	0	0	1	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	2	Minor	Manoj
5.	August 2023	1	Minor	Manoj
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

4. Town: Jobner**Contractor: M/s Genius – LNA JV****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

5. Town: Bari**Contractor: M/S. MTS-EIEL (JV)****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

6. Town: Deeg**Contractor: M/S. MTS-EIEL (JV)****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

7. Town: Dausa**Contractor: M/S. MTS-EIEL (JV)****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

8. Town: Tijara**Contractor: M/S. MTS-EIEL (JV)****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

9. Town: Bhawani Mandi**Contractor: M/S. MTS-EIEL (JV)****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

10. Town: Shahpura (Bhilwara)**Contractor: M/S. MTS-EIEL (JV)****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

11. Town: Bhinder – Kanode**Contractor: M/S. MTS-EIEL (JV)****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

12. Town: Gangapur (Bhilwara)**Contractor: M/S. MTS-EIEL (JV)****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

13. Town: Pilibanga - Suratgarh**Contractor: M/S. MTS-EIEL (JV)****Duration: 1st April 2023 to 30th September 2023**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2023	0	0	0	0
May 2023	0	0	0	0
June 2023	0	0	0	0
July 2023	0	0	0	0
August 2023	0	0	0	0
September 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2023	0	0	0
2	May 2023	0	0	0
3	June 2023	0	0	0
4	July 2023	0	0	0
5	August 2023	0	0	0
6	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	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.	April 2023	0	0	0
2.	May 2023	0	0	0
3.	June 2023	0	0	0
4.	July 2023	0	0	0
5.	August 2023	0	0	0
6.	September 2023	0	0	0

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