



Environmental Monitoring Report

Project Number: 42267-031
Semestral Report: April 2022 – September 2022
February 2023

India: Rajasthan Secondary Towns Development Sector Project

Part 1 of 4: Main Report (Pages 1-155) and Appendices 1 - 2

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

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No. F3 (301)(87)/RUIDP/PMU/Env/ 13076-77

Date: 13.01.2023

**Country Director,
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Sub: Submission of Semi-annual Environmental Monitoring Report for the period April to September 2022 for RUIDP Phase-IV (RSTDSP)

Dear Sir,

In the matter of above cited subject, we are submitting herewith Semi-annual Environmental Monitoring Report (SEMR) for the period of April to September 2022 for Rajasthan Secondary Towns Development Sector Project (RSTDSP) for your perusal and approval.

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

Enclosure - As above

(Dr. Hemant Kumar Sharma)
Additional Project Director, RUIDP

No. F3 (301)(87)/RUIDP/PMU/Env/ 13076-77

Date: 13.01.2023

Copy to following for information and necessary action-

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(Kapil Gupta)
Deputy Project Director (T)

Semi-Annual Environmental Monitoring Report

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

India: Rajasthan Secondary Towns Development Sector Project (RSTDSP)

Implementation of Environmental Management and Monitoring Plan

Reporting Period: April 2022 to September 2022

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

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.

4. This Semi-Annual Environmental Monitoring Report for the period of April 2022 to September 2022; 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 2022, 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 agreement has been signed for Faecal Sludge and Septage Management (FSSM) project of one package of four towns, namely, Bandikui, Shahpura, Neem ka Thana and Jobner. Letter of Acceptance is issued for combined FSSM package of 9 towns, namely, Bari, Deeg, Pilibanga-Suratgarh, Shahpura- Bhilwara, Bhinder-Kanor, Gangapur, Bhawani Mandi, Dausa and Tijara, up to this reporting period.
7. IEEs of all 14 project towns have been approved by ADB and uploaded on ADB and RUDSICO_EAP portals. 10 IEEs, i.e., Ratangarh, Sardarshahar, Fatehpur, Laxmangarh, Abu Road, Sirohi, Pratapgarh, Kuchaman, Didwana and Makrana towns have been further updated as per approved design status and changed scope of works/locations. These updated IEEs have been approved by ADB and uploaded on web portals of ADB and RUDSICO-EAP.
8. During this reporting period, orientations for environmental safeguard requirements were done in 8 towns (Pratapgarh, Banswara, Khetri, Ladnu, Sardarshahar, Ratangarh, Abu Road & Sirohi) by CMSC-1&2 Environmental Safeguard Professional and Safeguard Support staff. Participants in these orientation programs were PIU, contractors, 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 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. Due diligence has been done in all towns, where construction works are started and it was verified that approved designs does not contain any additional areas or work components, as included in updated IEEs. Wherever project sites for Consumer Relations and Management Centres (CRMCs) are identified, impact assessments have been done and reported in respective towns' updated IEEs. Periodical monitoring is being conducted by environmental professional/safeguard support of CMSC 1&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 and WTPs; 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, thus total 22 new WTPs/STPs required CTE. Up to September 2022, total 21 applications for CTEs were submitted out of which 20 CTEs have been issued by RSPCB. Apart from STPs, 1 new Faecal Sludge Treatment Plant is also proposed in Kuchaman, which will also require CTE before start of construction works. There are existing 3 STPs proposed for upgradation and 2 WTPs proposed for rehabilitation; which will require consent to establish and consent to operate. Presently application of CTE for STPs of Sardarshahar and CTE for WTP of Banswara town are already submitted to RSPCB and their approval are awaited and the applications for CTE for WTPs of Banswara towns to seek consent are under process.

13. 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.

14. 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 2022 to September 2022)

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	PMU, Jaipur	Project Officer (Env)	9460553535
Mr. Rohit Kumar Jangid	PMU, Jaipur	Assistant Project Officer (Env)	96660642564
Mrs. Shruti Singh	PMU Jaipur	Focal Person Phase-IV (Env)	9461481054
Mr. Abhay Srivastava (Left the Project on 29.04.2022)	PMCBC, Jaipur	Environment Safeguard Specialist, PMCBC	Email: sse.pmcbsc@rstdsp.com Mob.-9530014474
Dr. Surendra Nagdali (Mobilized on dated 17.08.2022)	PMCBC, Jaipur	Environment Safeguard Specialist, PMCBC	Email: snagdali@yahoo.com Mob.-7678358158
Mr. Mohammada Saakira (mobilized on dated 26.05.2022)	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 mani.kumar@haskoningindia.co.in
PIUs and CMSCs at towns			
Mr. Surendra Godra, J.E.	PIU, Laxmangarh	SSO, PIU, Laxmangarh	9667518549
Mr. Deepak Mandan	PIU, Ratangarh	SSO, PIU, Ratangarh	9828117635
Mr. Dinesh Fogat	PIU, Sardarshahar	SSO, PIU, Sardarshahar	8949425829
Sh. Manoj Mittal, E.E.	PIU, Fatehpur	SSO, PIU, Fatehpur	8112206994
Mr. Ashok Kadwasara	PIU, Sirohi	SSO, PIU, Sirohi	9929355255
Mr. Sunil Bishnoi	PIU, Abu Road	SSO, PIU, Abu Road	9783767531
Mr. Prabhulal Bhabar	PIU, Banswara	SSO, PIU, Banswara	9413306238
Mr. Madan Lohar	PIU, Pratapgarh	SSO, PIU, Pratapgarh	8949383811
Mr. Jitendra Meena	PIU, Kuchaman	SSO, PIU, Kuchaman	9509139684
Mr. Jitendra Choudhary	PIU, Ladnun	SSO, PIU, Ladnun	9783433002
Mr. Jitendra Choudhary	PIU, Didwana	SSO, PIU, Didwana	9783433002
Mr. Gurtej Singh	PIU, Makrana	SSO, PIU, Makrana	9828529028
Mr. Devendra Saini	PIU, Mandawa	SSO, PIU, Mandawa	8005535181
Mr. Devendra Saini	PIU, Khetri	SSO, PIU, Khetri	8005535181
Mr. Afzal Ansari	Ratangarh/Laxmangarh /Sardarshahar/Fatehpur	Safeguard Support Environment CMSC-2	8299562677
Mr. Amit Kumar Chauhan	Abu Road/ Sirohi	Safeguard Support Environment CMSC-2	7683044085

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. Mandeep Walia	8826068677	Larsen & Toubro Ltd.
4.	Laxmangarh	Mr. Vinayak	9412313638	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. Robin Mapnani	9895978165	M/s Larsen & Toubro Ltd.
12.	Makrana	Mr. Robin Mapnani	9895978165	M/s Larsen & Toubro Ltd.
13.	Mandawa	Mr. Manoj Kumar Joya	9785868515	M/s L N Agarwal
14.	Khetri	Mr. Raj Meena	9166949686	M/s Lahoty

7. **Description of sub-projects:** 14 project 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. Location of all 14-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 /SHR-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 /PRT/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 /BNS/04	M/s. BIPL-SC-HP Joint Venture	11.02.2021	320,74,60,597.00	435,81,759.39	Construction Works of Water Supply production and Distribution Network improvements with house services connections for non-revenue water reduction and continuous water supply and providing Sewer network with house sewer connections along with construction of Sewage Treatment Plant & Sewerage Pumping Station and all allied works and operation services of entire system for 10 years
9	Khetri	RSTDIP /KTR/03	M/s. Lahoty-LNA (JV)	20.03.2021	79,63,81,137.50	109,93,392.45	Construction works of Water Supply Production and Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply and Providing Sewer Network with House connections, and

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	19,336,771.12	Construction Works of Sewer Network with House sewer connections, and construction of Sewage Treatment Plant & Sewage Pumping Station and allied Works and operation services of the entire system for 10 years at Makrana (Nagaur)
14	Ladnu		M/s Larsen & Toubro Limited,	05.05.2021	174,40,93,122.00	23,586,994.33	Construction Works of Sewer Network with House sewer connections, and construction of Sewage Treatment Plant and all allied Works and operation services of the entire system for 10 years at Ladnun (Nagaur)
Trenche-I Saving Subprojects under RSTDSP							
1	Combined package of four towns- Bandikui, Neem ka Thana, Shahpura and Jobner	RSTDSP/NKT-SHR-BAN-JOB/01	M/s Genius-LNA JV	21.06.2022	15,72,57,783.00	20,12,809.44	Design, Supply, Construction, Testing, Trial run and commissioning of FSTP with 5 years operation and maintenance at Neem Ka Thana, Shahpura (Jaipur), Bandikui, Jobner Rajasthan including supply, testing of vehicle mounted suction machine for faecal sludge desludging.

* 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 30.09.2022)

S. No.	Sub-Project Towns and Package Number	Status of Sub-Project				Type of Works*	Progress of Works**
		Design	Pre-Construct ion	Construction	Operation Phase		
1	Laxmangarh-RSTDIP/RTG-FTP-LXG/01			√		Water Supply	94%
2	Ratangarh-RSTDIP/RTG-FTP-LXG/01			√		Sewerage System	64%
3	Fatehpur-RSTDIP/RTG-FTP-LXG/01			√		Sewerage System	82%
4	Sardarshahar-RSTDIP/SRD/01			√		Sewerage System, Water Supply & Rehabilitation	53.96 %
5	Sirohi-RSTDIP/SHR-ABR/01			√		Sewerage System, Water Supply & Rehabilitation	57%
6	Abu Road-RSTDIP/SHR-ABR/01			√		Sewerage System, Water Supply & Rehabilitation	61 %
7	Pratapgarh-RSTDIP/PRT/01			√		Sewerage System	64 %
8	Banswara-RSTDIP/BNS/04			√		Sewerage System, Water Supply & Rehabilitation	59%
9	Khetri-RSTDIP/KTR/03			√		Sewerage System, Water Supply & Rehabilitation	36%
10	Mandawa-RSTDIP/MDW/03			√		Sewerage System, Water Supply & Rehabilitation	54.64 %
11	Kuchaman-RSTDIP/KMN/02			√		Sewerage System, Water Supply & Rehabilitation	39%
12	Ladnu-RSTDIP/LDN-DID-MKN/01			√		Sewerage System	18%
13	Didwana-RSTDIP/LDN-DID-MKN/01			√		Sewerage System	50%
14	Makrana RSTDIP/LDN-DID-MKN/01			√		Sewerage System	49%
Trenche-I Saving Subprojects under RSTDSP							
1	Combind package of four towns - Bandikui, Neem ka Thana, Shahpura and Jobner	√				FSSM	Work yet to start

* 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 30.09.2022**Town: Ratangarh**

Contract description	Cumulative Progress of works up to 30.09.2022		
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 Financial Progress- 48.00 % Cumulative Physical Progress- 64.00 % 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 (32.90 % 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-concreting of Raft , Center & Outer wall up to 3 mtr. completed & shuttering work selector zone concreting work is in progress. - PTU: PCC work for PTU completed. Admin Building: Footing work completed and Plinth beam work is in progress. Plinth beam PCC completed. - TEER- Raft Concrete Completed. Column casting up to last bracing completed and work is in progress. - PTU- Excavation & PCC completed - MPS- First lift Completed, Second lift work is in progress.
		STP -2 3.8 MLD Near NH-11 (39.20% physical progress)	3.80 MLD STP – 61.75 % Physical Progress: - SBR: Hydrotesting work is in progress. Mechanical and Electrical work is in progress. - PTU: Concrete work completed. - TEER: Hydrotesting work completed. - Admin Building: Painting work is under progress.

Contract description	Cumulative Progress of works up to 30.09.2022		
			Blower foundation & cable trench completed. • Guard Room: Brick work is in progress. • E&M work: • Decanter, Diffuser, Blower, Screen and pump procured and Transformer, Decanter & Blower installed. Raft for DG & foundation work is progress.
	SPS (2 No.)	SPS -1 3.8 MLD BSNL Office (35.50% physical progress)	• 3.80 MLD SPS- 57.15%: Physical Progress: • SUMP: Casting completed and finishing work is in progress. Civil work completed. • Ancillary Building: Plaster Completed. Finishing work is under progress. • Guard Room: - Plaster Completed. Finishing work is under progress. • EM & I pump, Transformer procured.
		SPS -2 4.6 MLD near Main Ginani (20% Physical progress)	• 4.60 MLD SPS: 43.90%: • Physical Progress: • 72% Civil work completed. • SUMP: Casting & sinking completed. Work is in progress. • Metering, PLC Room: Column work, Slab completed. Work is in progress. • Guard Room: casting of Raft completed.
	Lateral sewer (upto dia 300)	140.09 KM	• Supply: 121.22 Km • Laid:- 103.187 Km • Hydro Testing: 92.34 Km
	Outfall RCC Pipe	1.82 KM	• Supply: -Nil • Laid: -Nil
	PVC-U pipe(110 & 160 mm dia)	91.50 KM	• Supply: -76.59km • Laid:- 41.28 km

Contract description	Cumulative Progress of works up to 30.09.2022		
	Manholes (All types)	5485 Nos	• Installation Shallow MH: 3737 Nos
		3673	• Precast Supply: 1513 Nos • Laid precast MH: 981 Nos
	Inspection Chamber (A types)	11355 Nos	• Supply: 10337 Nos • Installation:- 9181 Nos
	HDPE pipe (PE 100 PN 6) Trenchless	14.63 KM	• Supply: 14.264 Km • Laid: - 10.926 Km
	D.I K-9 Pipes (Pumping Main)	3.50 KM	• Supply: - 3.327 Km • Laid: 1.761 Km
	D.I K7 Pipes	3.50 KM	• Supply: Nil • Laid: Nil
For Road Cutting & Restoration-			
	Road cutting	Road restoration Base Layer	Road restoration Top Layer
	• Kuccha: - 10.550 Km • CC- 30.762 Km • BT- 50.690Km • Interlock -12.641 Km • Total – 104.641 km	• Kuccha: - 10.550 Km • CC-28.814 Km • BT- 50.386 Km • Interlock – 12.245 Km - Total – 101.994 km	• Kuccha: - 10.550 Km • CC- 28.519 Km • BT- 48.391 Km • Interlock -12.192 Km • Total -99.653 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): - Overall 98.20% completed finishing work is under progress. CRMC-2: Suitable land for second CRMC was not available with Municipal Board and considering small size of town one CRMC building is sufficient to serve the purpose, so provision of second CRMC Building is proposed to be dropped.

Town: Laxmangarh

Contract description	Cumulative Progress of works up to 30.09.2022			
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 Financial Progress- 66.00 % Cumulative Physical Progress- 94.00% Stipulated Date of completion of Design Build- 21.06.2023	Water Supply:			
	Item	Scope of work	SIP Scope	Progress
	CWR	100 KL at AEn Campus	100 KL at AEn Campus	Hydro testing work completed.
		250 KL at Bad ke Balaji	250 KL at Bad ke Balaji	Hydro testing work completed.
	Distribution Network	150.303 km	161.04 km	a) Supply: - 160.00 Km b) Laid: - 160 Km c) Inter-connection- 128 d) Hydro Testing: 130.485 Km e) Commissioning: NIL
	House Service Connection	12200nos	12200 nos	a) Laying/Installation: 8995 Nos b) Testing: NIL c) Commissioning: NIL
	Domestic Water Meter	12200 Nos	12200 Nos	a) Supply: 8216 Nos (15 mm size) b) Laying/Installation: 2535 Nos c) Testing: NIL d) Commissioning: NIL
	Chlorination Rooms	02 nos	02 nos	1). <u>Bad Ke Balaji H/W</u> : EMI work in progress 2). <u>Aen Campus H/W</u> : EMI work in progress
	Metering	EMFM -16		a) Supply: 0 Nos. b) Installation: 0 Nos c) Testing: NIL d) Commissioning : NIL
		BFM -31		a) Supply: 0 Nos. b) Installation: 0 Nos c) Testing: NIL d) Commissioning : NIL
	Pressure Transmitters	55 Nos.		a) Supply: 0 Nos. b) Installation: 0 Nos c) Testing: NIL d) Commissioning : NIL
	No. of DMAs	14 Nos.	14	-
	For Road Cutting & Restoration-			
	Road cutting		Road restoration Base Layer	Road restoration Top Layer
	• Kuccha: -90.75 Km • CC- 71.83 Km • BT-3.00 Km • GSB/WMM: - 1.605 Km Total -165.59 km		• Kuccha: -90.75 Km • PCC- 68.45 Km • BT-3.00 Km • GSB/WMM:-1.605 Km Total –162.2 km	• Kuccha: -90.75 Km • CC- 68.45 Km • BT- 0.0 Km • GSB/WMM:-1.605 Km • Total -159.2 km
	Building and Miscellaneous work			

Contract description	Cumulative Progress of works up to 30.09.2022		
	Item Description	Scope of Work	Progress made so far
	CRMC Building opp to EE office	1 nos.	Electrical Equipment Fixing is in Progress.
	CRMC Building at AEn office	1 nos.	Electrical Equipment Fixing is in Progress.
	MCC	1 Nos	Electrical Equipment Fixing is in Progress.
	Refurbishment Work:	LS	1) Bad Ke Balaji H/W: A) Existing CWR 280KL: Plastering on container wall completed. b) Boundary Wall: Plastering work on boundary wall completed. 2) Garh OHSR: Brick work and Plastering work for boundary wall completed. 3) Panchayat samiti OHSR: Plinth protection of OHSR completed. 4) Aen Campus H/W: Plastering work for boundary wall completed. 5) H/W: Inner Plaster work completed. with procurement of EMI in process

Town: Fatehpur

Contract description	Cumulative Progress of works up to 30.09.2022			
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 Financial Progress- 56.00% Cumulative Physical Progress- 82.00% 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	SBR: - Civil work with Hydro test work completed. EMI work in progress. TEER: - Civil work with hydrotest completed. Admin building: - Ground floor plaster completed; 1st floor finishing work is in progress. putty paint work is in progress. Parapet Brick wall work completed. PTU: - Civil work with hydrotest completed. Mechanical work is under progress. Meter Room: - Civil work completed. Guard Room: - Civil work completed.
	MPS	MPS for 4.3 MLD STP (Nari Bari Village Road in Existing STP Campus)	Same as Scope of work	MPS:- Civil work completed. Mechanical work is in under progress. DG/Transformer:- Civil work completed.
	SPS (3 No.)	3.5 MLD near dholi Sati Temple	Same as Scope of work	Wet well: - Civil work completed. Guard & Metter room: - Floor Grade slab completed. Putty work completed painting work is under progress. Control panel Room: - Putty work completed painting work is under progress. DG/Transformer:- Civil work completed.
		0.60 MLD, (Near Aksha Maszid:- Zone-2) Khasra no. 982, National Highway no. 52, Jahanghir ki kui	Same as Scope of work	Wet well:- civil work completed. Guard room:- Finishing work is in progress. Control panel Room:- Finishing work is in progress. DG/Transformer:- Civil work completed.
		1.1 MLD Near Railway underpass Nawalgarh road- Zone-1 (Khasra no. 1806)	Same as Scope of work	Wet well:- Cover slab work completed. Monorail column and Beam work completed. inner civil work is under progress. Guard room and Control panel Room:- Plinth beam and column

Contract description	Cumulative Progress of works up to 30.09.2022			
				work completed up to slab level. Brick work is under progress. Boundary wall:- RR 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	a) Supply: 34.920 Km b) Laid:-31.769 Km c) Testing: 28.853 Km d) Commissioning: NIL
	Manholes (All types)	7478 Nos	4231 Nos.	a) Supply: - Precast Manhole 3224 Nos b) Installation: - Precast manhole: - 3115 Nos Brick manhole:- 767 Nos c) Testing: - 3869 Nos. d) Commissioning: - Nil
	Inspection Chamber (A types)	6600 Nos	2809 Nos.	a) Supply: -2646 Nos b) Installation: - 2535 Nos c) Testing: - 2418 Nos d) Commissioning: - Nil House terminal chamber: - 4139 Nos
	Population Benefitted due to commissioned	60000	60000	-
	For Road Cutting & Restoration-			
	Road cutting	Road restoration Base Layer	Road restoration Top Layer	
	- Kuccha: 50.388 Km - CC – 32.514 Km - BT – 3.00 Km - Interlock– 0.00 Km Total: - 85.902 Km	- Kuccha: 50.388 Km - CC – 30.773 Km - BT – 3.00 Km - Interlock– 0.00 Km Total: - 84.121 Km	- Kuccha: 50.388 Km - CC – 30.773 Km - BT – 0.00 Km - Interlock– 0.00 Km Total: - 81.161 Km	
	Building and Miscellaneous work			
	Item Description	Scope of Work	SIP Scope	Progress made so far

Contract description	Cumulative Progress of works up to 30.09.2022			
	CRMC Building	1 Nos. (Nagar Palika)	Same as Scope of work	Civil work completed. Electrical equipment & Furniture fixing work is in progress
	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) Supply: - 14.800 Km b) Laid: - 14.743Km c) Testing: - 12.380 Km d) Commissioning: - Nil
	DI Pipe	5.95 Km	2.89 Km	a) Supply: - 2.365 Km b) Laid: - 2.067 Km c) Testing: - 2067 Nil d) Commissioning: Nil
	MS Pipe	60 mtr	120 meters	a) Supply: - 60 Mtr b) Laid: - Nil c) Testing: - Nil d) Commissioning: - Nil

Town: Sardarshahar

Contract description	Cumulative Progress of works up to 30.09.2022			
Package no - RSTDIP/SRD/01 Works under package- Construction Works of Water Supply Production and Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply and providing sewer network with house sewer connections along with construction of Sewage Treatment Plant & Sewerage Pumping Station; all allied works and operation services of the entire system for 10 years at Sardarshahar (Churu). Name of Contractor- M/s-Larsen & Toubro Limited Contract type- Design, Build and Operate Date of Start- 22.06.2020 Cumulative Financial Progress- 46.96 % Cumulative Physical Progress- 53.96 % Stipulated Date of completion of Design Build- 21.06.2023	Water Supply:			
	Item	Scope	SIP Scope	Progress
	Total Distribution Network			-
	HDPE Pipe	190.01 Km	260.519 Km Extra Item-1.009	a) Supply: -185.89 km b) Laid: - 164.459 km c) Testing: - 118.586 km d) Commissioning: -NIL
	DI Pipe K7	10.379 km	11.981 Km	a) Supply: - 7.175 km b) Laid: - 3.016 km c) Hydro Testing: -km d) Commissioning: -NIL
	DI Pipe K9	2.100 Km	6.100 km	a) Supply: -1.77km b) Laid: - 0.656 km c) Hydro Testing: - Km d) Commissioning: - NIL
	House Service Connection	22000 Nos	22907 Nos.	a) Laying/installation: -7812 nos b) Testing: - 4400 nos c) Commissioning:-NIL
	Domestic Water Meter	22000 Nos	22907 Nos.	a) Supply: - NIL b) Installation: - NIL c) Testing: - NIL d) Commissioning: - NIL
	Metering	EMFM-17 Nos	Equal to BOQ	a) Supply: NIL 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: NIL b) Installation:-NIL c) Testing: NIL d) Commissioning: NIL
	Pressure Transmitters	85 Nos.	Equal to BOQ	a) Supply: NIL b) Installation:-NIL c) Testing: NIL d) Commissioning: NIL
	No. of DMAs	26 Nos.	26 Nos.	-
	RWR	-	-	-
	WTP	-	-	-
	Pump House	1 Nos. at PHED Campus	1 Nos. at PHED Campus	Slab shuttering & Reinforcement progress
	CWR	1 No. (2400 KL PHED Campus)	1 No. (2400 KL PHED Campus)	CWR Tank:- Concreting of slab completed. Dome Concreting work completed. Mumty column reinforcement work in progress.
	OHSR	-	-	-

Contract description	Cumulative Progress of works up to 30.09.2022			
	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	TEER 540 KL:- Top dome casted DI Fitting completed and water filling in progress for hydrotesting. SBR:- Decenter installation in completed. water filling for hydrotest in progress. PTU:- Reinforcement and shuttering in progress of walkway slab. Admin building:- Brick work in progress. Upgradation Buffle wall casted up to top level. Staff Quarters:- column casted up to plinth level preparation of bar binding of plinth beam.
		2.3 MLD at South Campus	2.3 MLD at South Campus	TEER 730 KL:- Top dome concreting completed. DI pipe fittings completed. Preparation for water filling for hydrotest. SBR- Hydro testing done of basin B & basin A in progress. Decenter installation completed. Admin building:- Plaster work completed. PTU:- Walkway slab casting completed. Upgradation 5 MLD PCC of baffle wall completed. Wall-1 raft casting completed reinforcement of wall in progress.
		1.6 MLD at Gandhi Vidhya Mandir Campus	1.6 MLD at Gandhi Vidhya Mandir Campus	Land yet not finalized.
	MWPS	1	1	-
		0.60 MWPS		Raft casting completed.

Contract description	Cumulative Progress of works up to 30.09.2022			
	SPS	2.3 MLD at Gaushala Land near BSNL Office	2.3 MLD at Gaushala Land near BSNL Office	Sinking completed preparation of PCC work completed & Raft reinforcement in progress.
		0.65 MLD at IGNP Guest House	0.65 MLD at IGNP Guest House	Land yet not finalized.
	Lateral Sewer (up to dia 315) (200mm,250m m,300mm)	51.789	50.39	a) Supply: 43.300 km b) Laid:-38.398 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: - 44.39 km b) Laid: - 25.568 km c) Testing: NIL d) Commissioning: -NIL
	Manholes (All types)	4319 Nos.	2964 nos.	a) Supply: 1870 Nos b) Installation: - 1684 Nos c) Testing: - 1284 Nos d) Commissioning: - Nil
	Inspection Chamber (All types)	7600	7600 Nos.	a) Supply: 2395 Nos b) Installation: - 2296 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: 90.661 Km - CC – 71.308 Km - BT/WMM – 2.490 Km - Interlock– 0.00 Km - Total= 164.459 Km		- Kuccha: - 90.661 Km - CC PCC – 68.856 Km - BT/WMM 2.490 Km - Interlock – 0.00 Km - Total = 160.667 Km	- Kuccha: - 90.661 Km - CC PCC – 67.508 Km - BT/WMM 2.410 Km - Interlock – 0.00 Km - Total= 159.24 Km	
Building and Miscellaneous work				
Item Description	Scope of Work	SIP Scope	Progress made so far	
CRMC -1	1. PHED Campus	1. PHED Campus	• Structure Completed. Finishing work in progress.	
CRMC -1	1. AEn, PHED campus	1. AEn, PHED campus	• Plinth Beam completed. Stair case reinforcement work in progress.	

Contract description	Cumulative Progress of works up to 30.09.2022			
	CCC Building (1 No.)	PHED Campus	PHED Campus	• Structure Completed. Painting & electrical work in progress.
	MCC Building (1 No.)	PHED Campus	PHED Campus	• Structure Completed. Painting & electrical work in progress.
	PLC SCADA	1 No.	1 No.	-
	Trenchless Work			
	HDPE Pipe (250mm to 630mm)	11.866 Km	9.60	a) Supply: - 9.58 Km b) Laid: - 4.834 Km c) Testing: - Nil d) Commissioning: -Nil
	RCC Pipe(600mm)	-	4.19	a) Supply: - Nil b) Laid: - Nil c) Testing: - Nil
	MS Pipe (450mm to 500mm)	-	200 mtr	a) Supply: - 0.100 km b) Laid: - 0.100 Km c) Testing – NIL d) Commissioning – NIL

Town: Abu Road

Contract description	Cumulative Progress of works up to 30.09.2022			
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 Financial Progress- 49.00 % Cumulative Physical Progress- 61.00 % 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: 133.284 Km b) Laid: - 90.272Km c) Testing: 80.5 km d) Commissioning: NIL
	DI Pipe K7	33.08 Km	18.09 km	a) Supply: 18.09 Km b) Laid: -12.135 km c) Hydro Testing: NIL d) Commissioning: NIL
	DI Pipe K9 (Transmission Mains)	32.44Km	33.08 Km	a) Supply: - 29.32 Km b) Laid: - 16.02 Km c) Testing: 14.55 km d) Commissioning: NIL
	House Service Connection	12800 Nos	12800 Nos.	a) Laying/Installation: -5594 Nos. b) Testing: 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- Inner wall concreting completed Chemical & Filter House- Floor slab shuttering work in progress Admin Building- Brick work upto 1st slab completed Staff Quarters - Inner painting work in progress Guard room metering room – Plaster Complete .
	Pump House	4 No	4 Nos.	Santpur, Luniyapura, Market Area and Housing Board

Contract description	Cumulative Progress of works up to 30.09.2022			
		Santpur	Santpur	Column up to lintel height completed
		Luniyapura	Luniyapura	Brickwork in progress
		Market Area	Market Area	Excavation in progress
		Housing Board	Housing Board	Excavation in progress
	CWR	5 No.	5 Nos.	Santpur , Luniyapura, Market Area, Gandhinagar and Housing Board
		Luniyapura CWR	Luniyapura CWR	Dome casting completed. Staircase casting completed.
		Santpur CWR	Santpur CWR	Dome casting completed
		Market Area CWR	Market Area CWR	Excavation in progress
		Housing Board CWR	Housing Board CWR	Dome casting completed
		Gandhi Nagar CWR	Gandhi Nagar CWR	Dome R/f Binding in progress
	Intake	1	1	Online application proceed 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 application forwarded to State Government.
	Wastewater			

Contract description	Cumulative Progress of works up to 30.09.2022			
	STP (02 Nos.)	6.9 MLD	6.9 MLD	SBR- Hydrotesting completed. PTU- Walkway slab completed. Fine screen erection completed. Staff Quarter- Plastering Completed. Admin Building- Finishing work in progress. Guard Room & Metering Room- Plaster Completed. TEER- Column Upto 5th Brace Beam completed. MPS- Wet well slab concreting Completed.
		2.3 MLD	2.3 MLD	SBR-ISMB Beam erection work in progress. PTU- Base slab concreting completed. MPS- Top slab concreting completed. Admin Building – Plastering in progress. Staff Quarter- Plaster completed. Guard Room & Metering Room- Cable trench concreting completed. TEER- Yet to be started. Retaining wall- Casting completed.
	DWC Pipes	82.39 Km	82.39 Km	a) Supply: 82.23 Km b) Laid: -73.114 Km c) Testing: 66.7 Km d) Deflection Test: 48 km e) Commissioning: NIL
	RCC Pipes	1.59 Km	1.59 Km	a) Supply: 0.87 km b) Laid: - 0.81 km c) Testing: 0.655 d) Commissioning: NIL
	PVC-U Pipe	130 Km	130 Km	a) Supply: 93.516 Km b) Laid: - 30.31 Km c) Testing: 25.32 Km d) Commissioning: NIL
	Manholes (All types)	5185 Nos.	5185 Nos.	a) Supply: 4469 nos. b) Installation: -2747 Nos. c) Testing: 2232 Nos. d) Commissioning: NIL
	Inspection Chamber (All types)	13000 Nos.	13000 Nos.	a) Supply: 6169 Km b) Installation: - 5938 Nos. c) Testing: 5022 nos. d) Commissioning: NIL

Contract description	Cumulative Progress of works up to 30.09.2022			
	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: - 8.07 Km • CC-56.474 Km • BT- 6.1 Km	
	Road Restoration	95.35 Km	• Kuccha: -8.07 Km (Only Kuccha) • CC Km (up to PCC-55.95 km , Full CC-55.84 km • BT Km (up to WMM)-5.6 km	
	Building and Miscellaneous work			
	Item Description	Scope of Work	Progress made so far	
	CRMC Building	1	Finishing works Pending	
	CCC Building	1	Brickwork Plaster in progress	
	MCC Building	1	Plaster in progress	
	PLC SCADA	11	Drawings under review	
	Trenchless Work			
	HDPE Pipe	15.78 km	a) Supply: 13.88 Km b) Laid:- 12.618 Km c) Testing: 7.8 Km d) Commissioning: NIL	
	RCC Pipe	1.59 km	a) Supply: 0.87 b) Laid:- 0.81 c) Testing: 0.655 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 30.09.2022		
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 Financial Progress- 39.00 % Cumulative Physical Progress- 57.00 % Stipulated Date of completion of Design Build- 21.06.2024	Water Supply		
	Item	Scope	Progress
	HDPE Pipe	118 Km	a) Supply:- 126.972 km b) Laid:- 93.906 km c) Testing:- 92.432 km d) Commissioning:- NIL
	DI Pipe K7	5.4 Km	a) Supply:- 5.00 km b) Laid:- 3.393 km c) Hydro Testing:- 3.393 km d) Commissioning:- Nil
	DI Pipe K9	36.76 Km (as per BOQ) Revised -29.92 Km	a) Supply:- 24.808 km b) Laid:- 22.660 km c) Hydro Testing:- 22.05 km d) Commissioning:- Nil
	House Service Connection	8900 Nos	a) Laying/install:- 5739 nos b) Testing:- 5739 nos c) Commissioning:- Nil
	Domestic Water Meter	8900 Nos	a) Supply: - Nil b) Installation: - Nil c) Testing: - Nil d) Commissioning: - Nil
	Metering	EMFM-10 Nos	a) Supply: - Nil b) Installation: - Nil c) Testing: - Nil d) commissioning: - Nil
		BFM- 11 Nos.	a) Supply: - Nil b) Installation: - Nil c) Testing: - Nil. d) commissioning: - Nil
	Pressure Transmitters	47 Nos.	a) Supply: - Nil 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	Soil investigation has been done. Construction permission of Intake well received from WRD, work will start very soon.
		3.90 MLD Intake well at Kalkaji	Source Deleted (As per revised scheme)
	WTP	9 MLD WTP at Angore	Staff quarter floor slab completed & brick & plastering work is in progress, filter house 3 rd wall lift reinforcement and shuttering work is in progress. Cascade Aerator column completed up to bottom beam. Sludge storage yard beam completed. Chemical house PACL storage wall reinforcement & shuttering

Contract description	Cumulative Progress of works up to 30.09.2022		
			work is in progress. Admin building column slab reinforcement & shuttering work is in progress. Clarifloculator side concrete 1 st lift completed. Earth work excavation is in progress for CWR.
	Pump House (3 Nos)	1. At Teen Batti 2. At Kalkaji 3. At Sardulpura	1. Teen Batti CWR-PH :- Earth work for pump house is in progress. 2. Kalkaji CWR-PH :- ,Excavation & PCC completed, due to space constraint & access PH raft shall be started after completion of CWR 1 st lift. 3. Sardulpura CWR-PH :- Excavation & PCC completed due to space constraint & access PH raft shall be started after completion of CWR 1 st lift.
	CWR	Existing CWR (3 Nos.) 1. 200 KL at Teen Batti 2. 567 KL at Kalkaji 3. 100 KL at Sardulpura	
		Proposed CWR (3 nos) 1. 470 KL at Teen Batti 2. 1450 KL at Kalkaji 3. 270 KL capacity at Sardulpura	1. Teen Batti CWR-PH :- CWR wall final lift completed and Roof slab completed. Stair case completed. 2. Kalkaji CWR-PH :- CWR sump portion 1 st lift wall completed. CWR raft completed. 3. Sardulpura CWR-PH :- CWR raft completed. CWR 1 st lift wall 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	Comes under refurbishment plan
		Proposed GLSR 1. 270 KL at Bhatakhera on hillocks 2. 580 KL at Tankeria on hillocks	-
	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	Comes under refurbishment plan

Contract description	Cumulative Progress of works up to 30.09.2022		
		2 nos of existing OHSR to be used 1. 200 KL capacity existing OHSR at RHB 2. 270 KL capacity existing OHSR at Sardulpura	
		Proposed OHSRs	-
	Population benefitted due to commissioned	35000	-
	Wastewater		
	STP (2 nos.)	5 MLD	STP (5 MLD):- SBR top slab work completed and decantor fixed and finishing work is in progress, TEER top dome casting completed and grinding work is in progress. Staff quarters plastering work is in progress. Admin building, GF slab done, 1 st floor column shuttering, Brick work is in progress. PTU completed.
		1.7 MLD	STP (1.7 MLD):- PTU completed. TEER bottom dome completed and final lift wall concreting completed top dome reinforcement & shuttering work is in progress. SBR completed and decantor fixing work is in progress. Staff quarters plaster completed and plumbing work is in progress. Admin building 1 st floor reinforcement and shuttering work is in progress, 1 st floor column shuttering. Brick work is in progress.
	MPS	-	STP (5 MLD):- MPS raft concreting completed and 5 th lift wall completed. STP (1.7 MLD):- MPS raft concreting completed and 7 th lift wall completed.
	SPS	-	-
	Lateral Sewer (upto dia 315)	78.76 Km	a) Supply:- 61.194 km b) Laid:- 55.801 km c) Testing: - 54.168 km d) Deflection test: - 54.168 km e) Commissioning:- Nil
	Outfall (above dia 315)	3.9 Km	a) Supply: - 1.600 km b) Laid: - 1.266 km c) Testing: - 1.266 km d) Commissioning:- Nil
	PVC-U Pipe (110 & 160 mm dia)	90 Km	a) Supply: - 49.973 km b) Laid: - 23.820 km c) Testing: - 21.552 km d) Commissioning:- Nil
	Manholes (All types)	5990	a) Supply:- 3017 nos

Contract description	Cumulative Progress of works up to 30.09.2022		
			b) Installation :- 2475 nos c) Testing: - 2475 nos d) Commissioning:- Nil
	Inspection Chamber (All types)	9000	a) Supply: - 4729 nos b) Installation :- 3516 nos c) Testing: - 3516 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:- 73.750 CC:- 33.55 BT:- 4.57
	Road Restoration	Granular Course - 31585 cum CC- 20,980 cum BT -3170 cum	a) CC: 32.10 Km (upto PCC); 32.00 Km (upto CC) b) BT: 4.15 Km (upto WBM); 4.15 Km (upto BT) Kachha/WMM:- 73.750
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	CRMC Building	1	CRMC plastering work completed and flooring work is in progress.
	CCC Building	1	CCC building plastering completed and flooring work is in progress.
	MCC Building	1	MCC building plastering and finishing work is in progress.
	PLC SCADA	-	-
	Trenchless Work		
	HDPE Pipes	10.8 Km	A) Supply: - 9.069Km B) Laid: - 3.680 Km C) Testing: - 3.680 Km D) Commissioning:- Nil
	RCC Pipes	-	-
	MS Pipes	-	-

Town: Pratapgarh

Contract description	Cumulative Progress of works up to 30.09.2022			
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 Financial Progress- 50.15 % Cumulative Physical Progress- 64.00 % Stipulated Date of completion - 01.11.2024	Wastewater			
	Item	Scope	SIP Scope	Progress
	STP (1 nos.)	7 MLD	7 MLD	32.80 %
	MWP	0.1 MLD	0.1 MLD	40.31%(80% Civil work completed)
	SPS	7 MLD	7 MLD	33%
	Lateral Sewer (up to dia 315)	84.49 KM	114.307 KM	a) Supply: 100.348 Km b) Laid:-95.007 Km c) Testing: 95.007 Km d) Deflection Test: NIL e) Commissioning: NIL
	Outfall (above dia 315)	6.67 KM	3.251 KM	a) Supply: 2.882 Km (RCC) b) Laid:-2.399 km c) Testing: 0.0 km d) Commissioning: NIL
	PVC-U Pipe (110 & 160 mm dia)	108 KM	88.091 KM	a) Supply: 67.896 Km b) Laid:-43.294 km c)Testing: 39.951 km d) Commissioning: NIL
	Manholes (All types)	6884	6829	a) Supply(P1,P2,P3): 4067 nos b) Installation: 5577 Nos. c) Testing: 4241 d) Commissioning: NIL
	Inspection Chamber (All types)	10800	11221	a) Supply: 10345 nos b) Installation:-10036 nos. c) Testing: 7461 d) Commissioning: NIL
	House connection	11100	11418	
	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-43.323 Km • BT-41.525 Km • Kuccha/WMM: -9.877 Km • Interlock tiles: 0.782 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: 42.842 km (up to PCC), 48.842 km (up to CC) b) BT: 40.112 km (up to WMM) 38.092 km (up to BT) c) Kuccha- 9.877 Km d) Interlock tiles- 0.782 km
	Building and Miscellaneous work			

Contract description	Cumulative Progress of works up to 30.09.2022			
	Item Description	Scope of Work	SIP Scope	Progress made so far
	CRMC Building-1	1	1	90.32%
	CRMC Building -2	1	1	90.24%
	CCC Building	0	0	-
	MCC Building	2	2	-
	PLC SCADA	2	2	-
	Trenchless Work			
	HDPE Pipes/DI K7	9.195 Km	5.01 KM	a) Supply: 3.344 km b) Laid:-1.899 km c) Testing: 1.039 d) Commissioning: NIL
	RCC Pipes (600 to 765MM)	0.060 Km	0.074 KM	a) Supply: 0.075 Km b) Laid:- 0.074 Km c) Testing: NIL d) Commissioning: NIL
	MS Pipes	NIL	165 Mtr	a) Supply: 150 Meter b) Laid:- 39 Meter c) Testing: Meter d) Commissioning: Meter

Town: Banswara

Contract description	Cumulative Progress of works up to 30.09.2022		
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 Cumulative Financial Progress- 37.00 % Cumulative Physical Progress- 59.00 % Stipulated Date of completion – 31.01.2025	Water Supply		
	Item	Scope	Progress
	Total distribution network	338.690 km	
	HDPE Pipe	43.220 km	a) Supply: - 23.435 km b) Laid: - 20.424 km c) Testing: - 12.322 km d) Commissioning: - 0.0 km
	DI Pipe K7	286.793 Km	a) Supply: - 229.931 km b) Laid: - 187.831 km c) Hydro Testing: - 154.182 km d) Commissioning: - 0.0 km
	DI Pipe K9	8.677 km	a) Supply: - 7.952 km b) Laid: - 0.0 km c) Hydro Testing: - 0.0 km d) Commissioning: - 0.0 km
	House Service Connection	23600 Nos	a) Supply/Installation: - 11743 Nos. b) Testing: - NIL
	Domestic Water Meter	23600 Nos	a) Supply: - NIL b) Installation: - NIL c) Testing: - NIL
	Metering	EMFM- 32 Nos	a) Supply: - NIL b) Installation: - NIL. c) Testing: NIL d) commissioning: - NIL
		BFM- 18 Nos.	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	28 Nos.	
	WTP	1 no.= 9.25 MLD (AEn Campus)	Clariflocculator CLF-01. – RCC work completed. Clariflocculator CLF-02. - RCC work completed. Admin Building: Civil work completed. Inlet Chamber and connecting chamber- Footing work is completed.
	Pump House	1. At Existing AEn Campus 2. At Kagdi WTP Campus	-
	CWR	CWR-1550 KL (AEn Campus, PHED main campus)	Excavation work under progress.
	OHSR	-	-

	Rehab work (WTP,PH,CWR, OHSR etc.)	-	-
	Population benefitted due to commissioned	-	-
	Wastewater		
	STP (1 nos.)	9.60 MLD (existing STP Campus)	1. SBR -6 th Lift Reinforcement and formwork is under Progress. 2. MPS -Plinth Beam Reinforcement and Formwork is under Progress. 3. Staff Quarter - Civil work complete and finish work is under progress. 4. TEER - Ring Beam reinforcement and formwork is under progress. 5. Admin Building - Column up to slab Reinforcement and formwork is under Progress. 6. TESR - 1 st lift vertical wall reinforcement and formwork are under progress. 7. PTU - Column up to slab Reinforcement work is under progress.
	SPS	SPS-1 : 0.60 MLD (Ward no. 21 near Nathelav Pond)	Sump well, Inlet chamber work is completed and panel Room brick work under Progress.
		SPS-2: 1.7 MLD (Ward no. 1 near Pratapgarh Road)	Sump well plinth Beam formwork and Reinforcement work is under progress.
	Lateral Sewer (up to dia 300 HDPE- DWC)	Total = 81.559 KM	a) Supply: - 80.480 km b) Laid: - 78.639 km c) Testing: - 67.329 km d) Deflection test: 67.329 Km e) Commissioning-0 km
	Outfall (above dia 300 RCC NP4)	Total = 6.431 KM -	a) Supply: 0.925 km b) Laid: 0.394 km c) Testing: 0 Km d) Commissioning: -0 km
	PVC-U Pipe (110 & 160 mm dia)	138 Km	a) Supply: - 43.058 km b) Laid: - 36.423 km c) Testing: - NIL d) Commissioning: - NIL
	Manholes (All types)	Total= 6338 Nos. Precast RCC MH=2086 Shallow MH= 4020 Sewer-Brick MH=232	a) Supply: 2679 nos b) RCC manhole Installation:-2425 Nos c) Shallow manhole : 1564 nos d) Type A- 15 Nos e) Testing: 2358 Nos. f) Commissioning: 0 nos.
	Inspection Chamber (All types)	13800 Nos.	a) Supply: 6855 nos b) Installation: -6640 Nos. c) Testing: 0 Nos. d) Commissioning: NIL
	HSC	11251 nos.	
	Population benefitted due to commissioned	-	-

For Road Cutting & Restoration-		
Item Description	Scope of Work	Progress made so far
Road Cutting	-	a) CC:- 40.504 km b) BT: -36.026 km c) Kuccha/WMM: - 127.730 km • Interlock Tiles: - 3.995 km
Road Restoration		a) CC: - (upto PCC):-39.036 km (upto CC):- 38.880 km b) BT: - Nil (upto WMM); 34.994 km Nil(upto BT):- 32.918 km c)Kuccha/WMM: - 127.730 km d)Interlock Tiles: - 3.995 km
Building and Miscellaneous work		
Item Description	Scope of Work	
CRMC Building (03 Nos.)	1. At AEN campus	1. CRMC (AEN Campus)- Civil Work is Completed and finishing work is under progress
	2. At Dahod Road(Khandu Colony)	2. CRMC (Khandu Colony)- Civil Work is Completed and finishing work is under progress.
	3. At Housing board colony	3. CRMC (housing board)- Civil Work is Completed and finishing work is under progress.
CCC Building 1 No.	At AEN campus	Civil Work is Completed and finishing work is under progress. (Physical progress-76.00%)
MCC Building 1 No.	At AEn Campus)	Civil Work is Completed and finishing work is under progress. (Physical progress-76.50%)
PLC SCADA	-	Nil
Trenchless Work		
HDPE pipe (Trenchless)	Total=4.576 Km	a) Supply: - 2.000 km b) Laid: - 1.362 km c) Testing: - 0.0 km d) Commissioning: -0.0 km

Town: Kuchaman

Contract description	Cumulative Progress of works up to 30.09.2022		
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 Financial Progress- 28.00 % Cumulative Physical Progress- 39.00 % Stipulated Date of completion – 31.10.2024	Water Supply		
	Item	Scope	Progress
	Total distribution network	332.5km	-
	HDPE Pipe	327.7 km	a) Supply: 240.00 Km b) Laid:- 181.2 Km c) Testing: 172.58 Km d) Commissioning: 0.0 km
	DI Pipe K7	4.8 Km	a) Supply: 3.885 km b) Laid: -2.402 km c) Hydro Testing: 2.000 km d) Commissioning: 0.0 km
	DI Pipe K9	11.34 km	a) Supply:13.521 km b) Laid: - 3.410 km c) Hydro Testing: 3.000 km d) Commissioning: km
	House Service Connection	14900 Nos	a) Laying/Installation: - b) Laid:-3732 c) Testing: 2500 Nos. d) Commissioning: 0 Nos
	Domestic Water Meter	14900 Nos	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
	Metering	EMFM	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
		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.	-
	RWR	-	-
	WTP	NIL	-
	Pump House	4 nos.	Excavation in progress
	CWR 04 Nos.	CWR 1 (600 KL)	Dismantling permission received from ACE PHED Ajmer, dismantling work is completed.
		CWR 2 (1200 KL)	Dismantling permission received from ACE PHED Ajmer, dismantling work is completed.
		CWR 3 (920 KL)	Ist lift wall completed.(41%)
		CWR 4 (730 KL)	Excavation, PCC and raft of sump work completed, and First lift of vertical wall is completed.(33%)
	OHSR	Nil	-

Contract description	Cumulative Progress of works up to 30.09.2022		
	Rehab work (WTP,PH,CWR, OHSR etc.)	-	-
	Population benefitted due to commissioned	-	-
	Wastewater		
	STP (1 nos.)	7.60 MLD	1. Raft and column of TEER up to first tie beam work completed, the shuttering and reinforcement of tie beam is in progress. 2. Admin building – Concreting work completed up to plinth beam level. 2 nd lift of column in progress. 3. SBR's outer wall second lift of vertical outer wall is completed excluding centre wall and reinforcement and shuttering work is in progress. 4. Staff quarter concreting work completed up to plinth beam level. 2 nd lift of columns in progress.
	SPS	3.10 MLD	Public Hindrance at workplace
		0.85 MLD	Wet well wall and sinking work is completed. Inside wall in progress.
	MPS		Excavation and PCC completed.
	Lateral Sewer (up to dia 315)	148.942 Km	a) Supply: 94.03 Km b) Laid:- 67.68 Km c) Testing: 50.407 Km d) Deflection Test: 49.525 Km d) Commissioning: 0 km
	Outfall (above dia 315)	3.62 Km	a) Supply: 2.11 km (Total) RCC Pipe (350mm)-517 mtr RCC Pipe (400mm)-275 mtr RCC Pipe (500mm)-235 mtr RCC Pipe (600mm)- mtr b) Laid: - 1028 km c) Testing: Nil d) Commissioning: Nil
	PVC-U Pipe (110 & 160 mm dia)	108.0 Km	a) Supply: 60.2 Km b) Laid:-17.00 Km c) Testing: 5.3 Km d) Commissioning: NIL
	Manholes (All types)	10352 Nos.	a) Supply: 4013 nos b) Installation:-3024 Nos. c). Testing: 2130 Nos. d) Commissioning: 0 nos.
	Inspection Chamber (All types)	10800 Nos.	a) Supply: 3200 nos b) Installation:-3133 Nos. c) Testing: 1600 Nos. d) Commissioning: NIL

Contract description	Cumulative Progress of works up to 30.09.2022		
	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-46.5 Km b) BT-9.7 Km c) WMM: -Km d) Kaccha: 125.7 km
	Road Restoration	a) CC: 45.99Km b) BT: 4.50 Km c) Kuchha: 125.7 d) WMM: 0 Km	a) CC: 45.99 km (up to CC) b) BT: 4.50 km (up to PMC) 0 km (up to BT) c) WMW: 2.03 d) Kaccha: 125.7 km
	Balance Road Restoration (Km)	a) CC: Km b) BT: Km c) WMM: Km d) Kuchha	a) CC-0.51 Km b) BT-5.2 Km c) WMM: -Km d) Kaccha: Nil
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	CRMC Building	CRMC 01	-
		CRMC 02	Outer plaster work is completed. finishing work in progress. (78%)
	CCC Building	1	NIL
	MCC Building	1	Excavation and PCC completed.
	PLC SCADA	1	NIL
	Trenchless Work		
	HDPE Pipes	8.2 Km	a) Supply: 4.70 km b) Laid:-4.4 km c) Testing: Nil d) Commissioning: Nil
	RCC Pipes	3.620 Km	a) Supply: 2.11 Km b) Laid:-1.028 Km c) Testing: Nil d) Commissioning: Nil
	MS Pipes	NIL	a) Supply: Meter b) Laid:- Meter c) Testing: Meter d) Commissioning: Meter

Town: Didwana

Contract description		Cumulative Progress of works up to 30.09.2022		
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 Financial Progress- 41.00% Cumulative Physical Progress- 50.00 % Stipulated Date of completion – 16.05.2024	Wastewater			
	Item	Scope	SIP Scope	Progress
	STP	3.0 MLD	3.0 MLD	• BEP Approved • GA drawing approved. • Hudraulic & 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:- Excavation and PCC and raft completed. 4th Lift wall Concrete completed. • PTU:- Excavation, PCC, Raft and Column1st lift completed. • Admin Building: - Excavation & PCC &footing & 1st floor roof slab reinforcement completed. • TEER: - PCC, Raft completed & 1st Brace Beam WIP. • Staff Quarter: - PCC, Footing & Plinth Beam& Lintel beam completed.
	MPS	-	-	-
	SPS 02 Nos.	SPS-1: 1.7 MLD (Salt area)	SPS-1: 1.7 MLD (Salt area)	The excavation of Boundary wall Completed.
		SPS -2: 1.3 MLD (RSEB Campus)	SPS -2: 1.3 MLD (RSEB Campus)	Boundary wall completed & Sump excavation, PCC and raft work Completed.
Lateral Sewer (upto dia 315)	• 200 mm HDPE DWC SN8)- 1600mtr • 250 mm HDPE -100/PN-6)- 650mtr	• 200 mm (HDPE DWC SN8) - 42739mtr • 250 mm (HDPE PE-100/PN-6) – 4837mtr	a) Supply: 200 mm (DWC): 43.300 km 250 mm (DWC): 0.800 km b) Laying Laid:-42.711 Km (200 mm DWC) Laid: 0.666 Km (250mm DWC) c) Testing: 41.50 Km d) Deflection Test: 40.70 Km e) Commissioning: 2.90 Km	

		• 250 mm HDPE DWC SN8)- 48400mtr • 315 mm (HDPE-100/PN-6)-975 mtr	• 250 mm (HDPE DWC SN8) – 640mtr • 315 mm (HDPE PE-100/PN-6) – 1149mtr	
Outfall (above dia 315)	• 350mm(RCC NP-4) – 200mtr • 400mm(HDPE PE-100/PN-6) – 2525mtr • 900mm(RCCN P-4) – 800 mtr	• 350mm(RCC NP-4) – 366mtr • 400mm(HDPE PE-100/PN-6) – 43 mtr • 900mm(RCCN P-4) – 800 mtr	a) Supply: 0.20 Km b) Laid:- 0.175 Km c) Testing: 0.175 Km d) Commissioning: NIL	
PVC-U Pipe (110 & 160 mm dia)	• 110mm - 37490mtr • 160mm – 6510mtr	• 110mm – 16782 mtr • 160mm – 2916mtr	a) Supply: 19.992 Km (110 mm) 2.916 km (160 mm) b) Laid:- 14.271 km (110 mm) c) Laid:- 2.228 km (160 mm) d) Testing: 9.50 km (110mm) e) Testing: 0.80 km (160mm) f) Commissioning: 2.10 Km	
Manholes (All types)	4137 (Nos)	2372 (Nos)	a) Supply: 2170 nos b) Installation: 2072 Nos. c) Testing: 1646 Nos d) Commissioning: 105	
Inspection Chamber (All types)	4400 Nos	3283 Nos	a) Supply: 2844 nos b) Installation:-2649 nos. c) Testing:2007 Nos d) Commissioning: 145 Nos	
Population benefitted due to commissioned	36184	36184	-	
House Sewer Connection	3800 (Nos)	3283 Nos.	212 Nos Completed	
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: 25.147 km b) BT: 5.245 km c) WBM : 0.447 km d) Kuccha: 11.936 km e) Interlocking Tiles: 0.778 km		
Road Restoration	a) CC: Km	a) CC:		

		b) BT: Km c) Kuchha: Km	25.017 km (up to PCC) 25.017 km (up to CC) b) BT: 5.20 km (up to WBM) 2.84 km (up to BT) c) WBW: 0.447 Km d) Kaccha: 11.936 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	Roof Slab completed; Plaster work completed. Paint work, Door & Window completed.
CCC Building	-	-	-
MCC Building	-	-	-
PLC SCADA	-	-	-
Trenchless Work			
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: 5.816 Km (250,315,400 mm) b) Laid:- 4.798 Km (250mm HDPE) c) Laid: 0.748 Km (315 mm HDPE) c) Testing:4.66 Km d) Commissioning: 0.50Km
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 30.09.2022		
Package no - RSTDIP/LDN/01		Waste Water		
		Item	Scope	Progress

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 Financial Progress- 20.00 % Cumulative Physical Progress- 18.00% Stipulated Date of completion – 16.5.2024	STP (2 nos.)	5.5 MLD	Staff quarter:- Casting of footing completed & colum's bar cutting & binding in progress. Admin Building:- Plinth beam casting completed & colum's shuttering ,bar cutting & binding in progress up to lintel beam. SBR Unit:- 6th lift bar binding, shuttering & casting work in progress. TEER Unit:- Completed up to bracing bottom. PTU Unit:- Column casting work up to lintel beam work completed.
		2.4 MLD	Work not started due to GAD not submitted by contractor.
	Lateral Sewer (up to dia 315)	103.81 Km	a) Supply: 56.184 Km b) Laid:-39.558 Km c) Testing: 34.3 km d) Deflection Test: Nil e) Commissioning: Nil
	Outfall (above dia 315)	9.12 km	a) Supply: 5.660 km b) Laid:-2.271 km c) Testing: Nil d) Commissioning: Nil
	PVC-U Pipe (110 & 160 mm dia)	78.88 Km	a) Supply: 47.982Km b) Laid:-13.474 km c) Testing: Nil d) Commissioning: Nil
	Manholes (All types)	5209 Nos.	a) Supply: 2556 nos b) Installation: 1794 Nos c) Testing: NIL d) Commissioning: NIL
	Inspection Chamber (All types)	13148 Nos.	a) Supply: 3776 nos. b) Installation:-3101 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: 14.808 km b) BT:4.0 km c) Kuccha/WMM:5.608 km d) CB:17.506 km (Total=41.598 km)	
Road Restoration	a) CC: Km b) BT: Km c) Kuchha/WMM: Km	a) CC: 14.808 km (up to PCC) 14.808 km (up to CC) b) BT: 1.947 km (up to WBM) 0.550 km (up to PMC layer with seat coat)	

			a) WBW/Kuccha: 5.608 km b) CB:15.458 km
		Balance Restoration	a) CC: 0.0 Km b) BT: 3.486 Km c) Kucha:0 Km d) CB: 2.048 Km Total: 5.534 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		
	HDPE Pipes	5.05 Km	a) Supply: 3.258 Km b) Laid:-0.130 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 30.09.2022
	Wastewater

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 Financial Progress- 35.00 % Cumulative Physical Progress 49.00 % Stipulated Date of completion – 16.5.2024	Item	Scope of work	SIP Scope	Progress
	STP (01 No.)	7.7 MLD	7.7 MLD	- The BEP of STP approved &SIP ubmitted. - Architecture Drawing of Admin Building, Blower room, Sludge Dewatering room, Tonner & Chlorination rooms approved on dated 22.11.2021. - Submission of Compliance for Equipment & Cable routing Layout compliance, RMU,DG & Transformer Foundations & Yard Layout, Design Calculation, Numeration & RC Details,Design and Drawing and Drawings for Main Pumping Station (MPS) for 7.7 MLD STP. - Submission of Design Calculation and Numeration & RC Details of General Civil Works-Roads & Storm Water Drain for 7.7 MLD STP at Makrana on dated 30.11.2021. - Admin Building plinth beam work is in progress. PTU wall work is in progress above slab. - SBR Vertical wall 4th lift Completed & TEER column casting is in progress.
	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. The Excavation of sump well and PCC work is completed. - Raft casting work is completed and 8th lift Completed. Top slab work is in progress. - Metering Room and guard room Roof slab reinforcement work is going on.
		SPS-2: 1.80 MLD (Matabhar Road)	SPS-2: 1.80 MLD (Matabhar Road)	6th Lift reinforcement work completed and shuttering work is in progress. - Metering Room and guard room column 1st lift above plinth beam is in progress.
	Lateral Sewer (upto dia 315)	200mm(HDPE DWC SN8)- 78694mtr	200mm (HDPE DWC SN8) - 78694 mtr	a) Supply: 72.714 Km (200 mm DWC) b) 0.108 km (250 mm DWC) c) 6.525 km (250mm HDPE) d) 1.402 Km (315mm HDPE)

		• 250mm (HDPE PE-100/PN-6)-8825 mtr • 250mm (HDPE DWC SN8)-1096 mtr • 315mm(HDPE PE-100/PN-6/-)2001 mtr	• 250mm (HDPE PE-100/PN-6) – 8825 mtr • 250MM (HDPE DWC SN8) – 1096 mtr • 315mm (HDPE PE-100/PN-6) – 2001 mtr	e) 0.865 Km (400mm HDPE) Laid Pipe Line:- a) Laid:-66.137 Km (200 mm DWC) b) Laid:0.106 Km(250mm DWC) c) 6.049 Km (250mm HDPE) d) 1.236 Km (315mm HDPE) e) Testing:51.000 Km (200mm DWC) f) Deflection test:38.967 km g) Commissioning – Nil
	Outfall (above dia 315)	• 350mm (RCC NP-4)-3076 mtr • 400mm (RCC NP-4)-62 mtr • 400mm (HDPE PE-100/PN-6)-784 mtr (SIP 859.65 mtr) • 1200mm(RCC NP-4)-500 mtr	• 350mm (RCC NP-4) - 3076 mtr • 400mm (RCC NP-4) – 62 mtr • 400mm (HDPE PE-100/PN-6) – 859.65 mtr • 1200mm (RCC NP-4) – 500 mtr	a) Supply: 1.470 km(350mm RCC) b) Laid:- 1.082 km (350mm RCC) c) Supply: 0.865 (400mm HDPE) d) Laid:- 0.840 km (400mm HDPE) c) Testing: NIL d) Commissioning: NIL
	PVC-U Pipe (110 & 160 mm dia)	• 110mm-78660mtr • 160mm-10340mtr	• 110mm – 41772 mtr • 160mm – 5490 mtr	a) Supply: 50.954 Km (110 mm) 4.992 km(160 mm) b) Laid:- 15.185 km (110 mm) :- 0.835 km (160 mm) c)Testing: 9.280Km d) Commissioning: NIL
	Manholes (All types)	6806 Nos.	4253 Nos	a) Supply: 3620 nos b) Installation: 2898 Nos. c) Testing: 2171 Nos. d) Commissioning: NIL
	Inspection Chamber (All types)	8900 Nos.	7877 Nos	a) Supply: 4516 nos b) Installation:-3546 Nos c) Testing: 2201 Nos. d) Commissioning: NIL
	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	• CC-15.473 Km • Interlocking tiles: 4.166 Km • BT-3.665 Km • WMM – 1.489 Km	

		d) WMM: Km e): Kuchha : Km	• Kuccha: - 42.534 Km	
	Road Restoration	c) CC: Km d) Interlocking tiles: Km c) BT: Km d) WMM: Km e): Kuchha : Km	a) CC:13.437 Km b) Interlocking tiles:0 Km c) BT:3.240 km (up to WMM) d) WMM: 1.489 KM e) Kuccha/WMM: 42.534 km	Note: - ILT:- 0.759 Km, CC:-0.722 Km, BT:- 1.5 Km pending for decision between RUIDP & Nagar parishad Makrana)
Building and Miscellaneous work				
Item Description		Scope of Work	Progress made so far	
CRMC Building		1	Civil work up to finishing level completed. Water supply, sanitary and joinery work is in progress.	
CCC Building		-	-	
MCC Building		-	-	
PLC SCADA		-	-	
Trenchless Work				
HDPE Pipes	• 250mm (HDPE PE-100/PN-6)-8825 mtr. • 315 mm (HDPE PE-100/PN-6)-2001 mtr • 400mm (HDPE PE-100/PN-6)-859.65 mtr	a) Supply: 6.525 km (250mm HDPE) b) 1.402 km (315mm HDPE) c) 0.865 km (400 HDPE) d) Laid: -6.049 km (250mm HDPE) e) 1.236 (315mm HDPE) f) 0.840 km (400mm HDPE) g) Testing: - 4.00 Km h) Commissioning: - Km		
RCC Pipes	• 3.076 KM (350mm) • 62 mtr (400mm) • 500mtr (1200mm)	a) Supply: 1.470 Km (350mm) b) Laid:- 1.082 Km (350mm) c) Testing: Nil d) Commissioning: Nil		
MS Pipes	NIL	a) Supply: Nil b) Laid:- Nil c) Testing: Nil d) Commissioning: Nil		

Town : Khetri

Contract description		Cumulative Progress of works up to 30.09.2022		
Package no - RSTDIP/KTR/03		Water Supply		
		Item	Scope	Progress

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 Financial Progress- 36.00 % Cumulative Physical Progress- 36.00 % Stipulated Date of completion – 20.03.2024	Total distribution network	50.38 km	a) Supply: 47.970 Km b) Laid:- 28.319 Km c) Testing: 13.185 Km d) Commissioning Nil
	HDPE Pipe (Dia. 20,25 & 32 mm)	22 km	a) Supply: 22 Km b) Laid:- 6.362 Km c) Testing: Nil d) Commissioning: Nil
	DI Pipe K7	44.11 Km	a) Supply: 44.085 Km b) Laid:-26.403 km c) Hydro Testing: 13.185 km d) Commissioning: Nil
	DI Pipe K9	6.274 km	a) Supply:3.883 Km b) Laid:-1.916 Km c) Hydro Testing: Nil d) Commissioning: Nil
	House Service Connection	4400 Nos	a) Laying/Installation:-1174 Nos. b) Testing: Nil c) Commissioning: NIL
	Domestic Water Meter	4400 Nos	a) Supply: Nil b) Installation:-Nil c) Testing: Nil d) Commissioning: Nil
	Metering	EMFM-17 nos.	a) Supply: Nos b) Installation:- Nos c) Testing: Nos d) Commissioning: Nos
		BFM – 13 nos.	a) Supply: Nil b) Installation:- Nil c) Testing: Nil d) Commissioning: Nil
	Pressure Transmitters	28 Nos.	a) Supply: Nil b) Installation: -Nil c) Testing: Nil d) Commissioning: Nil
	No. of DMAs	9 Nos.	-
	Pump House	2 nos.	JEn campus submission of revised design & drawing is still awaited from contractor's side. Excavation work in progress at AEn campus.
	CWR (500 KI)	1 nos.	Dome & walkway casting completed.
	Rehab work (WTP,PH, CWR, OHSR etc.)	OHSR/GLSR-07 nos. and 7 nos. of tube wells survey work in progress. Awaited for final report.	
	Population benefitted due to commissioned	18,209 souls	
	Wastewater		
STP (1 nos.)	3.15 MLD	Agreement has been done between nagar palika & HCL on dated 23.06.2022. Demarcation & site clearance, levelling work start at new STP land.	
Lateral Sewer (up to dia 315)	31.325 Km	a) Supply: 26.094 Km b) Laid: -18.374 Km c) Testing: 10.350 Km d) Deflection Test: Nil	

		d) Commissioning: Nil
Outfall (above dia 315)	2.897 Km	a) Supply: 1.420 km b) Laid: - 0.221 km c) Testing: Nil d) Commissioning: Nil
PVC-U Pipe (110 & 160 mm dia)	45.0 Km	a) Supply: 10.468 Km b) Laid: - 4.560 Km c) Testing: Nil d) Commissioning: NIL
Manholes (All types)	2231 Nos.	a) Supply: 968 nos b) Installation: -713 Nos. c). Testing: 494 Nos. d) Commissioning: 0 nos.
Inspection Chamber (All types)	4500 Nos.	a) Supply: 1097 nos b) Installation: -698 Nos. c) Testing: Nil d) Commissioning: Nil.
Population benefitted due to commissioned	18209 souls	
For Road Cutting & Restoration-		
Item Description	Scope of Work	Progress made so far
Road Cutting	a) CC: 21.483 Km b) BT: 10.955 Km c) Kuchha/WMM: Km	• CC-19.680 Km • BT-0.549 Km • Kuccha/WMM: -4.223 Km
Road Restoration	a) CC: Km b) BT: Km c) Kuchha: Km	a) CC: 22.510 km (up to PCC) 17.440 km (up to CC) b) BT: 0.0 km (up to WMM) 0.0 km (up to BT) c) Kuchha: 4.223 Km
Remark	1.Road Cutting:-19.680 km of CC cutting is for water supply & sewer work.0.549 Km of BT cutting is for water supply work.4.223 km Kachha /WMM cutting for Water supply & sewer work. 2. Road Restoration:- 14.590 Km of water supply & sewer work and 2.850 km of water supply.	
Building and Miscellaneous work		
Item Description	Scope of Work	Progress made so far
CRMC Building	1	Plastering work completed
CCC Building	1	Plastering work completed
MCC Building	1	1 st floor slab casting completed & plaster work in progress.
PLC SCADA	1	-
Trenchless Work		
HDPE Pipes	0.331 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 30.09.2022			
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	Water Supply			
	Item	Scope of work	SIP scope	Progress
	Total distribution network	116.82 km	120.131 Km	a) Supply: 113.100 Km b) Laid:- 86.552 Km c) Testing: 53.900 Km d) Commissioning: Nil
	HDPE Pipe (75 mm to 250 mm dia.)	108.40 km	112.589 Km	a) Supply: 113.100 Km b) Laid:- 86.552 Km c) Testing: 53.900 Km d) Commissioning: Nil
	DI Pipe K7 (100 mm to 350 mm)	6.62 Km	5.652 Km	a) Supply: Nil b) Laid:- Nil c) Hydro Testing: Nil

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 Financial Progress- 52.76 % Cumulative Physical Progress- 54.64 % Stipulated Date of completion – 20.03.2024				d) Commissioning: Nil
	DI Pipe K9 (100 mm to 150 mm dia)	1.89 km	1.89 km	a) Supply: Nil b) Laid:- Nil c) Hydro Testing: Nil d) Commissioning: Nil
	House Service Connection	5400 Nos	6426 Nos.	a) Laying/Installation:-2409 Nos. b) Testing: 2020 Nos. c) Commissioning: NIL
	Domestic Water Meter	5400 Nos	6426 Nos.	a) Supply: NIL b) Installation:-NIL c) Testing: NIL d) Commissioning: NIL
	Metering	EMFM-1 nos.		a) Supply: NIL b) Installation:-NIL c) Testing: NIL d) Commissioning: NIL
		BFM – 18 nos.		a) Supply: NIL b) Installation:-NIL c) Testing: NIL d) Commissioning: NIL
	Pressure Transmitters	24 Nos.		a) Supply: NIL b) Installation:-NIL c) Testing: NIL d) Commissioning: NIL
	No. of DMAs	5 Nos.		-
	Pump House	1 nos.		GAD & Layout drawing is approved and due to change of capacity drawing are resubmitted and approved. CWR excavation in progress.
	CWR (500 KI)	1 nos.		
	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	-
	Population benefitted due to commissioned	25610	25610 souls	
	Wastewater			
	STP (01 no.)	3.90 MLD	3.90 MLD	GAD, Layout plan and flow diagram drawing are approved. Structure design/drawing of TEER are Approved. MPS structural drawing is approved. Vertical wall completed and floor slab completed. Shuttering and casting of vertical wall in SBR in progress. Casting of bottom dome and conical wall of TEER completed. Column up to plinth of Admin

				Building completed. Column up to plinth of Metering Room completed.
	SPS (0.40 MLD)	1 No.	1 No.	Structural design and drawing are approved. Brick work in SPS. Metering Room plaster completed and plaster work at SPS completed. Boundary wall excavation in progress.
	Lateral Sewer (upto dia 315)	47.4 Km	47.326 Km	a) Supply: 45.588 Km b) Laid:- 42.064 Km c) Testing: 26.392 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: 12.00 Km b) Laid:-5.765 Km c) Testing: Nil d) Commissioning: NIL
	Manholes (All types)	3664 Nos.	3053 Nos.	a) Supply: 2749 nos b) Installation:-1997 Nos. c).Testing: 1020 Nos. d) Commissioning: Nil
	Inspection Chamber (All types)	4350 Nos.	5140 Nos	a) Supply: 2249 nos b) Installation:- 1519 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	
Road Cutting		a) CC: Km b) BT: Km c) Kuchha/WMM: Km	• CC-40.700 Km • BT-0.215 Km • Kuccha/WMM: -65.150 Km • Interlock tiles :-4.110	
Road Restoration		a) CC: Km b) BT: Km c) Kuchha: Km	a) CC: 38.120 km (up to PCC) 38.040 km (up to CC) b) BT: 0.0 km (up to WBM) 0.0 km (up to BT) c) Kuccha: 65.150 km d) Interlock Tiles:-4.050 Km	

	Remarks	Road Cutting: -13.200 Km of CC & 1.950 Km interlock tiles road cutting is for water supply & 27.500 km CC & 2.160 Km interlock tile road for sewer work. Kachha road 50.700 km for water supply and 14.450 km for sewer work.	
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	CRMC Building	1	Plaster work completed.
	CCC Building	1	
	MCC Building	1	Plinth beam completed and column steel work in progress.
	PLC SCADA	1	-
	Trenchless Work		
	HDPE Pipes (PE-100 PN-6, 250 mm to 500 mm dia)	5.0 Km (SIP 5.587 km)	a) Supply: 5.587 km b) Laid:-2.902 km c) Testing: 0.600 km d) Commissioning: Nil
	RCC Pipes	0.0 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 in location
1.	Abu Road	-	-	WTP – 10 MLD, PHED headworks, behind ITI College, Santpur	WTP – 10 MLD near cremation ground at Santpur

		-	-	CWR (600 KL), existing campus of PHED in Gandhi Nagar	CWR (600 KL), village Kue
		No CRMC and CCC was included	A Consumer Relation Management Centre (CRMC) and Central Control Centre (CCC) proposed at Shantikunj Park	-	-
		Raw water main – 18.09 km	-	-	-
		Clear water mains – 32.44 km	-	-	-
		Water Supply distribution Network- 134 km	Distribution network length increased from 134 km to 146.21 km		
		Sewage collection network including house connections – 104.94 km	-	-	-
2	Sirohi	Intake of 3.9 MLD at Kalka ji Dam	Due to non availability of water in Kalkaji dam, only one intake well (at Angore Dam) to draw 8.6 MLD from Angore dam is in scope, another Intake well at Kalkaji dam has been dropped	-	-
		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	Total Length of Raw water mains has been decreased from 13.191 km to 2.132 km (from Angore Dam to WTP) as one raw water mains 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	CWR & PH, Existing PHED Campus, Rampura	CWR & PH, Existing PHED Campus, Kalka Ji

		-	-	WTP, CWR Pump house-PHED Headwork, Angore	Additional land (pasture land) adjacent to the existing Angor Headworks has been allotted for WTP, CWR Pump house
		Transmission mains – 36.76km	Length of Transmission mains has been decreased from 36.76 km to 29.92 km		
		Water Supply distribution network-118 km	-	-	-
		Sewer collection network- 93.46 km	-	-	-
3	Laxmangarh	-	-	Master control center and consumer relation management center, Bad ke balaji PHED campus	Master control centre and consumer relation management centre in EE, PHED office premises
		Water supply distribution networks (150.303 Km) including House service connection of 12200	-		
4	Ratangarh	1. TESR - 470 KL 2. TESR- 270 KL 3. TEER -240 KL 4. TEER- 140 KL	1. TESR - 300 KL 2. TESR- 190 KL 3. TEER -610 KL 4. TEER- 380 KL	-	-
		No CRMC was proposed	CRMC at proposed SPS at Main Ginani in Kadwaria Bas location added in updated IEE	-	-
5	Sardarshahar	-	-	CWR (2400 KL)- North west corner of the campus of Public health engineering department (PHED) at Hanumangarh Road	CWR- South west direction in the campus of PHED Office

		Water supply distribution networks – 190.01 km	Length increased from 190.01 km to 260.519 kms Scope changed due to new developments (colonies) in the town	-	-
		One CRMC building behind main building of PHED office	One additional CRMC building, Fire station office campus	-	Location of CRMC-2 Changed within existing PHED campus
		Sewer Networks- 68 km	-		
6	Fatehpur	-	-	CRMC- SPS campus, behind Dholi Sati temple	CRMC- In the campus of Municipality
				SPS (1.1 MLD): Near Railway underpass (Khasra no. 1818)	SPS (1.1 MLD): Near Railway underpass (Khasra no. 1806)
				SPS (0.6 MLD): Near Fatima Masjid	SPS (0.6 MLD): Khasra no. 982, National Highway no. 52, Jahanghir ki kui
7	Pratapgarh	Sewage collection network -100.335 km	Network length increases from 100.335 km to 109.61 km	-	-
				STP (7 MLD) near Mukti Dham, village Talabkeda	STP (7 MLD) near Kila Road, near Jain Gausala
		-	-	SPS (7 MLD) near Bhatpura Gate, Deepeshwar Talab	SPS (7 MLD) near Jain Gausala, Kila road
		No manhole with pumping was included	Newly added- One manhole with pumping station (MWPS) 0.10 MLD	Manhole (0.10 MLD) at Ward no. 19, near Govt. Secondary School, Gautam Nagar	Manhole (0.10 MLD) at Manpur
		No CRMC was included	1 CRMC has been added at Nagar Parishad Old Office premises	-	-
8	Banswara	No change in scope of works	No change in location		

9	Didwana	No Change in scope of works		No change in location	
10	Khetri	Water Supply Distribution network-44 km	Distribution network length increased from 44 km to 48.28 km	-	-
		Sewage collection network – 34.06 km	Sewer network length increased from 34.06 km to 34.45 km	-	-
11	Kuchaman	Transmission Mains-8 Km	Length of Transmission mains has been increased from 8 km to 8.65 km	-	-
		Water Supply Distribution network-321 km	Distribution network length increased from 321 km to 332.41 kms	-	-
		Sewage collection network Length: 160 km	Sewage collection network Length has been decreased from 160 km to 152.56 Km	-	-
12	Makrana	No Change in scope of works		No change in location	
13	Mandawa	Water Supply Distribution network-108.4km	Distribution network length increased from 108.4 km to 116.82 km	-	-
14	Ladnu	No Change in scope of works		No change in location	

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

11. Under RSTDSP all the statutory compliance 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 31/12/2022 WC Policy valid up to 30.03.2023	• 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. • Railway Crossing: Applied for Railway crossing permission vide letter no. RUIDP/PIU/RTG./	Labour License Valid up to 31/12/2022 WC Policy valid up to 30.03.2023	• PWD Road cutting near churu bus stand is required and it is under process with PWD Department	• 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
						6560-64 dated 27.07.21- Permission awaited.			
3		Laxmangarh Water Supply	Not required	Tree Cutting permission obtained for 4 trees at CWR site at Bad Ke Balaji, PHED campus and attached in Appendix-3	Not required	• National Highway Crossing: NIL • Railway Crossing: NIL	Labour License Valid up to 31/12/2022 WC Policy valid up to 30.03.2023	• Not required	• No Utility shifting is required up to this reporting period
4	RSTDIP/SRD/01	Sardarshah ar Water Supply and Sewerage	Not required	Tree Cutting permission obtained for 5 Trees at CWR and CRMC site at PHED campus. and attached in Appendix-3	Not required	• National Highway Crossing: NIL • Railway Crossing: permission obtained for Railway Crossing Vide letter no. 639W/PipeXing/Km46/4/SRDR /2021/03 dated 12.08.2021 for WW pipe line and vide letter no. 639W/ PipeXing/Km46/	Labour License Valid up to 31/12/2022 WC Policy valid up to 30.03.2023	• 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
						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 proposal no. FP/RJ/WATER/ 145797/2021 dated 13.08.2021. Permission is till awaited from	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 NHA for National Highway (NH-27) crossing- Permission awaited • Railway Crossing Permission obtained for Railway crossing vide letter no. W/220/1 dated 18.02.2022	Labour License Valid up to 31.12.2022 WC Policy valid up to 30.03.2023	• 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
			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 got 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 31.12.2022 WC Policy valid up to 30.03.2023	• DD Deposited to PWD for Road cutting permission), work started by contractor as advised by PWD. Permission Obtained	• No Utility shifting is required up to this reporting period
7	RSTDIP/PRT/01	Pratapgarh Sewerage	Not required	Tree Cutting permission obtained for 1 tree at STP site and 3 trees at CRMC sites and attached in Appendix-3	Not required	• National Highway Crossing: Permission obtained for National Highway 113 crossing vide	Labour License Valid up to 31.12.2022 WC Policy valid up to 24.11.2022	• Permission obtained for road cutting from PWD for 3 roads.	• 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
						Letter No. no.RW/JA/RJ/PS/ utility//2021/464/3 02-305 dated 29.04.2022 from Ministry of Road Transport & Highways • Railway Crossing: NIL			
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 31.12.2022 WC Policy valid up to 18.01.2023	• 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 Valid up to 31.12.2022 WC Policy- Valid up to 23.08.2023	• Not required (All roads are Municipal Roads)	• 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
10	RSTDIP/LDN-DID-MKN/01	Ladnu Sewerage	Not required	Presently no tree cutting required	To be accessed during detail design	- National Highway: NIL - Railway Crossing: NIL	Labour License Valid up to 31/12/2022 WC Policy-Valid up to 30.03.2023	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 31/12/2022 WC Policy-Valid up to 30-03-2023	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 dated 16.12.21 with plantation of trees with its thrice capacity	Not required	State Highway Crossing: Permission obtained for SH crossing from PWD vide letter no. PIU/ PPP /Laxmangarh/MM B/Utility/21-22/D-601 dated 11.01.2022 Railway Crossing: Applied to get	Labour License Valid up to 31/12/2022 WC Policy-Valid up to 30-03-2023	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
						permission for railway crossing vide letter no. LTCD/WET/WW/ SKS/LDN/2021-22/027 dated 18.09.2021 and RUIDP/PIU/MKN/ 462 on dated 08.08.2022. Permission Awaited			
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 31/12/2022 WC Policy- Valid up to 30.03.2023	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 31/12/2022 WC Policy- Valid up to 03-03-2023	Not required	No Utility shifting is required up to this reporting period

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
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
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.
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	Allotment of Land is pending
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
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
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
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 Applied, Approval from RSPCB Awaited
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		Near Kharia kua	CTE Issued, Valid from 17.02.2021 to 31.01.2026
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 Applied, Approval Awaited
24	Sardarshahar	2 MLD WSP		North Campus	CTE Applied, Approval Awaited
25	Banswara		6.75 MLD	WTP at Kagdi Pickup weir	CTE under Water Act will be applied soon
26	Banswara		10.40 MLD	AEN Campus	CTE under Water Act will be applied soon
27	Banswara	6.34 MLD WSP		Udaipur Road	CTE Applied, Approval Awaited

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 STPS		
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.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
	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	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
	Air(Prevention & 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
3.1 MLD STP, Khetri	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 850 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
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

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
	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 apply for separate consent to establish under the provisions of Air Act-1981 if there is proposal for any source of air emission	DG set may be only source of air pollution in WTP. Application for DG set under Air Act 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 is proposed 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

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
	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
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,	Noted and shall be complied if there is any change in capacity or addition/ modification/ alteration/ or change in product mix or

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
	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.	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 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 1135 Pratapgarh (STP site)	- Applicant shall cut the trees on his own expenses and within the stipulated duration. - 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.	Tree is cut at site and wood of tree is kept at site for further process Tree plantation shall be done by contractor.
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

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:	Being Complied- IEE and EMP is part of bid and contract documents of each project and being complied at site	Nil
	(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;		
	(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	BC	C	C	C	C	C	C	BC	BC	BC	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	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	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	- C - BC* - C	NA NA	- C - BC* - C	- C - BC* - C	- C - BC* - C	- C - BC* - C	- C - BC* - C	- C - BC* - C	- C - BC* - C	- C - BC* - C	- C - BC* - C	- C - BC* - C	- C - BC* - C	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	- BC - C	- BC - C	BC NA	- BC - C	- BC - C	- BC - C	- C - C	- C - C	- BC - C	- BC - C	- BC - C	- BC - C	- BC - C	- BC - 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	C	DBO Contract or/PIU/ PMCBC
Groundwater source - Source sustainability and over exploitation of groundwater: - Prepare a groundwater harvesting and artificial recharge plan; - Creation of artificial recharge pits in public places / public buildings. Local body can issue a notification to this effect. - Household level artificial recharge (like roof top rainwater harvesting) should be encouraged. - Groundwater regulation – options to close / discontinue all the tube wells in houses used for domestic purposes in Town in a phased manner once the project is implemented		NA	NA	NA	BC	NA	C	NA	NA	BC	BC	NA	NA	NA	NA	NA	DBO 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	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	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	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	C	NA	C	C	C	C	C	C	C	C	C	C	C	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	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	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	BC	BC	BC	BC	BC	BC	NA	BC	BC	BC	BC	BC	BC	BC	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 ○ 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	NA	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	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	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)														Responsibility	
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN		
- 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	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	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	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	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	
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
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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)															Responsibility
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN		
- 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 • Avoid/minimize use of fuels, chemicals and lubricants; ensure no spillage	• 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
- 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 pipeline routes and permanent infrastructure. Changes in	- 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
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 - Safety arrangement at intake site	C C TC* TC*	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	Work schedule	TC* (* To be complied during construction).	
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
Pre –Construction Phase			
Abu Road			
Works close to forest areas - Disturbance / damage to flora, fauna:	- Survey for bio-diversity near the works of intake, WTP close to forest areas - Locations of work camps	TC (Work of Intake well is yet to start)	DBO contractor/ PIU/Consultants

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Compliance Status	Responsibility
- 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	Work schedule	and design of intake well is under review) (will be complied before the start of work and during construction)	
Preparation of plans and protocols- Various impacts: (i) Prepare traffic management plan (ii) Prepare occupational health and safety plan (iii) Prepare spoils management plan	Site specific EHS plan covering all these plans	C	DBO Contractor
Banswara			
Preparation of plans and protocols- Various impacts: (i) Prepare traffic management plan (ii) Prepare occupational health and safety plan (iii) Prepare spoils management plan	Site specific EHS plan covering all these plans	C	DBO Contractor
Construction Phase			
Ratangarh			
Construction of CRMC at Main Ginani - Safe disposal of Solid waste accumulated at Ginani, workers and public safety (In Ratangarh): - 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;	- 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

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Compliance Status	Responsibility
- 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			
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 Pratappgarh): - 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	First Updated IEE Approved by ADB in Aug., 2021 and uploaded on ADB website link shared.
	Fatehpur Sewerage Works	Detail Design under process	✓				Yes	First Updated IEE Approved by ADB in Aug., 2021 and uploaded on ADB website link shared
	Laxmangarh Water Supply Works	Detail Design under process	✓				Yes	First Updated IEE Approved by ADB in Aug., 2021 and uploaded on ADB website link shared
RSTDIP/SRD/01	Sardarshahar Water Supply and Sewerage Works	Detail Design under process	✓				Yes	First Updated IEE Approved by ADB in Aug., 2021 and uploaded on ADB website link shared
RSTDIP/SHR-ABR/01	Sirohi Water Supply and Sewerage Works	Detail Design under process	✓				Yes	First Updated IEE Approved by ADB in Aug., 2021 and uploaded on ADB website link shared
	Abu Road Water Supply and Sewerage Works	Detail Design under process	✓				Yes	First Updated IEE Approved by ADB in Aug., 2021 and uploaded on ADB website link shared
RSTDIP/PRT/01	Pratapgarh Sewerage Works	Detail Design under process	✓				Yes	First Updated IEE Approved by ADB in Sept., 2021 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/ BNS/04	Banswara Water Supply and Sewerage Works	Detail Design under process	✓				Yes	Submitted Updated IEE on 07.09.2021 as per latest approved designs and shared with ADB
RSTDIP/ KTR/03	Khetri Water Supply and Sewerage Works	Detail Design under process	✓				Yes	Submitted First Updated IEE on 20.09.2021 as per latest approved designs and shared with ADB
RSTDIP/ MDW/03	Mandawa Water Supply and Sewerage Works	Detail Design under process	✓				Yes	Submitted First Updated IEE on 07.09.2021 as per latest approved designs and shared with ADB
RSTDIP/ KMN/02	Kuchaman Sewerage Works	Detail Design under process	✓				Yes	First Updated IEE Approved by ADB in Sept., 2021 and uploaded on ADB website
RSTDIP/ LDN-DID-MKN/01	Ladnu Sewerage Works	Preliminary Design Stage	✓				Yes	First Updated IEE Approved by ADB in October 2021 and uploaded on ADB website
RSTDIP/ LDN-DID-MKN/01	Didwana Sewerage Works	Detail Design under process	✓				Yes	First Updated IEE Approved by ADB in Sept., 2021 and uploaded on ADB website link shared
RSTDIP/ LDN-DID-MKN/01	Makrana Sewerage Works	Detail Design under process	✓				Yes	First Updated IEE Approved by ADB in Sept., 2021 and uploaded on ADB website link shared

Note: Draft IEEs are disclosed in RUIDP website- <https://urban.rajasthan.gov.in/content/raj/udh/ruidp/en/safeguard-policies/initial-environmental-examination--iee-reports/fordetails.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

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

NOTES

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

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

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

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

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

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

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

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	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}	PM2.5 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 of monitoring	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 10 towns (Banswara, Kuchaman, Didwana, Ladnu, Makrana, Khetri, Abu Road, Pratapgarh, Sardarshahar and Mandawa). Results of environmental monitorings (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 2022 to September 2022

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	Kuchaman	Construction	Air Quality, Noise Quality, Soil Quality	19.04.2022 to 22.04.2022	• STP Site - 1 • SPS Site - 02 • Pipe Laying Site - 1 (Budsu Road) • Storage Yard (L&T Store) • Pipe Laying Site (Suraj colony) • PHED Campus	• Air quality monitoring conducted at 6 locations and all results are within national standards for all parameters in all 6 locations. PM₁₀ (ranges from 75.0 to 92 µg/m³ and PM 2.5 (ranges from 36.0 to 50.0 µg/m³). PM₁₀ and PM_{2.5} 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 61.6 to 66.8 dBA and night time results ranges from 41.8 to 47.0 dBA. Results show that during day time, noise quality results were higher than the national standards as well as ADB SPS recommended standards for residential areas at all 6 locations whereas during night time results of Pipe laying site (near Budsu road) and PHED campus are higher and results for rest 4 locations are within prescribed limits as per both standards for residential area.
2.	Makrana	Construction	Air Quality, Noise Quality, Water quality and Soil Quality	22.04.2022 to 24.04.2022	• STP Site - 1 • SPS Site – 1 • SPS Site – 2 • Pipe Laying Site	• Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations. PM₁₀ (ranges from 79.0 to 89.0 µg/m³ and PM 2.5 (ranges from 40.0 to 46.0 µg/m³). PM₁₀ and PM_{2.5} 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 60.5 to 64.4 dBA and night time results ranges from 42.8 to 48.8 dBA. Results show that during day time, noise quality results were higher than the national standards as well as ADB SPS recommended standards for residential areas at all 4 locations whereas during night time results of SPS site – 2 are within prescribed limits and for rest 3 locations results were higher than the national standards as well as ADB SPS recommended standards for residential areas. as per both standards for residential area.
3.	Khetri	Construction	Air Quality, Noise Quality, Ground Water	23.04.2022 to 24.04.2022	• Near PHED office old • Near Ajeet Govt Hospital	• 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 62.10 to 79.05 µg/m³ and PM 2.5 (ranges

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
			Quality, Soil Quality		- Near UP Koshadhikari office - Near JEN Staff Colony - In Jai Singh Govt School - Near ITI College - Near Prashashnik Bhawan	from 32.6 to 39.6 $\mu\text{g}/\text{m}^3$) 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 55.1 to 41.1 dBA and night time results ranges from 40.3 to 47.3 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all locations whereas during night time at 3 locations i.e. Near PHED office old (43.2 dBA), In Jai Singh Govt. School (42.1 dBA) and at Near Prashashanik Bhawan (41.3 dBA), results were within prescribed limit as per both standards and at remaining 4 locations results (ranges from 45.3 dBA to 47.1 dBA) were higher than the national standards as well as ADB SPS recommended standards for residential areas.
4.	Didwana	Construction	Air Quality, Noise Quality, Water quality and Soil Quality	24.04.2022 to 25.04.2022	- STP Site - 1 - SPS Site - 1 - Pipe Laying Site - 1 - SPS Site - 2	- Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations. PM_{10} (ranges from 77.0 to 86.0 $\mu\text{g}/\text{m}^3$ and $\text{PM}_{2.5}$ (ranges from 33.0 to 45.0 $\mu\text{g}/\text{m}^3$). All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 4 locations. Day time results ranges from 58.7 to 64.8 dBA and night time results ranges from 40.1 to 49.0 dBA. Results show that during day time, noise quality results were higher than the national standards as well as ADB SPS recommended standards for residential areas at all 4 locations whereas during night time at two location i.e. STP site -1 (40.1 dBA) and SPS site - 1 (43.2 dBA) results are within prescribed limits as per both standards for residential area and results at remaining 2 locations were higher than the national standards as well as ADB SPS recommended standards for residential areas.
5.	Ladnu	Construction	Air Quality, Noise Quality, Water quality and Soil Quality	25.04.2022 to 26.04.2022	- STP Site - 01 - STP Site - 02 - Pipe Laying Site	Air quality monitoring conducted at 3 locations and all results are within national standards for all parameters in all 3 locations. PM_{10} (ranges from 84.0 to 89.0 $\mu\text{g}/\text{m}^3$ and $\text{PM}_{2.5}$ (ranges from 42.0 to 48.0 $\mu\text{g}/\text{m}^3$). PM_{10} and $\text{PM}_{2.5}$ values in all 3 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
						limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 3 locations. Day time results ranges from 61.4 to 64.4 dBA and night time results ranges from 42.0 to 48.1 dBA. Results show that during day time, noise quality results were higher than the national standards as well as ADB SPS recommended standards for residential areas at 3 locations whereas during night time, at 3 locations results are within prescribed limits as per both standards for residential area and at Pipe Laying site-1 results are higher than the national standards as well as ADB SPS recommended standards for residential areas
6.	Pratapgarh	Construction	Air Quality, Noise Quality, Ground Water Quality, Soil Quality	30.05.2022 to 31.05.2022	- STP Pratapgarh - CRMC II - Krishi Mandi Back side	- Air quality monitoring conducted at 3 locations in May 2022 and results are within national standards for all parameters in all locations, whereas PM₁₀ (ranges from 78.2 to 83.7 µg/m³) and PM_{2.5} (ranges from 37.7 to 41.2 µg/m³) values in all 3 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted in May 2022 at 3 locations and day time results range from 57.0 to 59.6 dBA. In all 3 locations results are higher than national standards as well as ADB SPS recommended standards for residential areas. On the other hand, Night time results ranges from 48.2 to 50.2 dBA which are higher than both the standards i.e. national standards and ADB SPS limits.
7.	Sardarshahar	Construction	Air Quality, Noise Quality, Water quality and Soil Quality	02.06.2022 to 05.06.2022	- STP 1 – (2.3 MLD) south campus - STP -2 (3.4 MLD) North Campus - PHED Campus (CWR – 2400 KL) - HDPE laying (DMA 4F) - HDD Pipe laying Near Bikaner Highway	- Air quality monitoring conducted at 6 locations and all results are within national standards for all parameters in all 6 locations. PM₁₀ (ranges from 71.2 to 84.5 µg/m³ and PM 2.5 (ranges from 28.4 to 33.9 µg/m³). PM₁₀ and PM_{2.5} 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 46.1 to 55.8 dBA and night time results ranges from 37.3 to 45.8 dBA. Results show that during day time, results are higher than national standards as well as ADB SPS recommended

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
					• SPS 2.3 MLD Gaushala land	standards for residential areas at all 6 locations whereas during night time at two locations results were slightly higher than the ADB SPS recommended standards for residential areas and for rest 4 locations night time results are within prescribed limits as per both standards for residential area.
8.	Abu Road	Construction	Air Quality, Noise Quality, Ground Water Quality, Drinking water and Soil quality	06.06.2022 to 07.06.2022	• Luniapura CWR • Manpur STP • Manpur CWR • Near STP & WTP Santpur • CWR site Market area	• Air quality monitoring conducted at 5 locations and results are within national standards for all parameters in all locations, whereas PM₁₀ (ranges from 68.40 to 73.8 µg/m³) and PM_{2.5} (ranges from 30.5 to 35.5 µg/m³) values in all 5 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. • Noise quality monitoring conducted at 5 locations and day time results range from 56.1 to 62.0 dBA. Day time results show that In all 5 locations results are higher than national standards as well as ADB SPS recommended standards for residential areas. Whereas results for night time except Near STP & WTP (48.3 dBA) Santpur location ranges from (41.2 dBA to 43.0 dBA) are within prescribed limits as per both standards for residential area.
9.	Mandawa	Construction	Air Quality, Noise Quality, Ground Water Quality, Soil Quality	02.07.2022 to 04.07.2022	• SPS – 1 PHED Campus Beside SPS Site • CWR site - 1 • STP Site – 1 • Pipe Laying Site (Dumra ki Dhani)	• Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM₁₀ (ranges from 65.7. to 75.2 µg/m³ and PM_{2.5} (ranges from 25.0 to 28.3 µg/m³) values in all 4 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. • Noise quality monitoring conducted at 4 locations. Day time results ranges from 50.4 to 55.7 dBA and night time results ranges from 40.8 to 45.0 dBA. Results show that during day and night time, noise quality results were within prescribed limit as per the national standards as well as ADB SPS recommended standards for residential areas at all 4 locations.
10.	Banswara	Construction	Air Quality, Noise Quality, Ground Water	01.04.2022 to 03.04.2022	• AEN Campus (PHED) WTP	• Air quality monitoring conducted in Banswara town at 6 locations and all results are within national standards for all parameters in all 6 locations, whereas PM₁₀ (ranges from 56.2. to 86.2 µg/m³ and PM

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
			Quality, Soil Quality		• Kagdi WTP Site • Existing STP Site • SPS At Nathelav pond • SPS at Pratapgarh Road • Housing Board Area	2.5 (ranges from 25.4 to 42.4 $\mu\text{g}/\text{m}^3$) results 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 6 locations. Day time results ranges from 46.0 dBA to 58 dbA and night time results ranges from 42.0 dBA to 48.0 dBA. Results show that during day time, noise quality results were higher than prescribed limit as per the national standards as well as ADB SPS recommended standards for residential areas at all 6 locations. Whereas during night time results were within prescribed limit as per the national standards as well as ADB SPS recommended standards for residential areas at all 4 locations except Existing STP Site (48.0 dBA) and SPS At Nathelav pond (46.0 dBA)

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 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	Summary of main findings during site visits	Action taken
1.	Banswara town: Person visited the Site: Dr. Mahaveer Saini, Environment Professional, CMSC-II, Jodhpur) Locations visited: 1. STP site 9.6 MLD 2. SPS at Sri Ram Colony 3. CRMC Building Khandu Colony 4. Pipe laying Site at Rai Talab 5. Pipe laying site at Indira Colony 6. Pipe laying site at Muslim Colony Date of site Visit: 05.04.2022 to 06.04.2022	1. STP site 9.6 MLD • Improper representation of Information Board. • Drinking water facility was available but no board was present regarding availability of drinking water • Improper Barricading around the excavated well for decanter in the STP • Some workers found without Helmet • Name board of establishment was missing • First Aid Box was missing	• Project details properly displayed on the information board • Drinking water board placed at site • Proper barricading done • Proper PPE use assured. • Working site provided with first aid box

S.N.	Town visited, date of visit and name of person conducted site visit	Summary of main findings during site visits	Action taken
		2. SPS at Sri Ram Colony - No Information Board - No Barricading around excavated soil 3. CRMC at Khandu Colony - No Information board of CRMC building 4. Pipe laying Site at Rai Talab - Information board not displaying proper information. 5. Pipe laying site at Indira Colony - Proper barricading was present 6. Pipe laying site at Muslim Colony - Workers were wearing PPE kits with Helmets - Proper barricading was noticed but Board for road diversion was missing	- Information board displayed and barricading done - Information board provided. - Information board updated - Good practice of barricading was being followed - Good practice of safety was being followed - Road diversion board provided (Photographs of action Taken are depicted in Appendix -1)
2.	Town: Khetri Person visited the Site: Mr. Vardan Srivastava, Environment professional & Mani Kumar, Safeguard Support (Environment & Safety), CMSC-I Locations visited: 1. Hanuman Gadi; Near SDM Office; Khetri 2. Jhawala Colony; Khetri: 3. Near Shani Temple; Khetri: 4. Jhojo Tank; Khetri: Date of site Visit: 06.07.2022	Jhawala Colony & Shani Temple - During site visit, a Main hole construction work in progress but excavated soil was dumped at excavated edge. - Workers working at site without Personal Protective Equipment's (PPE's) and no road side safety plan follow up at site. - Workers working at site without Personal Protective Equipment's (PPE's) - Project informative board displayed at site and Safety Signage board was noticed at site with emergency contact details and toll-free number. - In Summer, ORS pouches and glucose distributions for all site workers to prevent from heat stroke and even 1,2 hours working break during daytime. - For Site labours awareness program conduct on time to time	- EHS Officer, ensured excavated soil stored at least 1.5 m away from excavated edge. - EHS officer, ensured to conduct Tool Box Talk (TBT) or Pep Talk. All workers equipped with Protective Equipment's (PPE's). - All workers equipped with Protective Equipment's (PPE's) while working at site. - Good practices - Good practices - Good practices

S.N.	Town visited, date of visit and name of person conducted site visit	Summary of main findings during site visits	Action taken
		so that educate them about site specific Environment, Health and Safety standards.	(Photographs of action Taken are depicted in Appendix -1)
3.	Town: Ladnu Person visited the Site: Mr. Vardan Srivastava, Environment professional & Mani Kumar, Safeguard Support (Environment & Safety), CMSC-I Locations visited: 1. STP (5.5 MLD) Near Asota Village; Ladnu 2. Sewage Treatment Plant (2.40 MLD) at Sujangarh Road; Zone 2; Ladnu: 3. CRMC 02 Building nearby Railway Station; Ladnu 1. CRMC Building 02 (Near Court), Ladnu: 2. Sewer Laid (Sehriybas; Zone 2); Ladnu: 3. Near Govt. Hospital; Zone 1; Ladnu: 4. Concrete Casting (CC) Road Date of site Visit: 07.07.2022	STP (5.5 MLD) Near Asota Village • Unsafe access and egress point at SBR entry area. • At Cube tank storage area, an electrical meter attached with running electrical cable around water stagnant area. • Sand and other Aggregate material was dumped at site without proper covering. • DG set was found in unsafe condition at STP area, no hard barricading was found around it, Water logging on DG top surface due to improper roof fitting. • Improper material stacking was found at site. • Loose tin sheets material placed randomly on site. • Improper earth pit chamber was found at site. • Project informative board displayed at site and Safety Signage board was noticed at site with emergency contact details and toll-free number • Provide sufficient toilets and bathrooms (gender specific as per BOCW Act) with proper signage, cleanliness and water arrangement, provide other basic facilities for workers in camps, • Separate water camper facilities provided at site for water drinking purpose for labour at site, • Provided labour rest room facilities for all the labour workers at STP area, • Labour First aid facilities provided at site .	• Access and egress point made obstruction free and proper scaffolded step walkway provided at entry point. • No electrical connectivity at water logging area and naked electrical wire removed . Electrical meter placed on wooden cardboard stand at appropriate distance. • Aggregate and sand storage material kept at site with proper green net coverage and proper tarpaulin protection. • Proper hard barricading provided at DG set area with precautionary signage board at appropriate distance. • Material placed at safe storage area with proper material stacking. • Loose tin sheet material removed from site, • Earthing pit covered and displayed with inspection information on chamber area. • Good practices Good practices Good practices Good practices Good practices (Photographs of action Taken are depicted in Appendix -1)

S.N.	Town visited, date of visit and name of person conducted site visit	Summary of main findings during site visits	Action taken
4.	Town: Sardarshahar Person visited the Site: Dr. Mahaveer Saini, Environment Professional, CMSC-II, Jodhpur) Location: 2.3 MLD STP 3.4 MLD SPS site, - Labor Camp Date of site Visit: 09.08.2022	2.3 MLD STP site, Sardarshahar - First Aid Box and Drinking water safety facilities - Good house keeping - Good arrangement of scaffold at TESR 3.4 MLD STP site - First Aid Room with one bed was observed at STP site. Labor Camp Site Following facilities were observed at Labour Camp: 6 male and 6 female toilets, 4 male bathrooms and 4 female bathrooms, 10 nos. kitchens and one COVID-19 quarantine room with 4 nos. beds.	- Good practice and it should be maintained - Good practice and it should be maintained - Good practice and it should be maintained 3.4 MLD STP site - Good practice and it should be maintained Labor Camp Site - Good Practice, required facilities at labor camp are maintained
5.	Town: Khetri Person visited the Site: Mr. Vardan Srivastava, Environment professional & Mani Kumar, Safeguard Support (Environment & Safety), CMSC-I Location: - Shastri Nagar; Zone3; Ice Factory Road; Khetri - Old Jail; Zone 2; Khetri: - Near Shani Temple;Todi Mohella ;Khetri - AEn Campus; Zone 4; Khetri: (i) CWR (500 KL); (ii) MCC Building; (iii) CRMC Building & CCC Building; - Stock Yard;Khetri Date of site Visit: 24.08.2022.	AEn Campus; Zone 4 - Workers working at site without Personal Protective Equipment's (PPE's). - At site, it was found that during Plinth reinforcement binding work went on their used shuttering material was supported by 45° inclined Wooden Post and In-appropriated Prop-jack. - It was found that Worker working at height without Full Body Harness (FBH). - At site, it was found that stone masonry material was dumped on road side area. - Poor housekeeping was found in building area. - Non- standard scaffold material was found at site. Wooden plank and temporary MS pipe material arrangement establish for height work activity that may lead to major accident. - Concrete mixing machine was found at site without safeguard protection cover and no vehicle chowk was placed at foot rest area to prevent to move in working condition.	AEn Campus; Zone 4 - Tool Box Talk (TBT) or Pep Talk is conducted prior to Site-specific activity. All workers equipped with Protective Equipment's (PPE's) - Only MS Prop-Jack with adequate locking pin point are used at site with proper base support of base plate and thick sole plate. - Full Body Harness (FBH) made necessary while working at height - Earth work material dumped at construction and demolition (C&D) yard. - Proper housekeeping ensured. - Standardized scaffold (Coupler, MS Pipe etc.) arrangement made. - Heavy machineries placed at safe place with proper safeguard protection cover and proper soft barricading tape around the machine.

S.N.	Town visited, date of visit and name of person conducted site visit	Summary of main findings during site visits	Action taken
		- Sand and other Aggregate material was dumped at site without proper covering. - Only soft barricading is provided at deep excavated structural area. - Workers were living at AEn campus: No Mobile Toilet placed at site, No Bed facilities provided for labour in Labour camp, No Room Ventilation Facilities. - Electrical cable wire was found on ground level - Improper material stacking at steel yard area. Material was dumped randomly at work site area. - Spade was found in damage condition - Non standard ladder was found at site which used at site for height work movement. - Open residential working condition was found at structural activities area. - Worker was found cutting rebar without hand gloves and without protective face shield cover. - Temporary hard barricading is provided at deep excavated structural area on road side. - Project informative board displayed at site in in-appropriate manner. It was dumped behind structural side wall. Shastri Nagar; Zone3; Ice Factory Road - Workers working at site without Personal Protective Equipment's	- Aggregate and sand storage material kept at site with proper green net coverage or proper tarpaulin protection to avoid unwanted air pollution. - Proper hard barricades with dust protected green net provided with proper safety signage board displayed at site. - Sufficient toilets and bathrooms (gender specific as per BOCW Act) with proper signage, Separate water camper facilities provided at site for labour at site. Bed facilities for all labour workers at labour campus area, Provided. - All electrical cable above ground level with insulated outer protection cover assured. - Steel yard area properly barricaded with displayed signage board with outer protective cover. - All hand tools kept properly in good condition with gripped FRP handle. - Standardized aluminium ladder is being used for height work movement. - Structural work activity areas guarded with long height green net protection - All worker provided job specific training at site and provided with adequate safety hand gloves and face shield. - Proper hard barricades with dust protected green net all around the excavation area along with proper safety signage board displayed at site. - Project Informative board displayed in proper manner in front side of structural working area. - All workers equipped with Protective Equipment's (PPE's) while working at site. Free walkway provided to move.

S.N.	Town visited, date of visit and name of person conducted site visit	Summary of main findings during site visits	Action taken
		(PPE's) And obstructed access and egress point. - No access and egress point to move. - JCB Operator was working at the site without proper Personal Protective Equipment's (PPE's) and first aid box was not found inside JCB cabin. Near Shani Temple; Todi Mohalla - Workers working at site without Personal Protective Equipment's (PPE's) And obstructed access and egress point. - Diesel Generator was used at site for CC road vibrator power supply. DG set was found in unsafe condition without safeguard cover outside the generator body. There is chance of major body part injury. Stock Yard - Improper material stacking was found at site. DI Pipe, HDPE pipes of different diameter and other construction useful material was dumped randomly at stock yard area. Poor housekeeping was found at site bunches of herbs and shrubs was found in stock yard area. - Improper material stacking was found at site. MS Pipes and other construction useful material was dumped randomly at stock yard area. - All hazardous material like cement, paint and oil was found placed openly along with all other material. - No access point to approach cement stock yard. - Improper fire point	- Access and egress point provided - Safe vehicle movement training and proper PPE's provided. First aid box inside the cabin provided. - All workers equipped with Protective Equipment's (PPE's) while working at site. - DG set properly guarded with outer protective cover. - Proper material stacking assured with proper stacking arrangement and covered with tarpaulin. - Proper material stalking assured with proper stacking arrangement - Hazardous material placed at hazardous room with tarpaulin and oil and paint material placed separately in other hazardous room with proper fire extinguisher and sand bucket arrangement outside at the storage area. - Stock yard areas provided with safe access and egress point to move without any obstruction. - All fire point equipped with CO₂ fire extinguisher and ABC fire extinguisher with hanged sufficient sand buckets. - tested material dumped at construction and demolition (C&D) yard.

S.N.	Town visited, date of visit and name of person conducted site visit	Summary of main findings during site visits	Action taken
		• At site, it was found that tested cube material was dumped randomly at stock yard area. • Security guard was working at the site without proper Personal Protective Equipment's (PPE's).	• Security guard was oriented with site specific training and proper Personal Protective Equipment's (PPE's) provided. (Photographs of action Taken are depicted in Appendix -1)

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 Banswara, Khetri, Ladnu, Sardarshahar, Sirohi and Abu Road 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 specialists-

Table 22- Safeguard Orientations Done by Safeguard specialists of PMCBC/CMSC during April 2022 to September 2022)

S. No.	Orientation/ Training	Date	Demonstrators	Participants
1. Banswara Town				
	Orientation regarding requirements of environmental safeguard during project implementation	06.04.2022	Dr. Mahaveer Prasad Saini (Environment Safeguard Professional, CMSC -2)	PIU: 1. Mr. Ashok Jangid (Executive Engineer, PIU, Banswara) Consultant (CMSC-I): 1. Dr. Mahaveer Prasad Saini, Environmental Safeguard Professional, CMSC-2 Jodhpur 2. Mr. Amit Kumar Chauhan (Environment and Safeguard Support CMSC-2, Banswara) 3. Mr. Ankur Saini Support Engineer- CMSC-2, Banswara Contractor's team (BIPL SC HP): 1. Mohd. Shahid, Project In charge; BIPL SC HP 2. Kenal Sayuj, Project Coordinator, and Liaison Officer, BIPL SC HP) Total Participants- 06 Male-06 Female-0
2. Khetri Town				
	Orientation regarding requirements of environmental safeguard during project implementation	06.07.2022	Mr. Vardan Srivastava, Environment Specialist, CMSC-I and Mr. Mani Kumar (Safeguard Support (Env. & Safety); CMSC-I)	PIU: Consultant (CMSC-I): 1. Mr. Vardan Srivastava, Environmental Safeguard Professional, Jaipur. 2. Mr. Avinash; Support Engineer, CMSC-01, Khetri 3. Mr. Pankaj Kumar, Support Engineer, CMSC-01, Khetri 4. Mr. Mahaveer Joshi, DEO, CMSC-01, Khetri 5. Mr. Mani Kumar (Safeguard Support (Env. & Safety); CMSC-I; Jaipur. Contractor's team (L& T): 1. Mr. Anil Kr. Meena; EHS Officer, M/s Lahoty – LNA (JV), Khetri Total Participants- 08 Male-08 Female-0
3. Ladnu Town				

S. No.	Orientation/ Training	Date	Demonstrators	Participants
	Orientation regarding requirements of environmental safeguard during project implementation	07.07.2022	Mr. Vardan Srivastava, Environment Specialist, CMSC-I and Mr. Mani Kumar (Safeguard Support (Env. & Safety); CMSC-I).	PIU: 1. Mr. Jitendra Singh; JEn., PIU, RUIDP, Ladnu. Consultant (CMSC-I): 1. Vardan Srivastava, Environmental Safeguard Professional, Jaipur. 2. Mr. Sher Mohammed; Support Engineer, Ladnu 3. Mr. Kapil Soni; Support Engineer, Ladnu Contractor's team (L& T): 1. Mr. Jeevan Kumar; EHS Officer; M/s L&T; Sardarshahar. 2. Mr. Anil Choudhary; Safety Stewards, M/s L&T, Ladnu Total Participants- 12 Male-10 Female-02
4. Sardarshahar Town				
	Orientation regarding requirements of environmental safeguard during project implementation	09.08.2022	Dr. Mahaveer Prasad Saini (Environment Safeguard Professional, CMSC -2	PIU: 1. Mr. M.C. Gupta; EXn., PIU, RUIDP, Sardarshahar. 2. Mr. Dinesh Kumar; JEn., PIU, RUIDP, Sardarshahar. Consultant (CMSC-I): 1. Dr. Mahaveer Prasad Saini, Environmental Safeguard Professional, Jodhpur. Contractor's team (L& T): 1. Mr. Amit Kumar; Planning In Charge; M/s , L&T; Sardarshahar. 2. Mr. Rakesh Sahu; EHS Officer; M/s L&T; Sardarshahar. 3. Mr. Monish Khan; Safety Supervisor L&T, Sardar Shahar 4. Mr. Ratnesh Kumar Singh; L&T, Site Engineer, Sardar Shahar Total Participants- 10 Male-08 Female-02
5. Sirohi Town				
	Orientation regarding requirements of environmental safeguard during project	17.08.2022	Dr. Mahaveer Prasad Saini (Environment Safeguard Professional, CMSC -2	PIU: 1. Mr. Manish Arora (SE, PIU RUIDP Sirohi) Consultant (CMSC-I): 1. Dr. Mahaveer Prasad Saini, Environmental Safeguard Professional, Jodhpur.

S. No.	Orientation/ Training	Date	Demonstrators	Participants
	implementat ion			2. Mr. Amit Chouhan (Env. Support CMSC-2) 3. Mr. S. Natrajan (SCE, CMSC-2, Sirohi), 4. Support Engineers CMSC-2 Contractor's team (L& T): 1. Mr. C.P. Rajesh (Project Manager-L&T, Sirohi), 2. Mr. Satish (EHS Officer, L&T), Total Participants- 07 Male-07 Female-0
6. Abu Road				
	Orientation regarding requirement s of environment al safeguard during project implementat ion	18.08.2022	Dr. Mahaveer Prasad Saini (Environment Safeguard Professional, CMSC -2	PIU: Ex. En-RUIDP PIU Abu Road, Consultant (CMSC-I): 1. Dr. Mahaveer Prasad Saini, Environmental Safeguard Professional, Jodhpur. 2. Mr. Amit Chouhan (Env. Support CMSC-2) 3. Mr. Upender Gour (ACM, CMSC-2 Abu Road 4. Mr. Hemant Singh Tanwar (Support Engineers CMSC-2 Abu Road) Contractor's team (L& T): 1. Mr. Monuj Kumar (EHS Officer, L&T Abu Road), Total Participants- 11 Male-11 Female-0
7. Banswara				

S. No.	Orientation/ Training	Date	Demonstrators	Participants
	Orientation regarding requirements of environmental safeguard during project implementation	20.08.2022	Dr. Mahaveer Prasad Saini (Environment Safeguard Professional, CMSC -2	PIU: Mr. Hansram Meena (S.E. RUIDP PIU-Banswara), Consultant (CMSC-I): 1. Dr. Mahaveer Prasad Saini, Environmental Safeguard Professional, Jodhpur. 2. Mr. Dinesh Parmar (ACM, CMSC-2 Banswara), 3. Support Engineers CMSC-2, Banswara Contractor's team (L& T): 1. Mr. Murgendra Trivedi (Project Manager -BIPLSCHP JV) Total Participants- 05 Male-05 Female-0
8. Pratapgarh Town				
	Orientation regarding requirements of environmental safeguard during project implementation	20.08.2022	Dr. Mahaveer Prasad Saini (Environment Safeguard Professional, CMSC -2	PIU: 1. Mr. Shahikant Sharma (Assistant Engineer RUIDP) and 2. Mr. Madan Lohar (Junior Engineer RUIDP), Consultant (CMSC-I): 1. Dr. Mahaveer Prasad Saini, Environmental Safeguard Professional, Jodhpur. 2. Mr. Kh. Damudor Singh (SCE, CMSC-2 Pratapgarh), 3. Support Engineers CMSC-2, Banswara Contractor's team (L& T): 1. Mr. Lalit Trivedi (Project Manager -KIPL) and Total Participants- 06 Male-06 Female-0
9. Khetri Town				
	Orientation regarding requirements of environment	24/08/2022	Mr. Vardan Srivastava, Environment Specialist, CMSC-I and	PIU: Consultant (CMSC-I): 1. Mr. Vardan Srivastava, Environmental Safeguard Professional, Jaipur.

S. No.	Orientation/ Training	Date	Demonstrators	Participants
	al safeguard during project implementat ion		Mr. Mani Kumar (Safeguard Support (Env. & Safety); CMSC-I)	2. Mr. Vijay Pal, Assistant Construction Manager (ACM), CMSC-01, Mandawa 3. Mr. Chandan Lal, Senior Construction Engineer (SCE), CMSC-01, Khetri 4. Mr. Mani Kumar (Safeguard Support (Env. & Safety); CMSC-I; Jaipur. 5. Mr. Avinash, Support Engineer, CMSC-01, Khetri 6. Mr. Pankaj Kumar, Support Engineer, CMSC-01, Khetri Contractor's team (L& T): 1. Mr. Anil Kumar Meena, Project Manager, M/s Lahoty – LNA (JV), Khetri. 2. Mr. Raj Kapoor Meena, EHS Officer, M/s Lahoty – LNA (JV), Khetri Total Participants- 10 Male-10 Female-0

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 specialist 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 2022 to SEPTEMBER 2022

S. No.	Date and place of consultation	Works being executed at/near site	Persons consulted	Topics discussed during consultation	Outcome of consultation
1.	06.04.2022 Public Consultation was conducted at Teliwara Prathawi Gang Road, Banswara	Proposed Water supply pipe laying work	Nearby residents (Shopkeeper) Male- 04 Female- 00	Proposed Water Supply Subproject.	- All Information's were provided to nearby residents. - Residents were informed about the benefit they will ultimately get from the project. - Residents were satisfied with Workers/supervisors/ Engineers co-operation.
2.	06.07.2022 Public Consultation was conducted at New STP land 3.15 (MLD), Khetri	Proposed Water supply pipelaying work	Nearby residents Male- 08 Female- 00	Proposed Water Supply and sewerage Subproject.	- All Information's were provided to nearby residents - Residents were informed about the benefit they will ultimately get from the project - Residents were satisfied with Workers/supervisors/ Engineers co-operation
3.	07/07/2022 at Sehriybas (Sewer Laid); Zone 2; Ladnu	Sewerage Laid work went on	Nearby residents; Male- 10 Female- 02	- Any Grievance due to laying of Sewerage pipeline. - Pre-construction information about nature, difficulties, duration of work. - Inconvenience due to Pipe laying work. - Project Information about contact details.	- Local residence are satisfied with project site work and appreciate the site work. - All Information were provided to nearby residents. - Residents were satisfied with the arrangements done for the ease of residents during pipe laying. - SOT team work visited time to time.

S. No.	Date and place of consultation	Works being executed at/near site	Persons consulted	Topics discussed during consultation	Outcome of consultation
4.	10/08/2022 at Aaganbadi Kendra, near main Ginani; Ratangarh	Sewerage and Water line Laying Work in progress	Nearby residents; Total=15, Male-15, Female-0	• Open drain/Open Nala that feed storm water into main Ginani. • Prevailing status of sanitation and sewerage system. • Involvement of locality for better execution. • Briefing on subproject objectives. • Potential positive and negative impacts due to project implementation. • If impact on livelihood. • Inconvenience to public.	• Participants have shown their willingness and support subproject storm water drainage because water logged during rainy seasons in low areas. • Local Ward Parsad gave his views to cover the existing main drain of main Ginani. • Temporary impacts: No interruption in commercial activity, breakage of other utility line, safety for pedestrian etc. • Improvement in environment, health and hygiene etc. • Any unanticipated impact, will be compensated as per Entitlement Matrix.
	10.08.2022 near BNSL Ginani, Ratangarh	Sewerage and Water line Laying Work in progress	Residents residing near proposed SWPS near BSNL Ginani Total=8, Male-8, Female-0.	• Existing underground pipe line in the drainage system and need of replaced the existing pipelines and pumping stations. • Prevailing status of sanitation and sewerage system. • Need of the Subproject. • Briefing on subproject objectives. • Potential positive and negative impacts due to project implementation. • If impact on livelihood. • Inconvenience to public.	• To change to existing underground pipe line in the drainage system because these line are very old and dia of these pipelines are not sufficient to pump out the storm water from Ginanis. • Participants have shown their willingness and support subproject storm water drainage because water logged during rainy seasons in low areas. • Temporary impacts: No interruption in commercial activity, breakage of other utility line, safety for pedestrian etc. • Improvement in environment, health and hygiene etc. • Any unanticipated impact, will be compensated as per Entitlement Matrix.
	10.08.2022	Sewerage and Water line	Residents residing near	• Capacity of existing drainage pumping	• Water submerging condition and water borne

S. No.	Date and place of consultation	Works being executed at/near site	Persons consulted	Topics discussed during consultation	Outcome of consultation
	near Saraf Well, Ratangarh	Laying Work in progress	Saraf Well, Ratangarh Total=6, Male-6, Female-0	station and drainage pipeline. - Existing underground pipe line in the drainage system and need of replaced the existing pipelines and pumping stations. - Prevailing status of sanitation and sewerage system - Need of the Subproject - Briefing on subproject objectives - Potential positive and negative impacts due to project implementation - If impact on livelihood. - Inconvenience to public.	disease during monsoon season. - To change to existing underground pipe line in the drainage system because these line are very old and dia of these pipelines are not sufficient to pump out the storm water from Ginanies. - Participants have shown their willingness and support subproject storm water drainage because water logged during rainy seasons in low areas. - Temporary impacts: No interruption in commercial activity, breakage of other utility line, safety for pedestrian etc. - Improvement in environment, health and hygiene etc. - Any unanticipated impact, will be compensated as per Entitlement Matrix.
5.	24.08.2022; Shani Temple, Todi Mohalla; Khetri		Residents residing near Shani Temple, Todi Mohalla; Khetri Total=7, Male-7, Female-0	Proposed Water Supply and sewerage Subproject.	- All Information's were provided to nearby residents - Residents were informed about the benefit they will ultimately get from the project - Residents were satisfied with Workers/supervisors/ Engineers co-operation
	24.08.2022; Shastri Nagar; Zone3; Ice Factory Road; Khetri		Residents residing near Shastri Nagar; Zone3; Ice Factory Road; Khetri Total=4, Male-4, Female-0	- Pre-construction information about nature, difficulties, duration of work. - Inconvenience due to Pipe laying work. - Project Information about contact details. - People were making complaints that no	- All Information were provided to nearby residents - Residents were satisfied with the arrangements done for the ease of residents during pipe laying - Already provided - Residents were satisfied with Workers/ supervisors/ Engineers co-operation.

S. No.	Date and place of consultation	Works being executed at/near site	Persons consulted	Topics discussed during consultation	Outcome of consultation
				access for vehicles was left since last 5-6 days. • Co-operation of Workers/supervisors/Engineers during work.	

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

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.

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 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

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.

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.

of grievance registration, in addition to the project GRM.¹¹ Careful documentation of the name of the complainant, date of receipt of the complaint, address/contact details of the person, location of the problem area, and how the problem was resolved will be undertaken and feedback provided to the complainant on action/decision taken. The Safeguard and Safety Officer of town/city level PIU will have the overall responsibility for timely grievance redressal on environmental and social safeguards issues and for registration of grievances, related disclosure, with the assistance of project consultants. In case of grievances that are immediate and urgent in the perception of the complainant, the contractor, and officials of PIU with assistance from construction management and supervision consultants (CMSC) and CAPPC on-site will provide the most easily accessible or first level of contact for quick resolution of grievances. Contact numbers and names of the concerned PIU safeguard and safety officer, contractors, CAPPC and CMSC personal will be posted at all construction sites at visible locations.

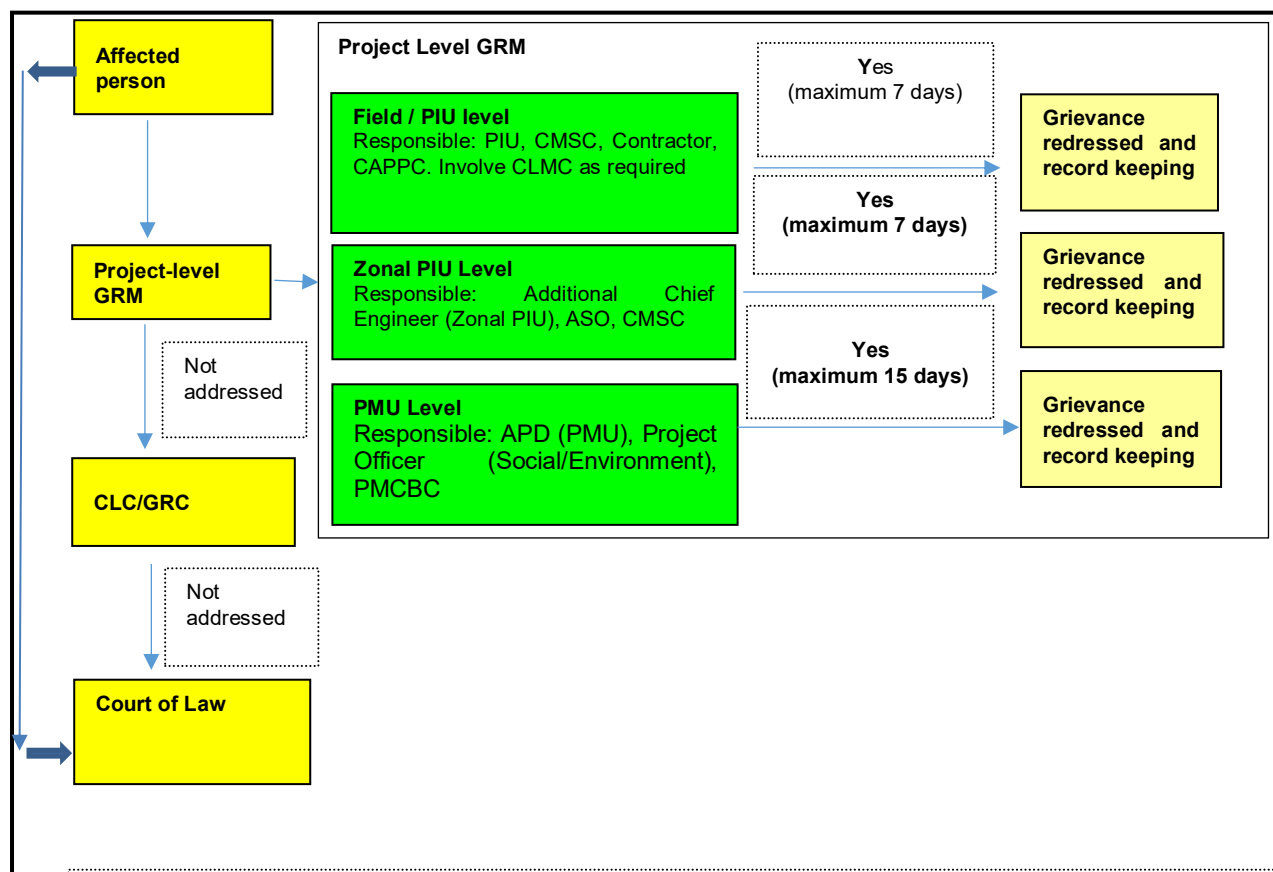
- (i) **1st level grievance.** The contractors, PIU Executive Engineer (EE)/Assistant Engineer (AE) designated as safeguard and safety officer (social and environment), CMSC (safeguard staff) and CAPPC can immediately resolve issues on-site, in consultation with each other and will be required to do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

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

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

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

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

Figure 2: Grievance Redress Mechanism-RSTDSP

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

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

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

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**-

Table- 24: Details of GRC Members

GRC Members (Grievance redressal committee members)								
Town Name	1st Level GRC Members					2nd Level GRC Members	3rd Level GRC Members	
	Contractor (Project Manager)	Executive Engineer, PIU	Safeguard and Safety Officer (SSO), PIU	Environment Safeguard -, CMSC	Social Safeguard, CMSC		Project Officer, Environment, PMU	Project Officer, Social, PMU
Ratangarh	Mr. Bhanu Pratap Raghuvanshi	Mr. R.D. Garg	Mr. Deepak Mandan	Dr. Mahaveer Saini	Mr. Rajeev Sharma	Mr. S.K. Verma, Zone-Jodhpur	Mr. Vijay Choudhary	Mr. K M Manda wariya
Fatehpur	Mr. Madheshwar Kumar	Sh. Manoj Mittal, E.E.	Mr. Manoj Mittal, E.E.					Retired on 30.06.2022
Laxmangarh	Mr. Madheshwar Kumar	Sh. Manoj Mittal, E.E.	Mr. Surendra Godra					Mr. Anil Vijaywargiya
Sardar shahar	Mr. Rishi Kumar Sakalley	Mr. R.D. Garg (on Additional Charge)	Mr. Dinesh Fogat					
Abu Road	Mr. Pankaj Biswas	Mr. Mahendra Samdhani	Mr. Sunil Vishnoi					

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

GRC Members (Grievance redressal committee members)								
Town Name	1st Level GRC Members					2nd Level GRC Members	3rd Level GRC Members	
	Contractor (Project Manager)	Executive Engineer, PIU	Safeguard and Safety Officer (SSO), PIU	Environment Safeguard -, CMSC	Social Safeguard, CMSC		Project Officer, Environment, PMU	Project Officer, Social, PMU
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					
Kuchaman	Mr. Shahnavaz Hussian	Mr. Mahesh Gupta	Mr. Jitendra Meena	Mr. Vardan Srivastava	Mr. Nasir Hussain	Mr. Kapil Gupta		
Ladhun	Mr. S.K.Singh	Mr. Deepak Mandan	Mr. Jitendra Choudhary					
Makrana	Mr. S.K.Singh	Mr. Deepak Mandan	Mr. Deepak Mandan					
Didwana	Mr. S.K.Singh	Mr. Deepak Mandan	Mr. Jitendra Choudhary					
Khetri	Mr. Anil kumar Meena	Mr. Dinesh Kumar Verma	Mr. Devendra Saini					
Mandawa	Mr. Karri Bhujanga Rao	Mr. Dinesh Kumar Verma	Mr. Devendra Saini (On additional Charge)					

44. During April 2022 to September 2022, no grievances related to environment was received Status of grievances during reporting period is given in **Appendix 6**.

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 2022, contracts for all 14 project towns have been awarded (Ratargarh, Laxmargarh 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).

52. IEEs of 10 project towns have been updated as per approved design status and changed scope of works/locations and submitted to ADB for further review and approval. Updated IEE for Ratangarh, Sardarshahar, Fatehpur, Laxmangarh, Abu Road, Sirohi, Pratapgarh, Kuchaman, Didwana, Makrana towns have been approved by ADB and uploaded on web portal.

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. CTE for proposed construction of STPs and WTPs are being applied before start of any construction activities at site. There are total 19 STPs and 3 WTPs proposed for construction in all 14 towns, thus total 22 WTPs/WTPs required CTE. Up to September 2022, total 21 applications for CTEs were submitted out of which 20 CTEs have been issued by RSPCB. Application for other pending CTEs is required before start of construction works at sites. Other contractual and legal compliances are being fulfilled in all project towns.

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	PIU/CMSC-2	01.08.2022
Land Issues of project components	Ladnu- Land for STP 2.4 MLD at Vishwanathpur: Land allotted at Sujangarh road and CTE applied. Sardarshahar- Land for STP 1.6 MLD at Gandhi Vidya Mandir's land: Being pursued by PIU, Sardarsahar	PIU, Ladnu PIU, Sardarshahar	At earliest At earliest
Environmental monitoring was not conducted in few towns	Conduct ambient environmental monitoring as per the EMP in following packages- Sirohi and Ratangarh	DBO contractor	Immediate

APPENDIX 1: PHOTOS OF SITE VISITS AND CONSTRUCTION WORKS

Banswara Town (Site visited on dated 06.04.2022)	
	
Drinking water facility was available but no board was present regarding availability of drinking water at 9.6 MLD STP site, Banswara	Workers were wearing PPE kits with Helmets at Pipe laying site Muslim Colony
	
Proper barricading was present at Pipe laying site Indra Colony	

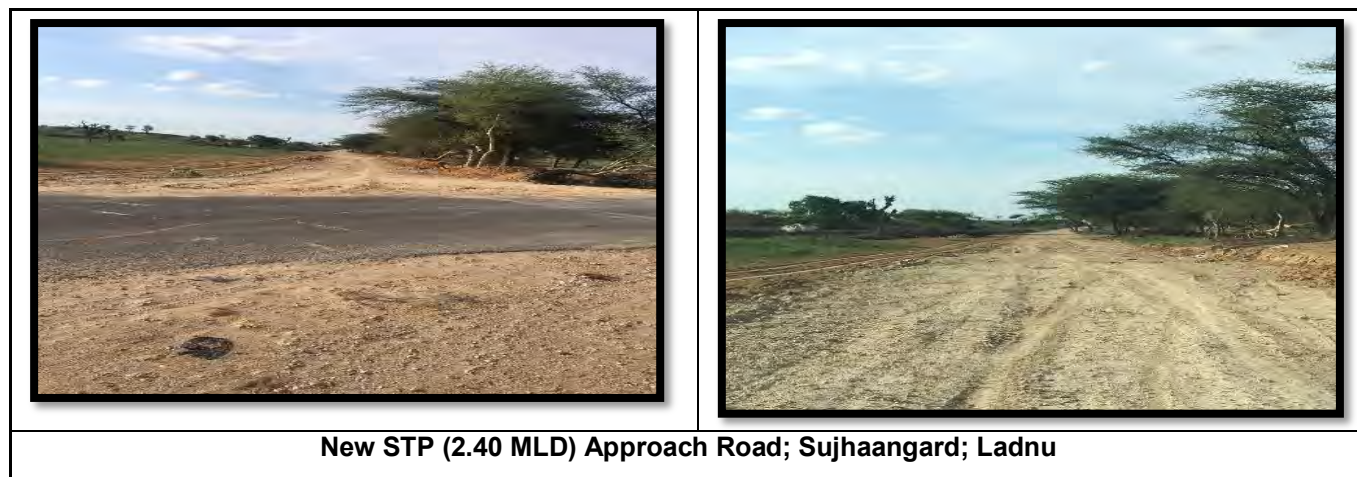
Khetri Town (Site Visited on dated 06.07.2022)

		
Project informative board displayed at site and Safety Signage board was noticed at site with emergency contact details and toll-free number	In Summer, ORS pouches and glucose distributions for all site workers to prevent from heat stroke and even 1,2 hours working break during daytime	For Site labours awareness program conduct on time to time so that educate them about site specific Environment, Health and Safety standards.

Ladnu town (Site Visited on dated 07.07.2022)

		
DG set was found in unsafe condition at STP area, No hard barricading was found around it, Water logging on DG top surface due to improper roof fitting.	Proper hard barricading provided at DG set area with precautionary signage board at appropriate distance. And provide proper tin shading with tilted roof top and placed fire extinguisher at appropriate distance.	Project informative board displayed at site and Safety Signage board was noticed at site with emergency contact details and toll-free number
		
Separate water camper facilities provided at site for water drinking purpose for labour at site,	Labour First aid facilities provided at site	Labour rest room facilities are provided for all the labour at STP area

STP (2.40 MLD) Approach & Existing Land





New STP (2.40 MLD) Existing Land; Ladnu

Sardarshahar Town (Site visited on dated 09.08.2022)



Good arrangement of scaffold at TESR at 2.3 MLD STP site, Sardar Shahar



Good housekeeping at 2.3 MLD STP site, Sardar Shahar



First Aid Room with one bed was observed at STP site at 3.4 MLD STP Site



First Aid Box and Drinking water safety facilities at 2.3 MLD STP site, Sardar Shahar

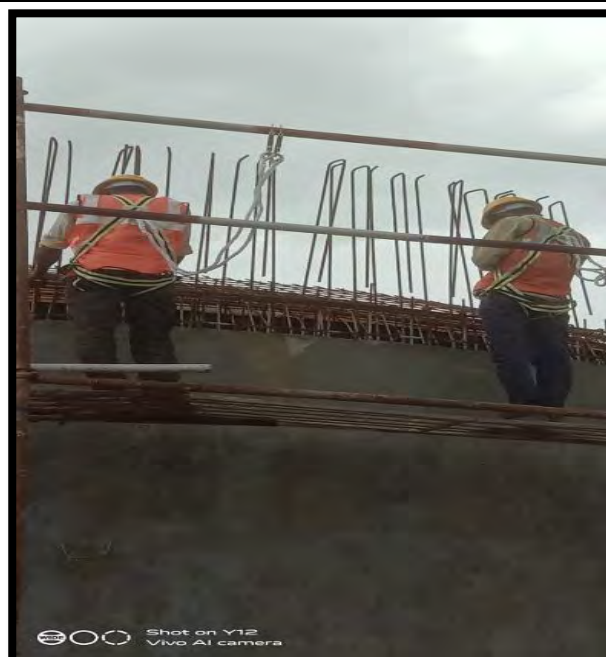
		
Separate Toilet Facility at labor Camp:	Separate Bathroom Facility at labor Camp:	Separate Kitchen Facility at labor Camp:

Khetri Town (Site Visited on dated 24.08.2022)

AEn Campus; Zone 4; Khetri



EHS officer, ensure that before execute any site-specific activity must conduct Tool Box Talk (TBT) or Pep Talk. All workers equipped with Protective Equipment's (PPE's)



On site, it was found that Worker working at height without Full Body Harness (FBH).

Action Taken: Complied: workers using Full Body Harness (FBH) while working in height



Only soft barricading is provided at deep excavated structural area.



Action Taken: Proper hard barricades with dust protected green net around the excavation area provided with proper safety signage board.



Electrical cable wire was found on ground level



Action Taken: All electrical wirings removed from ground and provided with insulated outer protection cover



Improper material stacking at steel yard area. Material was dumped randomly at work site area.



Action Taken: Steel yard area properly barricaded with displayed signage board with outer protective cover



Non standard ladder was found at site which used at site for height work movement.

Action Taken: Standardized aluminium ladder is provided for height work movement.



Project informative board displayed at site in inappropriate manner. It was dumped behind structural side wall.

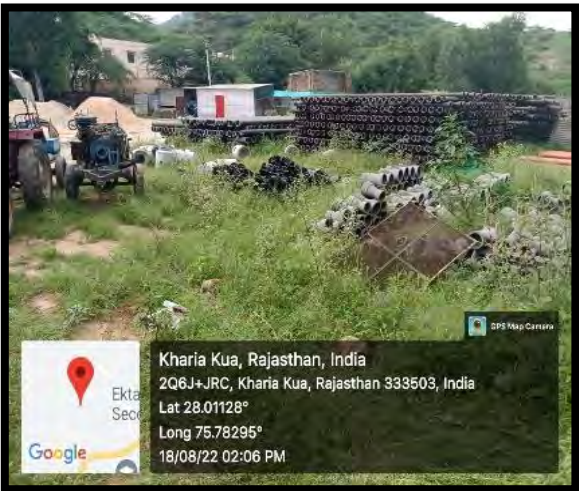
Complied: Project Informative board displayed in proper manner at structural working area.

Shastri Nagar; Zone3; Ice Factory Road; Khetri



Workers working at site without Personal Protective Equipment's (PPE's) And obstructed access and egress point.

Action Taken: Safety training provided and all workers equipped with Protective Equipment's (PPE's) while working at site.

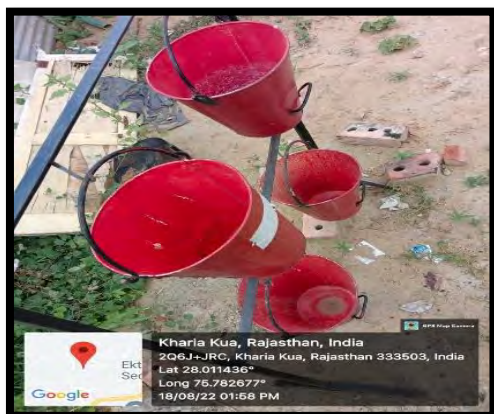
No access and egress point to move.	Action Taken: While working at site blockage of access area removed
Near Shani Temple; Todi Mohalla; Khetri	
	
Workers working at site without Personal Protective Equipment's (PPE's) And obstructed access and egress point.	Action Taken: All workers equipped with Protective Equipment's (PPE's) while working at site.
Stock Yard; Khetri	
	
Improper material stacking was found at site. DI Pipe, HDPE pipes of different diameter and other construction useful material was dumped randomly at stock yard area.	Action Taken: all material placed in proper manner with proper stacking arrangement and covered with tarpaulin.



No access point to approach cement stock yard.



Action Taken; All stock yard areas provided with safe access and egress point to move without any obstruction.



Incomplete fire point



Action Taken: All fire point complete with Co2 fire extinguisher and ABC fire extinguisher with hanged sufficient sand buckets provided.

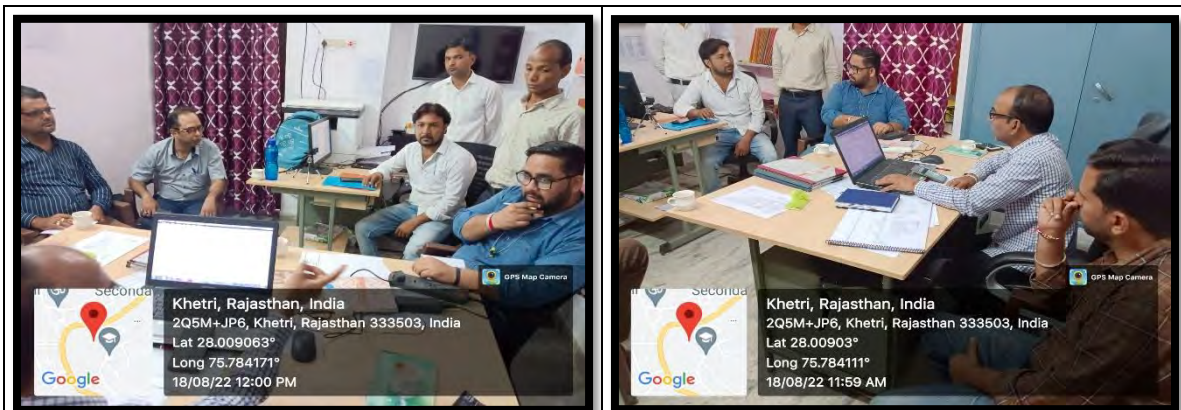


Sand and other Aggregate material was dumped at site without proper covering.



Action Taken: All aggregate and sand storage material kept at site with proper green net coverage and proper tarpaulin protection.

Photographs of Meeting at Khetri



Discussions with SCE, Support Engineer of CMSC-01 at RUIDP, PIU-Khetri Office and discussion with Contractor Project Manager and EHS Officer at contractor office in Khetri town.

Photographs of Safety Training at Khetri town





Abu Road Town (Site Visited on dated 18.08.2022)



Photos of Training Orientation at Labour Camp near Air Strip Abu Road

APPENDIX 2: SAMPLE PHOTOGRAPHS OF CONSULTATIONS

Public Consultation in Banswara at Teliwara-Prathawai Ganj Road on dated 06.04.2022



Photographs of Public Consultation at Khetri on dated 06.07.2022

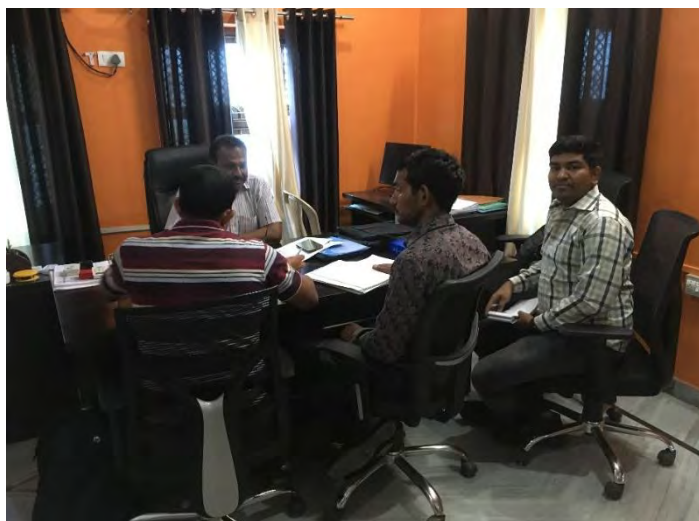


Photos of Public Consultation at Ladnu on dated 07.07.2022



Public Consultation at Sehriybas; Zone 2; Ladnu

Photos of Consultation at Sardarshahar on dated 09.08.2022



Meeting & discussion with PIU-RUIDP (Sardar Shahar) and Contractor

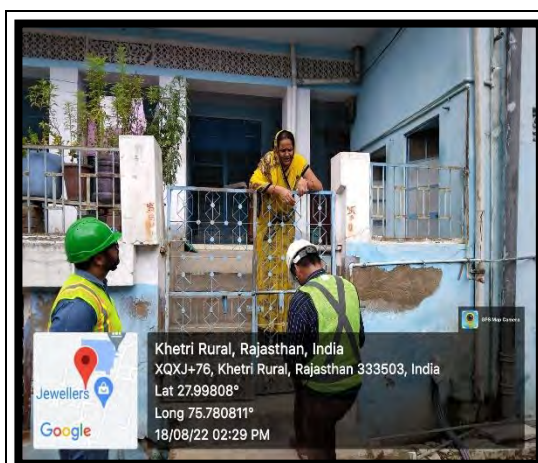
Photos of Public Consultation at Ratangarh Town on dated 10.08.2022



Public consultation at Aaganbadi Kendra, near main Ginani, Ratangarh



Public consultation at BNSL office Ginani, Ratangarh



Photos of Consultation at Abu Road Town on dated 18.08.2022





Environmental Monitoring Report

Project Number: 42267-031
Semestral Report: April 2022 – September 2022
February 2023

India: Rajasthan Secondary Towns Development Sector Project

Part 2 of 4: Appendix 2 (continued) and Appendices 3 - 7

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

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Asian Development Bank

APPENDIX 2A: SAMPLES OF ATTENDANCE SHEETS OF SITE VISITS & CONSULTATIONS

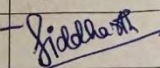
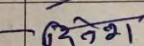
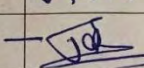
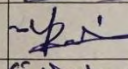
Attendance Sheet of Public Consultation at Banswara on Dated 06.04.2022

PUBLIC CONSULTATION SIGNATURE SHEET

Project name: Rajasthan Secondary Towns Development Sector Project
(RSTDSP) - Banswara Water Supply and Sewerage Subproject,
District - Banswara, Rajasthan

Date 06/04/2022 **Time:** 11:35 AM

Place: - Teliwara - Prathewi Gang Road, Banswara

S.No.	Name of Participant	Occupation	Address	Signature	Phone Number
1.	Siddharth Pancham	shopkeeper	-		8003771768
2.	Dinesh Bhai Sahu	"			9887172058
3.	Hitesh Panchal	"			9414645896
4.	Mohamad Kazim	computer center	Muslim colony -		7300463229
5.				(Not allowed for photo)	
6.					
7.					
8.					
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Attendance Sheet of Site Visit done at Khetri on dated 06.07.2022

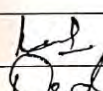
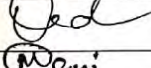
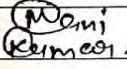
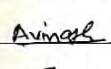
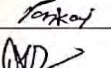
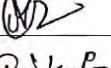
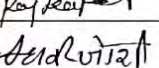
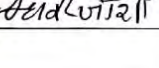
Rajasthan Secondary Town Development Sector Project (RSTDSP- Ph-IV)
Consultations with Stakeholders

Project Town....Khetri.....

Name Of Project:.....Water Supply & Sewerage
Sub-Project.

Date:....06.07.2022.

Place of Consultation:..New STPLand
(3.15MLD)**Attendance Sheet**

S.N.	Name	Occupation	Mobile Number	Signature
1				
2	Chandam Lal	SCE	7004997785	
3	Vandana Srivastava	Environmental Safety Eng.	9410085379	
4	Mani Kumar	Env. & Safety Engineer Support	8360043214	
5	Avinash	Support Eng.	8740832282	
6	PANKAJ KUMAR	Support Eng.	7742620365	
7	Anil Kumar Meena	Project manager	9983845262	
8	Rajkumar	Safety Eng	9166949686	
9	Mahaveen Joshi	DEO	7220805242	
10				
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Attendance Sheet of Site Visit done at Ladnu Town on dated 07.07.2022

Rajasthan Secondary Town Development Sector Project (RSTDSP- Ph-IV)

Project Town...Ladnu.....

Name Of Project: Sewerage Project.

Date: 07/07/2020

Place of Consultation: Ladnu; PIU

Attendance Sheet

S. No.	Name	Occupation/Designation	Mobile Number	Signature
1	Jitendra	JEN PIU Ladnu	9783433002	[Signature]
2	Ram Kumar Singh	ACM cmsec-01	8949672561	[Signature]
3	Kapil Soni	Supp. Eng	9549510813	[Signature]
4	Vandana Sirohi	Env. Safeguard Spec	9410085379	[Signature]
5	Mani Kumar	Safeguard Support (Env & Safety)	836004324	[Signature]
6	Sher moud	SE (CMSEC)	8094736147	[Signature]
7	Jeeran Kumar	EHSD (L & T)	9446224558	[Signature]
8	Anil Choudhary	Safety Engineer	7296965703	[Signature]
9	Shubham Sen	ASD cum GIS	7728850452	[Signature]
10	Ram Kishan	SOT	960574697	[Signature]
11	Santosh	SOT	6376661453	[Signature]
12	Kiran	SOT	9079860484	[Signature]
13				
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Attendance Sheet of Meeting with PIU & Contractors staff at Sardarshahar Town on dated 09.08.2022

Meeting with PIU, Contractor and CMSC-2
(Sardarshahar) Under sewer
and Water Supply Sub-project Sardarshahar Town;

DATE 09 08 2022

No.	Name.	Designation	Signature	Mobile No.
	M. C. Gupta	Executive Engineer	[Signature]	7597921020
	Dinash Kumar	Assistant Engineer	[Signature]	6949425829
	Rakesh K. Sahu	AEM-EHS-LET Const.	[Signature]	9439466674
	Abhishek Tak	Support Engineer	[Signature]	9172834838

Attendance Sheet of Worker Participants in Training Orientation at 3.4 MLD STP site at Sardarshahar Town on dated 09.08.2022

Project Name = Sewerage and Water Supply Sub-project
Under RUIDP-IV

① Place - 3.4 MLD STP Safety Training Orientation DATE 09/08/2022

Time = 4:20 PM 3.4 MLD STP =

S.No.	Name	Designation	Signature	Mobile No
1.	Iswari Kumar	Helper	[Signature]	812584802
2.	Anote Lal Singh	Carpenter	[Signature]	9341842095
3.	Vinod Kumar Singh	Carpenter	[Signature]	9102882462
4.	Avadesh Singh	Fitter	[Signature]	9102919285
5.	Raj Kumar Singh	Helper	[Signature]	9142987081
6.	Satish Kumar	Helper	[Signature]	6204892213
7.	Visham Narayan Singh	Helper	[Signature]	8987496442
8.	Saroj Gupta	Helper	[Signature]	6299137999
9.	Suraj Nath Singh	Helper	[Signature]	6207280803
10.	Sashi Viswakarma	Helper	[Signature]	-
11.				

Attendance sheets of Public consultation at Ratangarh town on dated 10.08.2022

Public consultation for
Ratangarh Drainage Sub-Project under
RUIDP-IV

DATE 10 08 2022

Place = Aagenbadi-Ward No. 9 Time = 12:00 PM

S. No.	Name of Participant Local Resident	Designation/ Occupation	Signature	Mobile No
1.	Mr. Mohamad Abbas Gori	Ward Passal No 9		- 9782228866
2.	Mr. Majid Gori	Electrician		- 9001880981
3.	Mr. Yusuf Behalim	Civil work		- 9929476291
4.	Mr. Asif Gori	Electrician		9672016025
5.	Mr. Mohamad Sajid Sajai			- 9672155429
6.	Mr. Mahendra Sankhla			-
7.				
8.				

Public consultation near BNSL Ginani, Ratangarh on dated 10.08.2022

Public Consultation for
Ratangarh Drainage Sub-Project Under RUIDP-IV
DATE 10/08/2022

Place : BSNL Office
Time : 1:30 pm.

S.No.	Name of Local Resident	Occupation	Signature	Mobile No.
1.	Mr. Manoj Kumar	Contractor		9828536429
2.	Mr. Rajul Kumar	"		9587860051
3.	Mr. Hari Om Swami	"		9233142212
4.	Mr. Ramesh Pahal	"		9588203799
5.	Mr. Gyanulal	"		8873045749

Public consultation near Saraf Well, Ratangarh on dated 10.08.2022

Public Consultation For
Ratangarh Drainage Sub-Project Under RUIDP-IV
DATE 10/08/2022

Place : Saraf Well
Time : 3:00 pm

S.No.	Name of Local Resident	Occupation	Signature	Mobile No.
1.	Sudhakar Prakash	Journalist		6375660190
2.	Babu Khan	Welding Shop		9001216736
3.	Shishupal Singh	LIC Agent		9001524074
4.	Mahaveer Prasad	Shopkeeper		9636284649
5.	Dalid Solanki	Shopkeeper		9414487320
6.				
7.				
8.				

Attendance Sheet of Site Visit of Khetri Town**Rajasthan Secondary Town Development Sector Project (RSTDSP- Ph-IV)****Consultations with Stakeholders**Project Town: KhetriName of Project: Water Supply & Sewerage Sub-ProjectDate: 18/08/2022Place of Consultation: Khetri - RUIOP Office**Attendance Sheet**

S.N.	Name	Occupation	Mobile Number	Signature
1				
2	Vijay Pal	ACM	9799363291	Vijay
3	Chandran Lal	SCE	7004937785	Lal
4	S. Venkata Narasimha	Billing In-charge	9052322611	S. Venkata Narasimha
5	Vandana Srivastava	Environmental Safeguard Sp.	9410053799	Vandana
6	Mani Kumari	Safeguard Support staff (Env. & Safety)	8360043214	Mani Kumari
7	Yogesh Atreya	Safeguard Support staff (Safety)	9460126777	Yogesh
8	Raj Kapoor	Safety Eng.	9166949686	Raj Kapoor
9	Animesh	Support Eng.	8740832282	Animesh
10	PANKAJ KUMAR	Support Eng.	7742620365	Pankaj
11	ANIL KUMAR MEENA	Project Manager (RSTSP- LUN (IV))	9983845262	Anil Kumar Meena
12				
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APPENDIX 3: COPIES OF ENVIRONMENTAL CLEARANCES AND PERMITS**A. Details of Consent to Establish (CTEs) reported in Previous SEMRs**

S.No.	Component and Town Name	Validity	Reported in which SEMR
1	7 MLD STP at Kila Road, Pratapgarh	CTE issued, Valid from 30.11.2021 to 31.10.2026	SEMR (October 2021 to March 2022)
2	9.25 MLD WTP at PHED AEn Campus, Banswara	CTE Issued, Valid from 17.11.2021 to 31.10.2026	SEMR (October 2021 to March 2022)
3.	2.4 MLD STP at Sujangarh Road, Ladhu	CTE Applied, Approval awaited from RSPCB.	Will be Reported in Next SEMR (October 2022 to March 2023)
4.	1.60 MLD STP at Near Ashok Circle in land of GVM, Sardarshahar	CTE will be applied soon	Will be Reported in Next SEMR (October 2022 to March 2023)
5.	5 MLD WSP at South Campus, Sardarshahr (Upgradation works of STP)	CTE Applied, Approval awaited from RSPCB.	Will be Reported in Next SEMR (October 2022 to March 2023)
6.	2 MLD WSP at North Campus, Sardarshahr (Upgradation works of STP)	CTE Applied, Approval awaited from RSPCB.	Will be Reported in Next SEMR (October 2022 to March 2023)
7.	6.34 MLD WSP at Udaipur Road, Banswara (Upgradation works of STP)	CTE Applied, Approval awaited from RSPCB.	Will be Reported in Next SEMR (October 2022 to March 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)

C. Details of Environmental clearances/permission issued in this reporting period

Consent to Establish (CTE) for 3.8 MLD STP at Ratangarh

	Head Office Liquid Waste Rajasthan State Pollution Control Board 4, Institutional Area, Jhalana Doongari, Jaipur-302 Phone: 0141-2716852 Fax: 0141-276852								
	Registered File No : F(Tech)/Churu(Ratangarh)/1764(1)/2020-2021/408-410 Order No: 2021-2022/Liquid Waste/1228 Unit Id : 106923 Dispatch Date: 03/06/2021								
M/s Sewage Treatment Plant- 3.8 MLD Nagar Palika, Near Ratangarh bus stand , Ratangarh									
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 12/02/2021 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 Sewage Treatment Plant 3.8 MLD plant situated / proposed at Khasra No 4, 28, NB-11, Derajsar Ratangarh Tehsil:Ratangarh District:Churu, 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 12/02/2021 to 31/01/2026 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:									
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Particular</th> <th>Type</th> <th>Quantity / Capacity</th> </tr> </thead> <tbody> <tr> <td>Sewage Treatment Plant</td> <td>Service</td> <td>3,800.00 MLD</td> </tr> </tbody> </table>				Particular	Type	Quantity / Capacity	Sewage Treatment Plant	Service	3,800.00 MLD
Particular	Type	Quantity / Capacity							
Sewage Treatment Plant	Service	3,800.00 MLD							
3. That in case of any increase in capacity or addition / modification / alteration or change in product mix or process or raw material or fuel the project proponent is required to obtain fresh consent to establish. 4. That the control equipment as proposed by the applicant shall be installed before trial operation is started for which prior consent to operate under the provision of the Water Act shall be obtained. This consent to establish shall not be treated as consent to operate. 5. That the quantity of effluent generation and disposal along with mode of disposal for the treated effluent shall be as under:									
Page 1 of 4									
Signature Not Verified Digitally signed by Nira Mathur Date: 2021.06.03 15:15:25 IST Reason: Self Attested Location:									
									



Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Churu(Ratangarh)/1764(1)/2020-2021/408-410

Order No : 2021-2022/Liquid Waste/1228

Dispatch Date: 03/06/2021

Unit Id : 106823

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	3800.000	NIL	3,800.000 On Land for Plantation/Horticulture after adequate treatment.

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

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

- 7 In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.
- 8 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.
- 9 That no treated/untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/ other gainful purposes.

Page 2 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.06.03 15:15:25 IST
 Reason: Self Attested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Churu(Ratangarh)/1764(1)/2020-2021/408-410

Order No : 2021-2022/Liquid Waste/1228

Dispatch Date: 03/06/2021

Unit Id : 106823

- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 12 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.
- 13 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.
- 14 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.
- 15 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 16 That, notwithstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained **section 27(2) of the Water Act** to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the **Water Act**.
- 17 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 18 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Establish** shall also be subject, beside 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 the relevant provisions of the said Act(s).

Page 3 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.06.03 15:15:25 IST
Reason: SelfAttested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Churu(Batangarh)/1764(1)/2020-2021/400-410
Order No : 2021-2022/Liquid Waste/1228 Dispatch Date: 03/06/2021
Unit Id : 106923

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge[Liquid Waste]

(A): Copy To:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Sikar to ensure compliance of conditions of CTE
- 2 Master File.

Group Incharge[Liquid Waste]

Page 4 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.06.06 15:15:25 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 6.10 MLD STP at Ratangarh

Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852



Registered

File No : F(Tech)/Churu(Ratangarh)/1764(1)/2020-2021/1055-1057

Order No : 2021-2022/Liquid Waste/1240

Dispatch Date: 05/07/2021

Unit Id : 106823

M/s Sewage Treatment Plant- 3.8 MLD

Nagar Palika, Near Ratangarh bus stand, Ratangarh.

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 13/02/2021 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 **Sewage Treatment Plant - 6.1 MLD plant** situated / proposed at **Khasra No 639, Gaushala Land, Ratangarh Ratangarh Tehsil:Ratangarh District:Churu**, 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 **13/02/2021 to 31/01/2026 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
Sewage Treatment Plant	Service	6,100.00 KLD

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

Page 1 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.07.08 12:38:36 IST
 Reason: Self Attested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Churn(Ratangarh)/1764(1)/2020-2021/1055-1057

Order No : 2021-2022/Liquid Waste/1240

Dispatch Date: 05/07/2021

Unit Id : 106823

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	6100.000	NIL	6100.000 On Land for Plantation/Horticulture after adequate treatment.

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

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

- 7 In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.
- 8 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
- 9 That no treated/untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/ other gainful purposes.

Page 2 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.07.05 12:38:36 IST
 Reason: Self Attested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Churu(Ratangarh)/1764(1)/2020-2021/1055-1057

Order No : 2021-2022/Liquid Waste/1240

Dispatch Date: 05/07/2021

Unit Id : 106823

- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 12 That the unit shall undertake plantation of tree species in two rows of suitable species all along the periphery of the site of the STP to control foul smell.
- 13 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.
- 14 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.
- 15 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 16 That, not withstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained **section 27(2) of the Water Act** to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the **Water Act**.
- 17 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 18 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

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

Page 3 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.07.07 12:38:36 IST
Reason: Self Attested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Churn(Ratangarh)/1764(1)/2020-2021/1055-1057
Order No : 2021-2022/Liquid Waste/1240 Dispatch Date: 05/07/2021
Unit Id : 106B23

This bears the approval of the competent authority.

Yours Sincerely,

Group Incharge[Liquid Waste]

(A) Copy To:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Sikar to ensure compliance of conditions of CTE
- 2 Master File.

Group Incharge[Liquid Waste]

Page 4 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.07.06 12:38:36 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 4.3 MLD STP at Fatehpur

Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852



Registered

File No : F(Tech)/Sikar(Fatehpur)/18(1)/2020-2021/399-401

Order No : 2021-2022/Liquid Waste/1230

Dispatch Date: 03/06/2021

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 Establish** under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974.

Ref: Your application(s) for Consent to Establish dated 16/02/2021 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 in date and rules & the orders issued thereunder **is hereby granted** for your **4.3 MLD STP plant** situated / proposed at **NEAR EXISTING STP, NARI-BARI ROAD SIKAR, FATEHPUR Tehsil:Fatehpur District:Sikar**, 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 **16/02/2021 to 31/01/2026 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
Sewage Treatment Plant	Service	4,300.00 KLD

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

Page 1 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.06.03 15:14:16 IST
 Reason: Self Attested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Sikar(Fatehpur)/18(1)/2020-2021/399-401

Order No : 2021-2022/Liquid Waste/1230

Dispatch Date: 03/06/2021

Unit Id : 106650

- 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	4300.000	NIL	4,300.000 On Land For Plantation/Horticulture after adequate treatment

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

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

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

- 8 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.

Page 2 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.06.08 15:14:16 IST
 Reason: SelfAttested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Sikar(Fatehpur)/18(1)/2020-2021/399-401

Order No: 2021-2022/Liquid Waste/1230

Dispatch Date: 03/06/2021

Unit Id : 106650

- 9 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.
- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 12 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.
- 13 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.
- 14 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.
- 15 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 16 That, notwithstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained **section 27(2) of the Water Act** to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the **Water Act**.
- 17 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 18 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Establish** shall also be subject, beside 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

Page 3 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.06.06 15:14:16 IST
Reason: SelfAttested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Sikar(Fatehpur)/18(1)/2020-2021/399-401

Order No : 2021-2022/Liquid Waste/1230

Dispatch Date: 03/06/2021

Unit Id : 106650

the the relevant provisions of the said Act(s).

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge[Liquid Waste

(A) Copy To:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Sikar to ensure compliance of conditions of CTE
- 2 Master File.

Group Incharge[Liquid Waste

Page 4 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.06.06 15:14:16 IST
Reason: SelfAttested
Location:



Consent to Establish (CTE) for 5.0 MLD STP at Sirohi

Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852

**Registered**

File No : F(Tech)/Sirohi(Sirohi)/G2(1)/2020-2021/482-484

Order No : 2021-2022/Liquid Waste/1235

Dispatch Date: 07/06/2021

Unit Id : 109656

M/s Municipal Council

Municipal Council, Near Bus Stand , Sirohi

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 11/02/2021 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 **Sewage Treatment Plant 5MLD plant** situated / proposed at **Sewage Treatment Plant, Near Nehru Nagar Sirohi Tehsil:Sirohi District:Sirohi**, 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 **11/02/2021 to 31/01/2026 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
Sewage Treatment Plant	Service	5.00 MLD

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

Page 1 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.06.07 15:18:02 IST
 Reason: Self Attested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Sirohi(Sirohi)/62(1)/2020-2021/482-484

Order No : 2021-2022/Liquid Waste/1235

Dispatch Date: 07/06/2021

Unit Id : 109656

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	5.000	NIL	5.000 On Land For Plantation/Horticulture after adequate treatment

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

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

- 7 In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/L.
- 8 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.
- 9 That no treated/untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/ other gainful purposes.

Page 2 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.06.07 15:16:02 IST
 Reason: Self Attested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Sirohi(Sirohi)/62(1)/2020-2021/482-484

Order No : 2021-2022/Liquid Waste/1235

Dispatch Date: 07/06/2021

Unit Id : 109656

- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 12 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.
- 13 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.
- 14 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.
- 15 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 16 That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 300 KVA.
- 17 That, not withstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained section 27(2) of the Water Act to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the Water Act.
- 18 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.
- 19 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, beside 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 the relevant provisions of the said Act(s).

Page 3 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.06.07 15:18:02 IST
Reason: SelfAttested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Sirohi(Sirohi)/62(1)/2020-2021/482-484

Order No : 2021-2022/Liquid Waste/1235

Dispatch Date: 07/06/2021

Unit Id : 109656

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge Liquid Waste

(A) Copy To:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Pali to ensure compliance of conditions of CTE.
- 2 Master File

Group Incharge Liquid Waste

Page 4 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.06.07 15:18:02 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 9.0 MLD WTP at Sirohi

Regional Office Sirohi
Rajasthan State Pollution Control Board
Sirohi

Phone: 02932-231616 Fax: 02932-231616

**Registered**

File No : F(Tech)/Sirohi(Sirohi)/64(1)/2021-2022/160-161

Order No : 2021-2022/Sirohi/7595

Dispatch Date: 28/09/2021

Unit Id : 110752

M/s PHED Water Supply

Executive Engineer Office, Public Health Department,
Near District Court, , Sirohi

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 31/03/2021 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 **Water Treatment Plant** situated / proposed at **Main Pump House Angore, PHED Angore Sirohi Tehsil-Sirohi District-Sirohi**, 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 **31/03/2021** to **28/02/2026** 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.

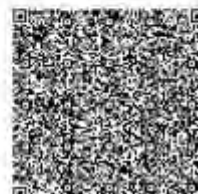
Particular	Type	Quantity / Capacity
WATER TREATMENT PLANT	Service	9.00 MILLION LITRES/ DAY

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

Page 1 of 4

Signature Not Verified

Digitally signed by **Rahul Sharma**
 Date: 2021.09.28 15:06:48 IST
 Reason: Self Attested
 Location:





Regional Office Sirohi
Rajasthan State Pollution Control Board
Sirohi

Phone: 02932-231616 Fax: 02932-231616

Registered

File No : F(Tech)/Sirohi(Sirohi)/64(1)/2021-2022/160-161

Order No : 2021-2022/Sirohi/7595

Dispatch Date: 28/09/2021

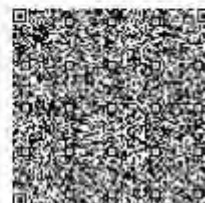
Unit Id : 110752

- 5 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
- 6 That this Consent to Establish is valid for Water Treatment Plant (with recycling system) for a investment of Rs. 336.3/- lacs under 'Orange' category. Any change in production & its capacity unit has to seek prior consent to establish/operate from the State Board.
- 7 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.
- 8 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.
- 9 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.
- 10 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.
- 11 That the domestic effluent shall be disposed off in soak pits through properly designed septic tanks.
- 12 That no source of air emission shall be permitted under this consent, unit shall apply for separate consent to establish under the provisions of Air Act-1981 if there is proposal for any source of air emission.
- 13 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.
- 14 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.

Page 2 of 4

Signature Not Verified

Digitally signed by Rahul Sharma
Date: 2021.09.28 15:06:48 IST
Reason: SelfAttested
Location:





Regional Office Sirohi
Rajasthan State Pollution Control Board
Sirohi

Phone: 02932-231616 Fax: 02932-231616

Registered

File No : F(Tech)/Sirohi(Sirohi)/64(1)/2021-2022/160-161

Order No : 2021-2022/Sirohi/7595

Dispatch Date: 28/09/2021

Unit Id : 110752

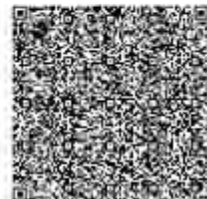
- 15 That the industry shall ensure that noise from the unit does not exceed the prescribed noise standards for industrial area i.e. 75 dB(A) Leq during day time and 70 dB(A) Leq during night time to meet the prescribed ambient noise standards. Day time is reckoned in between 6 A.M. and 9 P.M. and nighttime is reckoned between 9 P.M. to 6 A.M.
- 16 That the unit shall maintain plantation at least in the 33% of total area within the unit premises.
- 17 That the consent is valid subject to fulfillment of all the other statutory requirements in other Laws/Acts/Rules as applicable.
- 18 That this consent is not an evidence for ascertaining the title of land.
- 19 That this consent is only for environment purpose not be liable for any other purpose
- 20 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.
- 21 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
- 22 That, notwithstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained section 27(2) of the Water Act to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the Water Act.
- 23 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.
- 24 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, beside 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,

Page 3 of 4

Signature Not Verified

Digitally signed by Rahul Sharma
Date: 2021.09.28 15:06:48 IST
Reason: Self Attested
Location:





Regional Office Sirohi
Rajasthan State Pollution Control Board
Sirohi

Phone: 02932-231616 Fax: 02932-231616

Registered

File No : F(Tech)/Sirohi(Sirohi)/64(1)/2021-2022/160-161

Order No : 2021-2022/Sirohi/7595

Dispatch Date: 28/09/2021

Unit Id : 110752

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 the relevant provisions of the said Act(s).

Yours Sincerely

EE

(A) Copy To:-

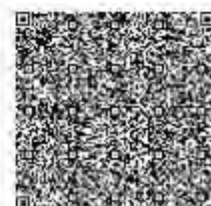
1 Master File

EE

Page 4 of 4

Signature Not Verified

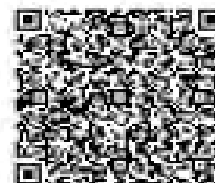
Digitally signed by Rahul Sharma
Date: 2021.09.28 15:06:48 (IST)
Reason: SelfAttested
Location:



Consent to Establish (CTE) for 1.7 MLD STP at Sirohi



Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852



Registered

File No : F(Tech)/Sirohi(Sirohi)/62(1)/2020-2021/6114-6116

Order No : 2020-2021/Liquid Waste/1216

Dispatch Date: 26/03/2021

Unit Id : 109656

M/s Municipal Council

Municipal Council, Near Bus Stand, Sirohi

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 11/02/2021 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 1.7 MLD Sewage Treatment Plant situated / proposed at Sewage Treatment Plant, Near Revdar Road, Sirohi Sirohi Tehsil:Sirohi District:Sirohi, 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 11/02/2021 to 31/01/2026 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
Sewage Treatment Plant	Service	1,700.00 KLD

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

Page 1 of 4

Validity unknown

Digitally signed by **Niraj Mathur**
Date: 2021.03.26 11:51:25 IST
Reason: Self signed
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Sirohi(Sirohi)/62(1)/2020-2021/6114-6116

Order No : 2020-2021/Liquid Waste/1216

Dispatch Date: 26/03/2021

Unit Id : 109656

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	1700.000	NIL	1700.000 On Land For Plantation/Horticulture after adequate treatment

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

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

7. In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.
8. 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.
9. That no treated/untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/ other gainful purposes.

Page 2 of 4

Validity unknown

Digitally signed by Niraj Mathur
Date: 2021.03.26 18:51:25 IST
Reason: Self signed
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Sirohi(Sirohi)/62(1)/2020-2021/6114-6116

Order No : 2020-2021/Liquid Waste/1216

Dispatch Date: 26/03/2021

Unit Id : 109656

- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 12 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.
- 13 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.
- 14 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.
- 15 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 16 That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 160 KVA.
- 17 That, notwithstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained section 27(2) of the Water Act to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the Water Act.
- 18 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.
- 19 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, beside 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 the relevant provisions of the said Act(s).

Page 3 of 4

Validity unknown

Digitally signed by Viraj Mathur
Date: 2021.03.26 18:51:25 IST
Reason: Self created
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Sirohi(Sirohi)/62(1)/2020-2021/6114-6116

Order No : 2020-2021/Liquid Waste/1216

Dispatch Date: 26/03/2021

Unit Id : 109656

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge[Liquid Waste]

(A): Copy To:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Pali to ensure compliance of conditions of CTE.
- 2 Master File.

Group Incharge[Liquid Waste]

Page 4 of 4

Validity unknown

Digitally signed by Niraj Mathur
Date: 2021.03.26 14:51:25 IST
Reason: Self-generated
Location:



Consent to Establish (CTE) for 9.6 MLD STP at Banswara

Regional Office Banswara
Rajasthan State Pollution Control Board
 Choudhary Campus, Near Durga Petrol Pump,
 Dahod Road, Thikariya, Banswara
 Phone: 9414164125 Fax: 9999999999



Registered

File No : F(Tech)/Banswara(Banswara)/5145(1)/2021-2022/37-38

Order No : 2021-2022/Banswara/6735

Dispatch Date: 14/10/2021

Unit Id : 113267

M/s Sewerage Treatment

Municipal Council Officer, Banswara

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 08/07/2021 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 **9.6 MLD STP plant** situated / proposed at **96 MLD STP within existing STP campus, on Udaipur Road, Janawari Banswara Tehsil: Banswara District: Banswara**, 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 **08/07/2021 to 30/06/2026 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
Sewage Treatment Plant	Service	9.60 MLD

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

Page 1 of 4

Signature Not Verified

Digitally signed by Ashish Kumar
 Baurasi
 Date: 2021.10.14 16:46:13 IST
 Reason: Self Attested
 Location:





Regional Office Banswara
Rajasthan State Pollution Control Board
 Choudhary Campus, Near Durga Petrol Pump,
 Dahod Road, Tilwariya, Banswara
 Phone: 9414164925 Fax: 9999999999

Registered

File No : F(Tech)/Banswara(Banswara)/5145(1)/2021-2022/37-38

Order No : 2021-2022/Banswara/6735

Dispatch Date: 14/10/2021

Unit Id : 113267

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	9600.000	NIL	9,600.000 On Land For Plantation/Horticulture after adequate treatment

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

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

- 7 In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/L.
- 8 That this Consent to Establish is being issued for establishment of Sewage Treatment Plant (STP) of capacity 9.6 MLD at within existing STP campus, on Udaipur Road, Janawari, Banswara, Tehsil: Banswara, District: Banswara.
- 9 That no treated/untreated effluent shall be discharged into any other water body and entire treated sewage shall be utilized in plantation/horticulture/other gainful purposes.

Page 2 of 4

Signature Not Verified

Digitally signed by Ashish Kumar
 Baurasi
 Date: 2021.10.14 18:48:13 IST
 Reason: Self Attested
 Location:





Regional Office Banswara
Rajasthan State Pollution Control Board
Choudhary Campus, Near Durga Petrol Pump,
Dahod Road, Thikariya, Banswara
Phone: 9414164925 Fax: 9999999999

Registered

File No : F(Tech)/Banswara(Banswara)/5145(1)/2021-2022/37-38

Order No: 2021-2022/Banswara/6735

Dispatch Date: 14/10/2021

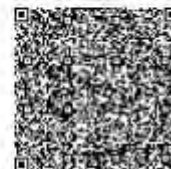
Unit Id : 113267

- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That sewage network alongwith house connections will be completed simultaneously with the commissioning of the STP
- 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 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.
- 15 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.
- 16 That the sludge will be properly digested, de-watered and the treated sludge will be used as manure or will be disposed in a scientific manner.
- 17 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 18 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 19 That the unit shall undertake plantation in two rows of suitable species all along the periphery of the site of the STP to control foul smell.
- 20 That this Consent to Establish shall not be valid for establishment of any air polluting machinery e.g., DG set etc. Proponent shall obtain separate Consent to Establish for establishment of air polluting machinery e.g., DG set etc. under Air Act, 1981.
- 21 That the grant of consent shall not absolve the project proponent from making compliance of other statutory obligations prescribed under any other law or directions of courts or any other legal instrument for the time being in force.
- 22 That, not withstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained section 27(2) of the Water Act to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the Water Act.

Page 3 of 4

Signature Not Verified

Digitally signed by Ashish Kumar
Baurasi
Date: 2021.10.14 18:48:13 IST
Reason: Self Attested
Location:





Regional Office Banswara
Rajasthan State Pollution Control Board
Choudhary Campus, Near Durga Petrol Pump,
Dahod Road, Thilaciva, Banswara
Phone: 9414164925 Fax: 9999999999

Registered

File No : F(Tech)/Banswara(Banswara)/5145(1)/2021-2022/37-38

Order No : 2021-2022/Banswara/6735

Dispatch Date: 14/10/2021

Unit Id : I13267

23 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.

24 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, beside 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

EE

(A) Copy To:-

i. Master File

EE

Page 4 of 4

Signature Not Verified

Digitally signed by Ashish Kumar
Baurasi
Date: 2021.10.14 18:48:13 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 7.0 MLD STP at Ptarapgarh

Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852



Registered

File No : F(Tech)/Pratapgarh(Pratapgarh)/30(1)/2021-2022/479-481

Order No : 2021-2022/Liquid Waste/1234

Dispatch Date: 07/06/2021

Unit Id : 111078

M/s Municipal Council Pratapgarh

Municipal Council, , Pratapgarh

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 16/03/2021 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 **7 MLD Sewage Treatment Plant** situated / proposed at **7 MLD STP, Jain Gosala, Kila Road Pratapgarh Rajasthan Tehsil:Pratapgarh District:Pratapgarh**, 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 **16/03/2021 to 28/02/2026 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
Sewage Treatment Plant	Service	7.00 MLD

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

Page 1 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.06.07 15:17:40 IST
 Reason: SelfAttested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Pratapgarh(Pratapgarh)/30(1)/2021-2022/479-481

Order No : 2021-2022/Liquid Waste/1234

Dispatch Date: 07/06/2021

Unit Id : 111078

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	7000.000	NIL	7,000.000 On Land for Plantation/Horticulture after adequate treatment.

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

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

- 7 In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.
- 8 That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 1400 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount.
- 9 That no treated/untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/ other gainful purposes.

Page 2 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.06.07 15:17:40 IST
 Reason: Self Attested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Pratapgarh(Pratapgarh)/30(1)/2021-2022/479-481

Order No : 2021-2022/Liquid Waste/1234

Dispatch Date: 07/06/2021

Unit Id : 111078

- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 12 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.
- 13 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.
- 14 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.
- 15 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 16 That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 125 KVA.
- 17 That, not withstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained **section 27(2) of the Water Act** to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the **Water Act**.
- 18 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.
- 19 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, beside 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 the relevant provisions of the said Act(s).

Page 3 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.06.07 15:17:40 IST
Reason: Self Attested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Pratapgarh(Pratapgarh)/30(1)/2021-2022/479-481

Order No : 2021-2022/Liquid Waste/1234

Dispatch Date: 07/06/2021

Unit Id : 111078

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge[Liquid Waste

(A): Copy To:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Chittorgarh to ensure compliance of conditions of CTE
- 2 Master File.

Group Incharge[Liquid Waste

Page 4 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.06.07 15:17:40 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 3.0 MLD STP at Didwana

Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852



Registered

File No : F(Tech)/Nagaur(Degana)/39(1)/2020-2021/6102-6104

Order No : 2020-2021/Liquid Waste/1218

Dispatch Date: 26/03/2021

Unit Id : 109985

M/s Municipal board didwana

Near bus stand , Didwana

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 10/02/2021 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 **Sewage Treatment plant(STP) DIDWANA plant** situated / proposed at **NEAR MELA MAIDAN DIDWANA Didwana Tehsil:Didwana District:Nagaur**, 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 **10/02/2021 to 31/01/2026 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
Sewage Treatment Plant	Service	3.00 MLD

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

Page 1 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.03.26 14:49:14 IST
 Reason: Self Attested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Nagaur(Degana)/39(1)/2020-2021/6102-6104

Order No : 2020-2021/Liquid Waste/1218

Dispatch Date: 26/03/2021

Unit Id : 109985

- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 12 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.
- 13 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.
- 14 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.
- 15 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 16 That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 180 KVA.
- 17 That, not withstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained **section 27(2) of the Water Act** to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the **Water Act**.
- 18 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.
- 19 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, beside the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The project proponent will comply with the provisions of the **Water Act** and to such other conditions as may, from time to time, be specified by the State Board under the provisions of the aforesaid Act(s). Please note that, non compliance of any of the above stated conditions would tantamount to revocation of **Consent to Establish** and project proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

Page 3 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.26 14:49:14 IST
Reason: Self Attested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Nagaur(Degana)/39(1)/2020-2021/6102-6104

Order No : 2020-2021/Liquid Waste/1218

Dispatch Date: 26/03/2021

Unit Id : 109985

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge Liquid Waste

(A): Copy To:-

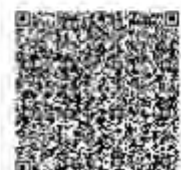
1. Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Kishanganh to ensure compliance of conditions of CTE
2. Master File

Group Incharge Liquid Waste

Page 4 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.26 14:49:14 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 7.6 MLD STP at Kuchaman

Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852



Registered

File No : F(Tech)/Nagaur(Nagaur)/6831(1)/2020-2021/6096-6098

Order No : 2020-2021/Liquid Waste/1215

Dispatch Date: 26/03/2021

Unit Id : 109843

M/s Municipal board, Kuchaman City

Municipal Board, Nehru Udyan, Station Road,

Kuchaman, Nagaur

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 29/01/2021 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 **Sewage Treatment Plant 7.6 MLD plant** situated / proposed at **Sewage Treatment Plant, near Stadium, Station Road, Kuchaman Kuchaman Nagaur Tehsil:Nagaur District:Nagaur**, 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 **29/01/2021** to **31/12/2025** 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
Sewage Treatment Plant	Service	7,600.00 KLD

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

Page 1 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.03.26 14:48:28 IST
 Reason: SelfAttested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852⁰⁰⁴ Fax: 0141-276852

Registered

File No : F(Tech)/Nagaur(Nagaur)/6831(1)/2020-2021/6096-6098

Order No : 2020-2021/Liquid Waste/1215

Dispatch Date: 26/03/2021

Unit Id : 109843

- 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	7600.000	NIL	7,600.000 On Land For Plantation/Horticulture after adequate treatment

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

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

- 7 In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.
- 8 That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs. 2697 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount.

Page 2 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.03.26 14:48:28 IST
 Reason: SelfAttested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Nagaur(Nagaur)/6831(1)/2020-2021/6096-6098

Order No: 2020-2021/Liquid Waste/1215

Dispatch Date: 26/03/2021

Unit Id : 109B43

- 9 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.
- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 12 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.
- 13 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.
- 14 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.
- 15 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 16 That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 365 KVA.
- 17 That, not withstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained **section 27(2) of the Water Act** to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the **Water Act**.
- 18 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.
- 19 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, beside 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,

Page 3 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.26 14:46:28 IST
Reason: SelfAttested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Nagaur(Nagaur)/6831(1)/2020-2021/6096-6098

Order No : 2020-2021/Liquid Waste/1215

Dispatch Date: 26/03/2021

Unit Id : 109843

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 the relevant provisions of the said Act(s).

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge[Liquid Waste

(A) Copy To:-

1. Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Kishangarh to ensure compliance of conditions of CTE
2. Master File

Group Incharge[Liquid Waste

Page 4 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.26 14:48:28 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 5.50 MLD STP at Ladnu

Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852

**Registered**

File No : F(Tech)/Nagaur(Ladnu)/100(1)/2020-2021/5716-5718

Order No : 2020-2021/Liquid Waste/1205

Dispatch Date: 09/03/2021

Unit Id : 109723

M/s Municipal Council, Ladnu

Municipal Council, Station Road, Ladnu, , Ladnu

Tehsil:Ladnun

District:Nagaur

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 27/01/2021 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 **Sewage Treatment Plant 5.5 MLD plant** situated / proposed at **Sewage Treatment Plant, Village Asota Asota Ladnu Tehsil:Ladnu District:Nagaur**, 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 **27/01/2021 to 31/12/2025 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
Sewage Treatment Plant	Service	5,500.00 KLD

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

Page 1 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.03.09 16:08:07 IST
 Reason: Self Attested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Nagaur(Ladnu)/100(1)/2020-2021/5716-5718

Order No: 2020-2021/Liquid Waste/1205

Dispatch Date: 09/03/2021

Unit Id : 109723

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	5500.000	NIL	5,500.000 On Land For Plantation/Horticulture after adequate treatment

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

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

7. In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.
8. 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.

Page 2 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.03.09 16:08:07 IST
 Reason: SelfAttested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852⁰⁰⁴ Fax: 0141-276852

Registered

File No : F(Tech)/Nagaur(Ladnu)/100(1)/2020-2021/5716-5718

Order No : 2020-2021/Liquid Waste/1205

Dispatch Date: 09/03/2021

Unit Id : 109723

- 9 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.
- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 12 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.
- 13 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.
- 14 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.
- 15 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 16 That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 300 KVA.
- 17 That, notwithstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained **section 27(2) of the Water Act** to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the **Water Act**.
- 18 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.
- 19 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, beside 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,

Page 3 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.09 16:08:07 IST
Reason: SelfAttested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Nagaur(Ladnu)/100(1)/2020-2021/5716-5718

Order No : 2020-2021/Liquid Waste/1205

Dispatch Date: 09/03/2021

Unit Id : 109723

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 the relevant provisions of the said Act(s).

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge[Liquid Waste

(A). Copy To:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Kislangarh to ensure compliance of conditions of CTE.
- 2 Master File.

Group Incharge[Liquid Waste

Page 4 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.09 16:08:07 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 7.70 MLD STP at Makrana

Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852



Registered

File No : F(Tech)/Nagaur(Makrana)/120(1)/2020-2021/6108-6110

Order No : 2020-2021/Liquid Waste/1214

Dispatch Date: 26/03/2021

Unit Id : 109853

M/s MUNICIPAL COUNCIL, MAKRANA

MUNICIPAL COUNCIL, MAKRANA NEAR GOVT

HOSPITAL ROAD MAKRANA , MAKRANA

Tehsil:MAKRANA

District:NAGOUR

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

Re: Your application(s) for Consent to Establish dated 08/02/2021 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 **SEWAGE TREATMENT PLANT MAKRANA plant** situated / proposed at **NEAR BALAJI COLONY RAILWAY KE PASS WARD NO 1 MAKRANA MAKRANA Tehsil: Makrana District: Nagaur**, 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 **08/02/2021 to 31/01/2026 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
Sewage Treatment Plant	Service	7,700.00 KLD

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

Page 1 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.03.26 14:50:32 IST
 Reason: Self Attested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Nagaur(Makrana)/120(1)/2020-2021/6108-6110

Order No : 2020-2021/Liquid Waste/1214

Dispatch Date: 26/03/2021

Unit Id : 109853

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	7700.000	NIL	7,700.000 On Land For Plantation/Horticulture after adequate treatment

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

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

7. In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.
8. 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.

Page 2 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.03.26 14:50:32 IST
 Reason: Self Attested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Nagaur(Makrana)/120(1)/2020-2021/6108-6110

Order No : 2020-2021/Liquid Waste/1214

Dispatch Date: 26/03/2021

Unit Id : 109853

- 9 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.
- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 12 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.
- 13 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.
- 14 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.
- 15 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 16 That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 365 KVA.
- 17 That, not withstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained section 27(2) of the Water Act to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the Water Act.
- 18 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.
- 19 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, beside 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,

Page 3 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.26 14:50:32 IST
Reason: SelfAttested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Nagaur(Makrana)/120(1)/2020-2021/6108-6110

Order No : 2020-2021/Liquid Waste/1214

Dispatch Date: 26/03/2021

Unit Id : 109853

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 the relevant provisions of the said Act(s).

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge[Liquid Waste

(A) Copy To:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Kishangarh for ensure compliance of conditions of CTE,
- 2 Master File

Group Incharge[Liquid Waste

Page 4 of 4

Signature Not Verified

Digitally signed by Nirsaj Mathur
Date: 2021.03.26 14:50:32 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 3.15 MLD STP at Khetri

Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852



Registered

File No : F(Tech)/Jhunjhunu(Khetri)/88(1)/2020-2021/5645-5647

Order No : 2020-2021/Liquid Waste/1204

Dispatch Date: 05/03/2021

Unit Id : 110250

M/s Municipal Council, Khetri

Municipal Council, Main Market, Sabji Mandi, Ward

no. 8, Khetri, Jhunjhunu

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 17/02/2021 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 **Sewage Treatment Plant (3.1MLD) plant** situated / proposed at **Sewage Treatment Plant 31MLD at Khasra nos 2352, 2353, 2354, 2356, near Kharia Kua, Khetri, Jhunjhunu Khetri Jhunjhunu Tehsil:Khetri District:Jhunjhunu**, 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 **17/02/2021 to 31/01/2026 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
Sewage Treatment Plant	Service	3,100.00 KLD

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

Page 1 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.03.05 12:09:47 IST
 Reason: SelfAttested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F[Tech]/Jhunjhunu(Khetri)/88(1)/2020-2021/5645-5647

Order No : 2020-2021/Liquid Waste/1204

Dispatch Date: 05/03/2021

Unit Id : 110250

- 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	3100.000	NIL	3,100.000 On Land For Plantation/Horticulture after adequate treatment.

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

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

- 7 In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/L
- 8 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.

Page 2 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.03.08 12:09:47 IST
 Reason: SelfAttested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852⁰⁰⁴ Fax: 0141-276852

Registered

File No : F(Tech)/Jhunjhunu(Khetri)/88(1)/2020-2021/5645-5647

Order No : 2020-2021/Liquid Waste/1204

Dispatch Date: 05/03/2021

Unit Id : 110250

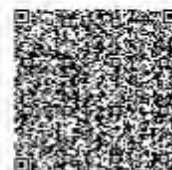
- 9 That no treated/untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/ other gainful purposes
- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 12 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.
- 13 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.
- 14 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.
- 15 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 16 That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 180 KVA.
- 17 That, notwithstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained **section 27(2) of the Water Act** to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the **Water Act**.
- 18 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.
- 19 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, beside 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,

Page 3 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.05 12:09:47 IST
Reason: Self Attested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Jhunjhunu(Khetri)/88(1)/2020-2021/5645-5647

Order No : 2020-2021/Liquid Waste/1204

Dispatch Date: 05/03/2021

Unit Id : 110250

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 the relevant provisions of the said Act(s).

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge[Liquid Waste

(A) Copy To:-

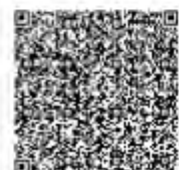
- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Sikar to ensure compliance of conditions of CTE.
- 2 Master File.

Group Incharge[Liquid Waste

Page 4 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.06 12:09:47 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 3.9 MLD STP at Mandawa

Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852



Registered

File No : F(Tech)/Jhunjhunu(Jhunjhunu)/6569(1)/2020-2021/5642-5644

Order No: 2020-2021/Liquid Waste/1203

Dispatch Date: 05/03/2021

Unit Id : 110213

M/s Municipal Board, Mandawa

**Municipal Board, Near Fatehpur Stand, Ward no. 6,
 Mandawa, Jhunjhunu**

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 16/02/2021 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 **Sewage Treatment Plant 3.9 MLD plant** situated / proposed at **Sewage Treatment Plant 4 MLD at Khasra no 1396, Bisau Road Mandawa Jhunjhunu Tehsil:Jhunjhunu District:Jhunjhunu**, 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 **16/02/2021 to 31/01/2026 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
Sewage Treatment Plant	Service	3,900.00 KLD

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

Page 1 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.03.03 12:08:24 IST
 Reason: Self Attested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Jhunjhunu(Jhunjhunu)/6569(1)/2020-2021/5642-5644

Order No : 2020-2021/Liquid Waste/1203

Dispatch Date: 05/03/2021

Unit Id : i10213

- 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	3900.000	NIL	3,900.000 On Land For Plantation/Horticulture after adequate treatment

- 6 That the domestic sewage shall be treated before disposal so as to conform to the standards prescribed by the Board as notified under the Environment (Protection) Act-1986 for disposal into inland surface water. The main parameters for regular monitoring shall be as under:

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

- 7 In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.
- 8 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.

Page 2 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.03.05 12:08:24 IST
 Reason: SelfAttested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852⁰⁰⁴ Fax: 0141-276852

Registered

File No : F(Tech)/Jhunjhunu/Jhunjhunu/6569(1)/2020-2021/5642-5644

Order No : 2020-2021/Liquid Waste/1203

Dispatch Date: 05/03/2021

Unit Id : 110213

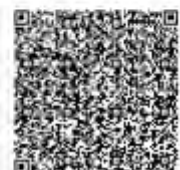
- 9 That no treated/untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/ other gainful purposes.
- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 12 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
- 13 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.
- 14 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
- 15 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 16 That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 180 KVA.
- 17 That, notwithstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained **section 27(2) of the Water Act** to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the **Water Act**.
- 18 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
- 19 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, beside 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,

Page 3 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.05 12:08:24 IST
Reason: SelfAttested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Jhunjhunu(Jhunjhunu)/6569(1)/2020-2021/5642-5644

Order No : 2020-2021/Liquid Waste/1203

Dispatch Date: 05/03/2021

Unit Id : 110213

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 the relevant provisions of the said Act(s).

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge[Liquid Waste

(A) Copy To:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Sikar to ensure compliance of conditions of CTE.
- 2 Master File

Group Incharge[Liquid Waste

Page 4 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.06 12:08:24 IST
Reason: SelfAttested
Location:



Consent to Establish (CTE) for 2.3 MLD STP at Abu Road



Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852



Registered

File No : F(Tech)/Sirohi(Abu Road)/5082(1)/2020-2021/6099-6101

Order No : 2020-2021/Liquid Waste/1217

Dispatch Date: 26/03/2021

Unit Id : 109737

M/s NAGAR PALIKA, ABUROAD

Nagar Palika, Near PWD Dak Bunglow , Abu Road

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 15/02/2021 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 **2.3 Sewage Treatment Plant** situated / proposed at **Manpur near Banas River Abu Road Tehsil: Abu Road District: Sirohi**, 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 **15/02/2021 to 31/01/2026 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
Sewage Treatment Plant	Service	2,300.00 KLD

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

Page 1 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.26 14:48:47 IST
Reason: Self Attested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852⁰⁰⁴ Fax: 0141-276852

Registered

File No : F(Tech)/Sirohi(Abu Road)/5082(1)/2020-2021/6099-6101

Order No : 2020-2021/Liquid Waste/1217

Dispatch Date: 26/03/2021

Unit Id : 109737

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	2300.000	NIL	2,300.000 On Land For Plantation/Horticulture after adequate treatment

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

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

- 7 In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.
- 8 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.
- 9 That no treated/untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/ other gainful purposes.

Page 2 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.03.26 14:48:47 IST
 Reason: Self Attested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Sirohi(Abu Road)/5082(1)/2020-2021/6099-6101

Order No : 2020-2021/Liquid Waste/1217

Dispatch Date: 26/03/2021

Unit Id : 109737

- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 12 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.
- 13 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.
- 14 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.
- 15 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 16 That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 225 KVA.
- 17 That, notwithstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained section 27(2) of the Water Act to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the Water Act.
- 18 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.
- 19 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, beside 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 the relevant provisions of the said Act(s).

Page 3 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.26 14:48:47 IST
Reason: Self Attested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Sirohi(Abu Road)/5082(1)/2020-2021/6099-6101

Order No : 2020-2021/Liquid Waste/1217

Dispatch Date: 26/03/2021

Unit Id : 109737

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge[Liquid Waste]

(A): Copy To:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board,,Pali to ensure compliance of conditions of CTE
- 2 Master File.

Group Incharge[Liquid Waste]

Page 4 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.26 14:48:47 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 6.9 MLD STP at Abu Road



Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852



Registered

File No : F(Tech)/Sirohi(Abu Road)/5082(1)/2020-2021/6105-6107

Order No : 2020-2021/Liquid Waste/1213

Dispatch Date: 26/03/2021

Unit Id : 109737

M/s NAGAR PALIKA, ABUROAD

Nagar Palika, Near PWD Dak Bunglow , AbuRoad

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 15/02/2021 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 **6.9 MLD Sewage Treatment Plant** situated / proposed at **Near Moksh Dham at Santpur Abu Road Tehsil: Abu Road District: Sirohi**, 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 **15/02/2021 to 31/01/2026 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
Sewage Treatment Plant	Service	6,900.00 KLD

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

Page 1 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.26 14:50:07 IST
Reason: Self Attested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852⁰⁰⁴ Fax: 0141-276852

Registered

File No : F(Tech)/Sirohi(Abu Road)/5082(1)/2020-2021/6105-6107

Order No : 2020-2021/Liquid Waste/1213

Dispatch Date: 26/03/2021

Unit Id : 109737

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	6900.000	NIL	6,900.000 On Land For Plantation/Horticulture after adequate treatment

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

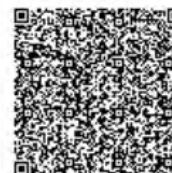
Parameters	Standards
pH Value	Between 5.5 to 9.0
Phosphate as P	Not to exceed 1.0 mg/l
Biochemical Oxygen Demand (3 days at 27C)	Not to exceed 10 mg/l
Chemical Oxygen Demand	Not to exceed 50 mg/l
Fecal Coliform	not to exceed 230 MPN/100 ml
N total	10 mg/l

- 7 In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.
- 8 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.
- 9 That no treated/untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/ other gainful purposes.

Page 2 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.03.26 14:50:07 IST
 Reason: Self Attested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852⁰⁰⁴ Fax: 0141-276852

Registered

File No : F(Tech)/Sirohi(Abu Road)/5082(1)/2020-2021/6105-6107

Order No : 2020-2021/Liquid Waste/1213

Dispatch Date: 26/03/2021

Unit Id : 109737

- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 12 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.
- 13 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.
- 14 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.
- 15 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 16 That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 585 KVA.
- 17 That, notwithstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained **section 27(2) of the Water Act** to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the **Water Act**.
- 18 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.
- 19 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, beside 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 the relevant provisions of the said Act(s).

Page 3 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.26 14:50:07 IST
Reason: SelfAttested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852⁰⁰⁴ Fax: 0141-276852

Registered

File No : F(Tech)/Sirohi(Abu Road)/5082(1)/2020-2021/6105-6107
Order No : 2020-2021/Liquid Waste/1213
Unit Id : 109737
Dispatch Date: 26/03/2021

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge[Liquid Waste]

(A): Copy To:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board,,Pali to ensure compliance of conditions of CTE.
- 2 Master File.

Group Incharge[Liquid Waste]

Page 4 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.26 14:50:07 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 10 MLD WTP at Abu Road



Regional Office Pali
Rajasthan State Pollution Control Board
SA-6, Mandia Road, Industrial Area, Pali
Phone: 02932-231616



Registered

File No : F(Tech)/Sirohi(Abu Road)/5083(1)/2020-2021/2457-2458

Order No : 2020-2021/Pali/8105

Dispatch Date: 23/03/2021

Unit Id : 109727

M/s Public Health Department

PHED Housing Board Aatra Bhaata , AbuRoad

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 15/02/2021 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 **Water Treatment Plant** situated / proposed at **Near Moksh Dham, at Santpur Abu Road Tehsil: Abu Road District: Sirohi**, 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 **15/02/2021** to **31/01/2026** 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
WATER TREATMENT PLANT	Service	10.00 MILLION LITRES / DAY

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



Regional Office Pali
Rajasthan State Pollution Control Board
SA-6, Mandia Road, Industrial Area, Pali

Phone: 02932-231616

Registered

File No : F(Tech)/Sirohi(Abu Road)/5083(1)/2020-2021/2457-2458

Order No : 2020-2021/Pali/8105

Dispatch Date: 23/03/2021

Unit Id : 109727

- 5 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.
- 6 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.
- 7 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.
- 8 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.
- 9 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.
- 10 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.
- 11 That the domestic effluent shall be disposed off in soak pits through properly designed septic tanks.
- 12 That no source of air emission shall be permitted under this consent, unit shall apply for separate consent to establish under the provisions of Air Act-1981 if there is proposal for any source of air emission.
- 13 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.
- 14 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.



Regional Office Pali
Rajasthan State Pollution Control Board
SA-6, Mandia Road, Industrial Area, Pali

Phone: 02932-231616

Registered

File No : F(Tech)/Sirohi(Abu Road)/5083(1)/2020-2021/2457-2458

Order No : 2020-2021/Pali/8105

Dispatch Date: 23/03/2021

Unit Id : 109727

- 15 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 nighttime is reckoned between 9 P.M. to 6 A.M.
- 16 That the unit shall maintain plantation at least in the 33% of total area within the unit premises.
- 17 That the consent is valid subject to fulfillment of all the other statutory requirements in other Laws/Acts/Rules as applicable.
- 18 That this consent is not an evidence for ascertaining the title of land.
- 19 That this consent is only for environment purpose not be liable for any other purpose.
- 20 That this consent is subject to any order or direction from any Court of the competent jurisdiction.
- 21 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.
- 22 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
- 23 That, notwithstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained **section 27(2) of the Water Act** to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the **Water Act**.
- 24 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 25 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Establish** shall also be subject, beside the aforesaid specific conditions, to the general conditions given in the enclosed Annexure. The project proponent will comply



Regional Office Pali
Rajasthan State Pollution Control Board
SA-6, Mandia Road, Industrial Area, Pali

Phone: 02932-231616

Registered

File No : F(Tech)/Sirohi(Abu Road)/5083(1)/2020-2021/2457-2458

Order No : 2020-2021/Pali/8105

Dispatch Date: 23/03/2021

Unit Id : 109727

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 the relevant provisions of the said Act(s).

Yours Sincerely

Regional Officer[Pali]

(A): Copy To:-

1 Master File.

Regional Officer[Pali]

Consent to Establish (CTE) for 9.25 MLD WTP at Banswara



Regional Office Banswara
Rajasthan State Pollution Control Board
Choudhary Campus, Near Durga Petrol Pump,
Dahod Road, Thikriya, Banswara
Phone: 9414164925 Fax: 9999999999



Registered

File No : F(Tech)/Banswara(Banswara)/5151(1)/2021-2022/134-135

Order No : 2021-2022/Banswara/6758

Dispatch Date: 24/12/2021

Unit Id : 114442

M/s Banswara water supply and sewerage work phase -IV (Contact package No. RSTDIP/BNS/

office of Executive Engineer, Thikriya, Banswara

Tehsil: Banswara

District: Banswara

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 17/11/2021 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 **9.25 MLD water Treatment Plant** situated / proposed at **office of Executive Engineer, Thikriya DAHOD ROAD, Banswara Tehsil: Banswara District: Banswara**, 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 **17/11/2021** to **31/10/2026** 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
WATER TREATMENT PLANT	Activity	9.25 MLD

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

Page 1 of 5

Signature Not Verified

Digitally signed by Ashish Kumar
Baurasi
Date: 2021.12.24 18:05:00 IST
Reason: Self Attested
Location:





Regional Office Banswara
Rajasthan State Pollution Control Board
Choudhary Campus, Near Durga Petrol Pump,
Dahod Road, Thikariya, Banswara
Phone: 9414164925 Fax: 9999999999

Registered

File No : F(Tech)/Banswara(Banswara)/5151(1)/2021-2022/134-135

Order No : 2021-2022/Banswara/6758

Dispatch Date: 24/12/2021

Unit Id : 114442

- 5 a. That this Consent to Establish is valid for establishment of Water Treatment Plant of capacity 9.25 MLD for an investment of Rs. 1100.00 Lacs under 'Orange' category. Any change in production & its capacity unit has to seek prior Consent to Establish from the State Board.
- b. 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.
- c. 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.
- d. 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.
- e. 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.
- f. That the domestic effluent shall be disposed off in soak pits through properly designed septic tanks.
- g. That no source of air emission shall be permitted under this consent, unit shall apply for separate consent to establish under the provisions of Air Act-1981 if there is proposal for any source of air emission.
- h. All the conditions and instructions as provided in the General conditions for Consent to Establish under Water (Prevention & Control of Pollution) Act -1974 shall be complied with strictly.

Page 2 of 5

Signature Not Verified

Digitally signed by Ashish Kumar
Baurasi
Date: 2021.12.24 18:05:00 IST
Reason: Self Attested
Location:





Regional Office Banswara
Rajasthan State Pollution Control Board
Choudhary Campus, Near Durga Petrol Pump,
Dahod Road, Thikariva, Banswara
Phone: 9414164925 Fax: 9999999999

Registered

File No : F(Tech)/Banswara(Banswara)/5151(1)/2021-2022/134-135

Order No : 2021-2022/Banswara/6758

Dispatch Date: 24/12/2021

Unit Id : 114442

- 6 a. 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.
- b. 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 nighttime is reckoned between 9 P.M. to 6 A.M.
- c. That the unit shall maintain plantation at least in the 33% of total area within the unit premises.
- d. That the consent is valid subject to fulfilment of all the other statutory requirements in other Laws/Acts/Rules as applicable.
- e. That this consent is not an evidence for ascertaining the title of land. That this consent is only for environment purpose not be liable for any other purpose.
- f. That this consent is subject to any order or direction from any Court of the competent jurisdiction.
- g. That the unit shall not dispose of waste materials outside the premises to avoid any possible nuisance to nearby inhabitants. Such waste material shall be collected at one place and shall be disposed-off in safe manner.
- h. That any incorrect information submitted in the consent application form or declaration shall make the industry liable for legal action under section 42 of the water and section 38 of the Air Act.
- i. That emission/effluents found to be discharged in excess of the standards prescribed shall be punishable under section 37 of the Air Act and under section 43 of the water Act. 14 That noise level.
- l. That the unit shall not carry out any modification/change in process or manufacture/produce any other products/by products which require environment clearance as per the provisions of Environment Impact Assessment Notification dated 14.09.2006 issued by Ministry of Environment & Forests, Government of India.
- j. That unit must submit the Public Liability Insurance for chlorine store room & usage and must ensure safety measure for chlorine room (water spray, alarm etc).
- k. That the mode of disposal of waste water shall be as under:-
- * The backwash water of filters shall be treated through a treatment system before disposal and the sludge generated from the same shall be disposed in eco-friendly manner.

Page 3 of 5

Signature Not Verified

Digitally signed by Ashish Kumar
Baurasi
Date: 2021.12.24 18:05:00 IST
Reason: Self Attested
Location:





Regional Office Banswara
Rajasthan State Pollution Control Board
Choudhary Campus, Near Durga Petrol Pump,
Dahod Road, Thikariya, Banswara
Phone: 9414164925 Fax: 9999999999

Registered

File No : F(Tech)/Banswara(Banswara)/5151(1)/2021-2022/134-135

Order No : 2021-2022/Banswara/6758

Dispatch Date: 24/12/2021

Unit Id : 114442

- 7 That, notwithstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained **section 27(2) of the Water Act** to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the **Water Act**.
- 8 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.
- 9 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, beside 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 the relevant provisions of the said Act(s).

Yours Sincerely

EE

(A): **Copy To:-**

- 1 Master File.

Page 4 of 5

Signature Not Verified

Digitally signed by Ashish Kumar
Baurasi
Date: 2021.12.24 18:05:00 IST
Reason: SelfAttested
Location:





Regional Office Banswara
Rajasthan State Pollution Control Board
Choudhary Campus, Near Durga Petrol Pump,
Dahod Road, Thikariya, Banswara
Phone: 9414164925 Fax: 9999999999

Registered

File No : F(Tech)/Banswara(Banswara)/5151(1)/2021-2022/134-135

Order No : 2021-2022/Banswara/6758

Dispatch Date: 24/12/2021

Unit Id : 114442

EE

Page 5 of 5

Signature Not Verified

Digitally signed by Ashish Kumar
Baurasi
Date: 2021.12.24 18:05:00 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 2.3 MLD STP at Sardarshahar



Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852



Registered

File No : F(Tech)/Churu(Sardarshahar)/5086(1)/2020-2021/5725-5727

Order No : 2020-2021/Liquid Waste/1208

Dispatch Date: 09/03/2021

Unit Id : 106662

M/s STP 2.3 MLD (Near Bikaner Road), STP 3.4 MLD(Near Girgichiya Road)

Janhit Prayas Colony, City Sardarshahar ,

Sardarshahar Tehsil:Sardarshahar

District:Churu

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 13/02/2021 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 **STP 2.3 MLD Near Bikaner Road plant** situated / proposed at **Janhit Prayas Colony, City Sardarshahar Sardarshahar Tehsil:Sardarshahar District:Churu**, 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 **13/02/2021 to 31/01/2026 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
Sewage Treatment Plant	Service	2,300.00 KLD

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

Page 1 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.09 16:09:07 IST
Reason: Self Attested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
 4, Institutional Area, Jhalana Doongari, Jaipur-302
 Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Churu(Sardarshahar)/5086(1)/2020-2021/5725-5727

Order No : 2020-2021/Liquid Waste/1208

Dispatch Date: 09/03/2021

Unit Id : 106662

- 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	2300.000	NIL	2,300.000 On Land For Plantation/Horticulture after adequate treatment

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

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

- 7 In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.
- 8 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

Page 2 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.03.09 16:09:07 IST
 Reason: Self Attested
 Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302

Phone: 0141-2716852⁰⁰⁴ Fax: 0141-276852

Registered

File No : F(Tech)/Churu(Sardarshahar)/5086(1)/2020-2021/5725-5727

Order No : 2020-2021/Liquid Waste/1208

Dispatch Date: 09/03/2021

Unit Id : 106662

- 9 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.
- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 12 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.
- 13 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.
- 14 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.
- 15 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 16 That, notwithstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained **section 27(2) of the Water Act** to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the **Water Act**.
- 17 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 18 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Establish** shall also be subject, beside 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

Page 3 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.09 16:09:07 IST
Reason: Self Attested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Churu(Sardarshahar)/5086(1)/2020-2021/5725-5727

Order No : 2020-2021/Liquid Waste/1208

Dispatch Date: 09/03/2021

Unit Id : 106662

the the relevant provisions of the said Act(s).

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge[Liquid Waste]

(A): Copy To:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board,,Sikar to ensure compliance of conditions of CTE
- 2 Master File.

Group Incharge[Liquid Waste]

Page 4 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.09 16:09:07 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 3.4 MLD STP at Sardarshahar



Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852



Registered

File No : F(Tech)/Churu(Sardarshahar)/5086(1)/2020-2021/5722-5724

Order No : 2020-2021/Liquid Waste/1207

Dispatch Date: 09/03/2021

Unit Id : 106662

M/s STP 2.3 MLD (Near Bikaner Road), STP 3.4 MLD (Near Girgichiya Road)

Janhit Prayas Colony, City Sardarshahar,

Sardarshahar Tehsil:Sardarshahar

District:Churu

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 13/02/2021 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 **STP 3.4MLD Near Girgichiya road plant** situated / proposed at **Janhit Prayas Colony, City Sardarshahar Sardarshahar Tehsil:Sardarshahar District:Churu**, 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 **13/02/2021 to 31/01/2026 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
SEWAGE TREATMENT PLANT	Activity	3,400.00 KLD

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

Page 1 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.09 16:08:48 IST
Reason: Self Attested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Churu(Sardarshahar)/5086(1)/2020-2021/5722-5724

Order No : 2020-2021/Liquid Waste/1207

Dispatch Date: 09/03/2021

Unit Id : 106662

- 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	3400.000	NIL	3,400.000 On Land For Plantation/Horticulture after adequate treatment

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

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

- 7 In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.
- 8 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.

Page 2 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.09 16:08:48 IST
Reason: Self Attested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Churu(Sardarshahar)/5086(1)/2020-2021/5722-5724

Order No : 2020-2021/Liquid Waste/1207

Dispatch Date: 09/03/2021

Unit Id : 106662

- 9 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.
- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 12 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.
- 13 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
- 14 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.
- 15 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 16 That, notwithstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained section 27(2) of the Water Act to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the Water Act.
- 17 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 18 That the grant of this **Consent to Establish** shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

This **Consent to Establish** shall also be subject, beside 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

Page 3 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.09 16:08:48 IST
Reason: Self Attested
Location:





Head Office Liquid Waste
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongari, Jaipur-302
Phone: 0141-2716852 Fax: 0141-276852

Registered

File No : F(Tech)/Churu(Sardarshahar)/5086(1)/2020-2021/5722-5724

Order No : 2020-2021/Liquid Waste/1207

Dispatch Date: 09/03/2021

Unit Id : 106662

the the relevant provisions of the said Act(s).

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge[Liquid Waste]

(A): Copy To:-

- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board,,Sikar to ensure compliance of conditions of CTE
- 2 Master File.

Group Incharge[Liquid Waste]

Page 4 of 4

Signature Not Verified

Digitally signed by Niraj Mathur
Date: 2021.03.09 16:08:48 IST
Reason: Self Attested
Location:



APPENDIX 4: ENVIRONMENTAL SITE INSPECTION REPORTS

Report 01

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP) Sub-project Name – Water supply and Sewer Network with House Connections		PACKAGE NUMBER: RSTDIP/BNS/04			
DATE: 06.04.2022		SECTOR: Water Supply & Sewage Network			
LOCATION (Name of Sites Visited): Banswara Town		M/s. BIPL-SC-HP Joint Venture			
PROJECT ACTIVITY: STP construction site, CRMC Building, Pipe laying sites, CRMC Building		Project Activity Stage- Construction Stage Site visit has done by- Dr. Mahaveer Saini, Environment Professional, CMSC-II			
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	✓				
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- Satisfactory

Report 02

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP) Sub-project Name – Water supply and Sewer Network with House Connections		PACKAGE NUMBER: RSTDIP/KTR/03			
DATE: 06.07.2022		SECTOR: Water Supply & Sewage Network			
LOCATION (Name of Sites Visited): Khetri Town		M/s. Lahoty-LNA (JV)			
PROJECT ACTIVITY: Sewer laying works near SDM Office, Jawahar Colony Jhojo Tank		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	✓			
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- Satisfactory

Report 3

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP)		CONTRACT NUMBER: RSTDIP/LDN/01			
Sub-project Name – Sewer Network and House Connections					
DATE: 07.07.2022		SECTOR: Sewage Network			
LOCATION (Name of Sites Visited): Ladnu Town		Contractor: M/s L&T			
PROJECT ACTIVITY: STP 5.5 MLD and 2.40 MLD , CRMC building construction works, concrete casting (cc) road works and sewer laying works.		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	✓				
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- Satisfactory

Report: 04

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project		CONTRACT NUMBER: RSTDIP/SRD/01			
Sub-project Name – Sardarshahar Sewerage and Water Works					
DATE: 09.08.2022		SECTOR: Water and Sewerage work			
LOCATION (Name of Sites Visited): Sardarshahar Town		Contractor: M/s L&T Ltd.			
PROJECT ACTIVITY: Sewerage (STP) works and Labor camp visit.		Project Activity Stage- Construction Stage			
		Site visit done by- Dr. Mahaveer Saini, Environment Professional, CMSC-II			
Monitoring Items		Compliance			
Compliance marked as Yes/No/Not Implemented(PI)		applicable(NA)/Partially	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			✓		
Construction area is confined; no traffic/pedestrian entry observed			✓		
Surplus soil/debris/waste is disposed without delay			✓		
Construction material (sand/gravel/aggregate) brought to 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	✓			
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	✓			
Deep excavation is conducted with land slip/protection measures	✓			
First aid facilities are available onsite and workers informed	✓			
Drinking water provided at the site	✓			
Toilet facility provided at the site	✓			
Separate toilet facility is provided for women workers	✓			
Workers camps are maintained cleanly	✓			
Adequate toilet & bath facilities provided	✓			
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- Satisfactory

Report 05

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP)		PACKAGE NUMBER: RSTDIP/KTR/03			
Sub-project Name – Water supply and Sewer Network with House Connections					
DATE: 24.08.2022		SECTOR: Water Supply & Sewage Network			
LOCATION (Name of Sites Visited): Khetri Town		M/s. Lahoty-LNA (JV)			
PROJECT ACTIVITY: CWR , MCC, CRMC and CCC Building works and stock yard site visit		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	✓				
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- 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 ration of at least 1:3	Being Complied- Tree cutting permission is being taken, where tree cutting is required, compensatory 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,	If criterion is not met, this is potential for Category A	Complied- There are no ecological

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”

	wildlife/bird sanctuaries, national parks, tiger reserves, elephant reserves, conservation reserves or core zone of biosphere reserves. Appendix 1 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	therefore alternate location should be considered. A Biodiversity Expert shall assess and confirm critical habitat qualification. Appendix 2 provides a Biodiversity Assessment Report prepared for a sample subproject (Abu Road water and sewerage subproject).	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). Appendix 3 provides a sample HIA prepared for a sample subproject (Khetri water and sewerage subproject). 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 of detailed engineering design.	Being Complied— There are no any listed archaeological monuments within the impact area of any sub project. Heritage Impact Assessment is being done in heritage towns.
Existing Facilities to	Conduct environmental audit of existing facilities¹⁸ per ADB SPS	For non-compliances identified in the	Complied- Environmental audit

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.”

¹⁸ ADB SPS Appendix 4 para 12 on Existing Facilities

be rehabilitated or expanded		environmental audit, provide corrective action for each area of concern including cost and schedule to be included in the subproject EMP.	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 4 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 4 provides a sample 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 being prepared in all sub projects where there is possibilities of encounter with 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 far as possible, to reduce new land acquisition.	If criterion is not met, prepare Resettlement Plan according to Resettlement Framework	Complied- water supply and waste water pipes are 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	Water source sustainability or the concurrence from	Complied- Ground water sustainability

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”

	significant reductions in the quantity or quality of the source overall)	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.	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 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	In case of non-availability of suitable sites due to land and technical design constraints in already 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	Complied- STPs are at least 100 meters away from habitations, SBR technology is adopted in all STPs, dense plantation is taken in to consideration in the periphery of all STPs to reduce foul smell

	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).	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	
	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 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	Complied- SPS and well wells are designed at least 50 mts away from habitations and sensitive receptors
	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		Being Complied- all STPs are designed on latest parameters

	standards and confirm this by regular monitoring of effluent from the STP.		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: STATUS OF ENVIRONMENTAL GRIEVANCES RECEIVED DURING REPORTING PERIOD

Towns	Environment related Grievances			Health Related Grievances			Safety related and other Grievances		
	Received	Resolved	Pending	Received	Resolved	Pending	Received	Resolved	Pending
Abu Road	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Sirohi	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Ratangarh	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Laxmangarh	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Sardarshahar	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Fatehpur	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Pratapgarh	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Banswara	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Mandawa	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Kuchaman	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Didwana	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Makrana	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Ladnu	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Khetri	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Total	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

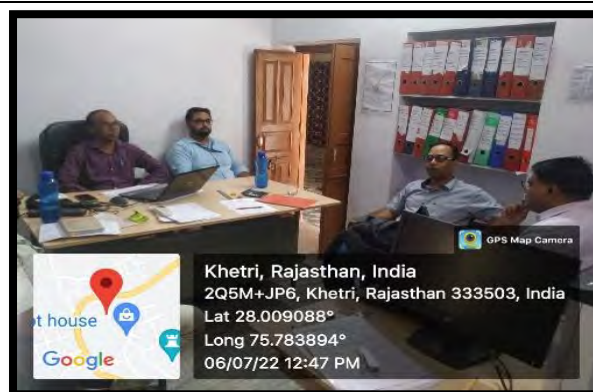
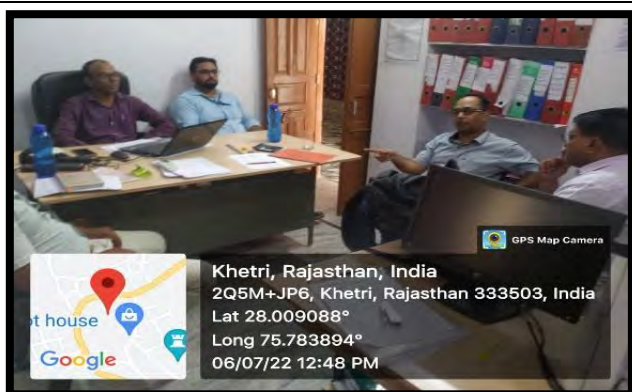
**APPENDIX-7: PHOTOGRAPHS AND ATTENDANCE SHEETS OF SAGEGUARD
ORIENTATIONS AND TRAININGS (During April 2022 to September 2022)
(by Environmental Safeguard Professionals of CMSC I & II)**

Safeguard Orientation at Banswara Town on dated 05.04.2022



Safeguard Orientation at Working Site "STP construction Site (Banswara) on dated 05.04.2022

Safeguard Orientation at Khetri Town on dated 06.07.2022



Orientation of SCE & Support Engineer CMSC-01 & M/s Lahoty Project Manager at PIU Office, RUIDP, Khetri.

Safeguard Orientation at Ladnu Town on dated 07.07.2022



Safety Training of Electrical Safety to Contractor Site Staff at STP (5.5 MLD) Ladnu



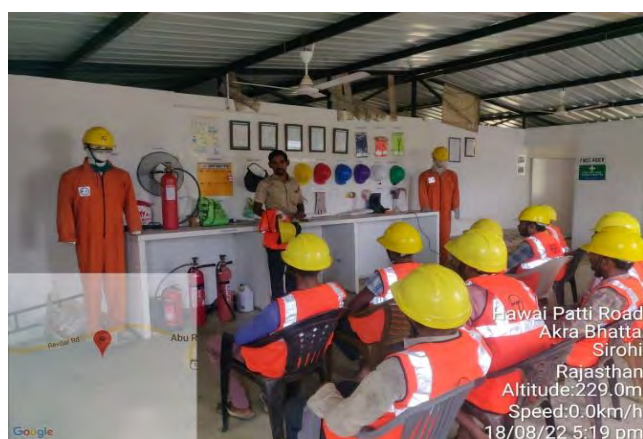
Safety Training of Fire Extinguisher to Contractor Site Staff at STP (5.5 MLD), Ladnu

Safeguard Orientation at Sardarshahar Town on dated 09.08.2022

Safeguard Orientation at Working Site "Sewer Pipe Laying Site-Zone: 2-Bahadur Colony (Sardar Shahar)



Safeguard Orientation of workers at 3.4 MLD STP construction Site (Sardar Shahar)

Safeguard Orientation at Abu Road Town on dated 18.08.2022**Safeguard Orientation at Labour Camp near Air Strip Abu Road**

Safeguard Orientation at Khetri Town on dated 24.08.2022

Attendance Sheet of Safeguard orientation at Khetri on dated 06.07.2022

Rajasthan Secondary Town Development Sector Project (RSTDSP- Ph-IV)
Consultations with Stakeholders

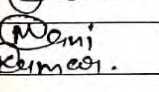
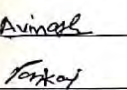
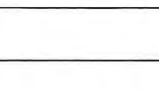
Project Town...Khetri.....

Name Of Project:.....Water Supply & Sewerage Sub-Project.

Date:....06.07.2022.

Place of Consultation:..New STP Land (3.15MLD)

Attendance Sheet

S.N.	Name	Occupation	Mobile Number	Signature
1				
2	Chandank Lal	SCE	7004997785	
3	Vandana Srivastava	Environmental Safety Eng.	9410085379	
4	Mani Kumar	Env. & Safety Safeguard Support	8360043914	
5	Avinash	Support Eng.	8740832282	
6	PANKAS KUMAR	Support Eng.	7742620365	
7	Anil Kumar Meena	Project manager	9983845262	
8	Rajkumar	Safety Eng	9166949688	
9	Mahaveen Joshi	DEO	7220805242	
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Scanned with CamScanner

Attendance Sheet of Safeguard orientation at Ladnu Town on dated 07.07.2022

Rajasthan Secondary Town Development Sector Project (RSTDSP- Ph-IV)

Project Town...Ladnu.....

Name Of Project...Sewerage Project.

Date...07/07/2022.

Place of Consultation...Ladnu; PIU

Attendance Sheet

S. No.	Name	Occupation/Designation	Mobile Number	Signature
1	Jitendra	JEN PIU Ladnu	9783433002	Jitendra
2	Ram Kumar Singh	AcM cmisc-01	8949672561	Rubina
3	Kapil Soni	Supp. Eng	9544510813	Kapil Soni
4	Udan Singh	Env. Safeguard Specialist	9410085379	Udan Singh
5	Mani Kumari	Safeguard Support (Env & Safety)	836004324	Mani Kumari
6	Sher Mohd	SE (CMSC)	8094736147	Sher Mohd
7	Jeetan Kumar	EHSO (L & T)	9446224558	Jeetan Kumar
8	Anil Choudhary	Safety Specialist	7296965703	Anil Choudhary
9	Shubham Sen	ASD cum GIS	7728850452	Shubham Sen
10	Ram Kishan	SOT	960574607	Ram Kishan
11	Santosh	SOT	6376661453	Santosh
12	Kiran	SOT	9079860484	Kiran
13				
14				
15				
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19				
20				

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Environmental Monitoring Report

Project Number: 42267-031
Semestral Report: April 2022 – September 2022
February 2023

India: Rajasthan Secondary Towns Development Sector Project

Part 3 of 4: Appendix 7 (continued) and Appendices 8 - 10

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

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Asian Development Bank

Attendance Sheet of Safeguard orientation at 3.4 MLD STP site Sardarshahar Town on dated 09.08.2022

Project Name = Sewerage and Water Supply Sub-Project
Under RUIDP-IV

① Place - 3.4 MLD STP Safety Training Plantation DATE 09/08/2022

Time = 4:20 PM 3.4 MLD STP

<u>S.No.</u>	<u>Name</u>	<u>Designation</u>	<u>Signature</u>	<u>Mobile No</u>
1.	Iswari Kumar	Helper	[Signature]	8125804802
2.	Anotul Lal Singh	Carpenter	[Signature]	9341842015
3.	Vinod Kumar Singh	Carpenter	BINOJUL	9102882462
4.	Aradesh Singh	Fitter	[Signature]	9102919281
5.	Rajkumar Singh	Helper	[Signature]	9142987081
6.	Satish Kumar	Helper	[Signature]	6204892213
7.	Visham Narayan Singh	Helper	[Signature]	8982496442
8.	Saroj Gupta	Helper	[Signature]	6299137199
9.	Buraj Nath Singh	Helper	[Signature]	6207280803
10.	Sashi Viswakarma	Helper	[Signature]	-
11.				

Attendance Sheet of Safeguard orientation at Khetri on dated 24.08.2022

Rajasthan Secondary Town Development Sector Project (RSTDSP- Ph-IV)

Consultations with Stakeholders

Project Town: Khetri.....Name of Project: Water Supply & Sewerage Sub-ProjectDate: 18/08/2022Place of Consultation: Khetri - RUIOP Office**Attendance Sheet**

S.N.	Name	Occupation	Mobile Number	Signature
1				
2	Vijay Pal	ACM	9799363291	Vijay
3	Chandam Lal	SCE	7004937785	Lal
4	S. Venkata Narasimha	Billing Engr.	9052322611	S. Venkata
5	Vandana Srivastava	Environmental Safeguard Sp.	9410053799	Vandana
6	Mani Kumari	Safeguard Support staff (Env. & Safety)	8360043214	Mani Kumari
7	Yogesh Atreya	Safeguard support staff (Coord.)	9460176777	Yogesh
8	Raj Kapoor	Safety Eng.	9166949686	Raj Kapoor
9	Animesh	Support Eng.	8740832282	Animesh
10	PANIKAS KUMAR	Support Eng.	7742620365	Panikas
11	Anil Kumar Meena	Project Monitoring (MOTD - L&T)	9983845262	Anil
12				
13				
14				
15				
16				
17				
18				
19				
20				

Attendance Sheet of Safeguard orientation at Abu Road on dated 18.08.2022

Project Name:- Sewerage and Water Supply Subproject of
Abu Road

Safety Training Orientation at Labour Camp:-

S.No.	Name of Person.	Designation	Mobile No.	Signature.
1	Chanday	Helper	8404084361	चन्दय चिमाड
2	Sanjay muna	Helper	7023260374	संजय
3	Badai Lal	"	7300305860	बादल लाल
4	Ramesh	"	8003103355	रमेश
5	Rajpal	"	6375252144	राजपाल
6	Raj Kumar	"	9620464288	राजकुमार
7	Tajpal	"	9116597463	तंजपाल
8	Govardhan	"	7357359540	गोवर्धन
9	Anil	"	7728969641	अनिल
10	Pappu	"	7728969641	पंकज
11	Balukam	"		



APPENDIX-8: EHS ACTIVITIES BY DIFFERENT CONTRACTORS DURING REPORTING PERIOD (April 2022 to September 2022)

Didwana Town

Contractor Workmen Training



Contractor Workmen Training (CWT) at Didwana During May 2022



Mock Drill Training at Didwana



Medical Health Checkup



Glucose Distribution to Site Workers



Good Practise Barricading



Good Practise Excavation & trenching



Good Practise House Keeping



Good Practise PPEs



Good Practise Electrical



Good Practise Material handling



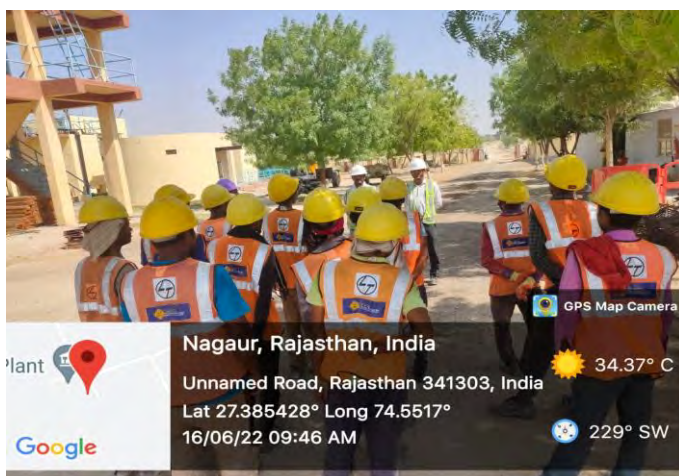
EMERGENCY CONTACT NUMBERS		
1.	Mr. Sanjay Kumar Singh	Project Manager 9068806779
2.	Mr. Suraj Kumar Singh	Construction Manager 8936943655
3.	Mr. Dhaval Pareek	Accountant 8875012390
4.	Mr. Robin Maprani	EHSO 9895978165
5.	Mr. Ranjit Kumar Jha	IE/Admin & Ambulance Handler 9717960919
6.	Mr. Arun C D	Emergency Response Committee Member 9597293643
7.	Mr. Anil Panchal	Emergency Response Committee Member 8696945316
8.	Mr. Ghanshyam	First Aider 9928477414
9.	Mr. Mohd Zahid	Security (Forja 1) 7568857886
10.	Mr. Fardeen	Ambulance Driver 9413587068
EXTERNAL EMERGENCY CONTACT NUMBERS		
01	Doctor's Chamber Multispecialty Center, Didwana	9461774919
02	Government Hospital Ambulance	108
03	Police Station Didwana, Nagaur, Rajasthan	100, 01580, 220 008
04	Didwana fire station - Adarsh Nagar, Didwana, Rajasthan 341303, India	101
05	CORONA (COVID 19) HELPLINE	011-23978046 or 1075

Good Practose - Fire extinguisher at Guest House

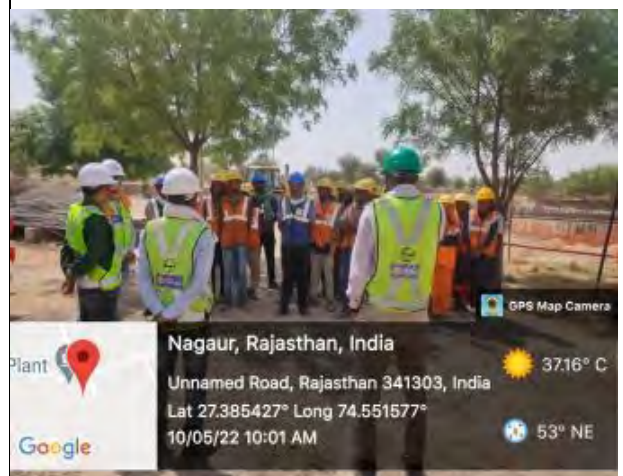
Good Practise Emergency No. Display



Good Practise - Posters & Sign Board



PEP talk



Alert Training



Tree Plantation on World Environment day



Safety day Awareness training to workers

Disinfection Activity

Makrana Town



Contractor workmen Training (CWT) at Makrana



Site Specific Training (SST) at Makrana



Mock Drill



Good Practise Barricading



Good Practise Earth Resistance testing



Good Practise House Keeping



Height Pass Test



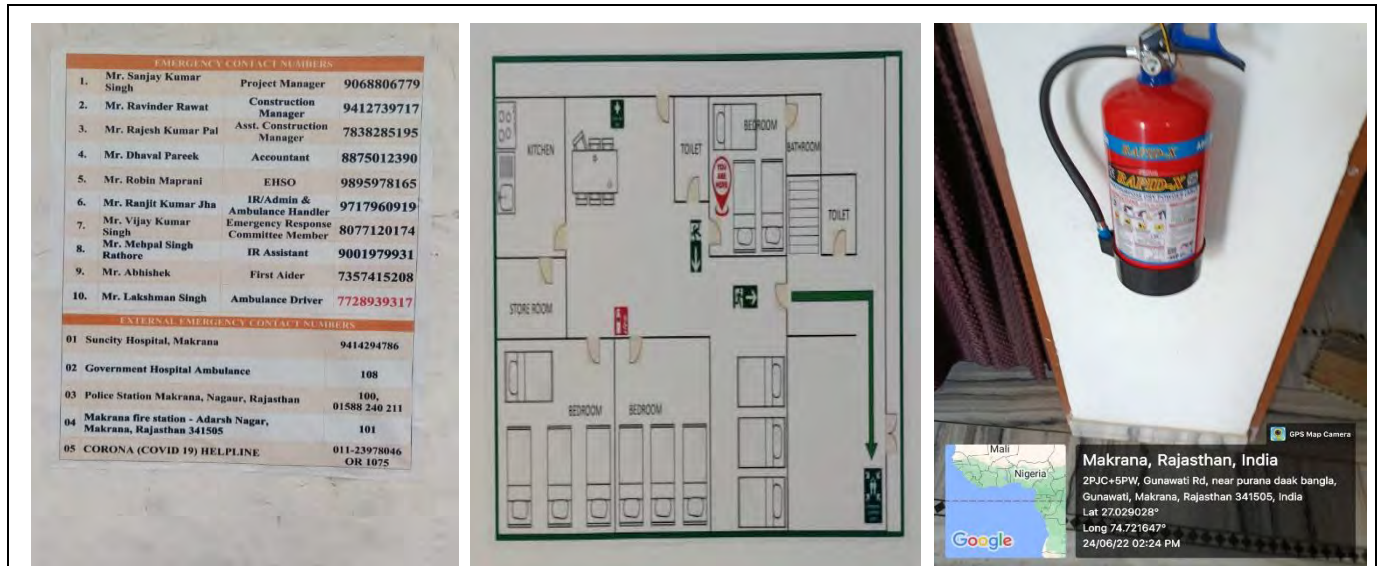
May Day (World labour day) Celebration



Pipe Laying Inauguration



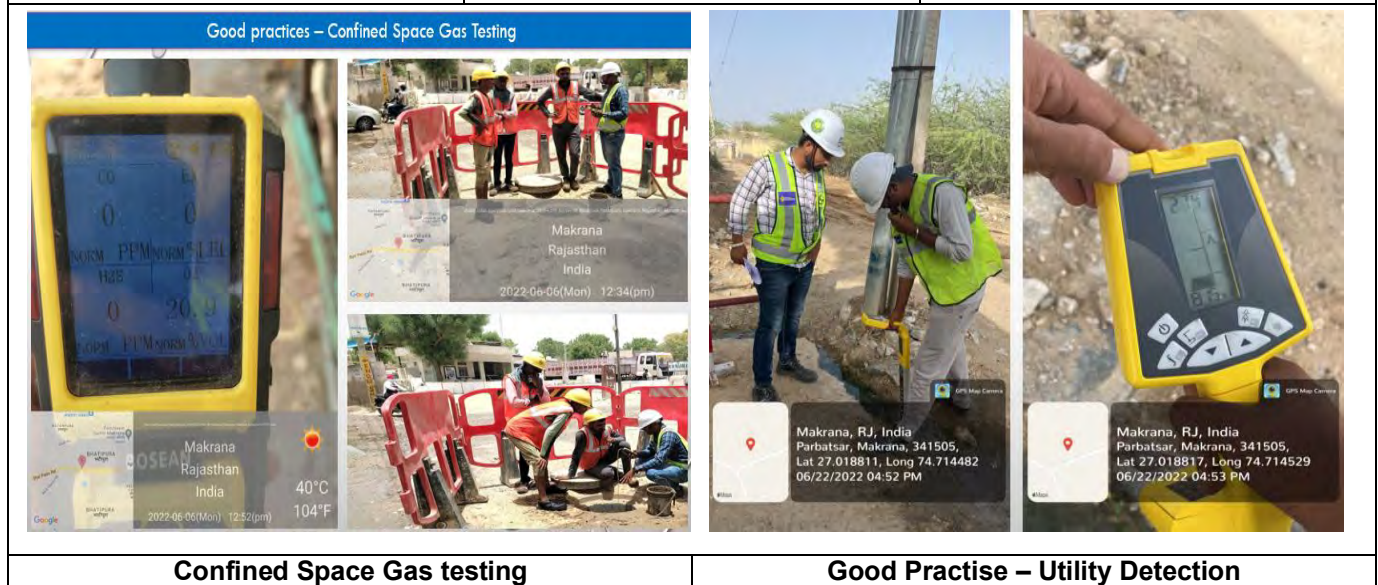
World no-tobacco day awareness program



Emergency No. Display

Evacuation layout Display

Fire Extinguisher at Staff Guest house



Confined Space Gas testing

Good Practise – Utility Detection

Kuchaman Town



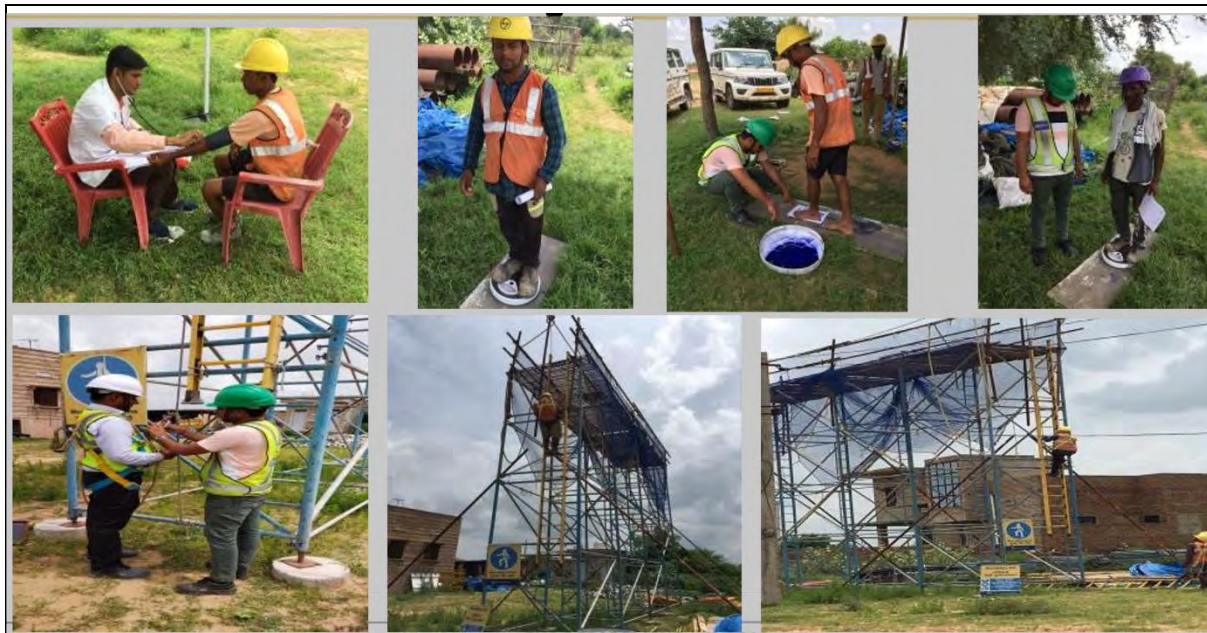
Excavation & Electrical Safety	First Aid Training
	Mock Drill_13.05.2022_Hit by Vehicle 
Working on road & Material Handling Safety	Mock Drill
	
Medical Health Check-up of workers at Site	

Ladnu Town

	
Medical Check-up camps for Staff & Workmen	Gender equality awareness session at Ladnu

	Environment RBT Training Heat Stress Training 
Electrical Inspection and Earthing pit installation	Environment RBT & Heat Stress Training
	
Height Work PPE Training	PEP Talk training
	
Fire & Evacuation mock Drill conducted at site	Mock drill slip trip & Fall

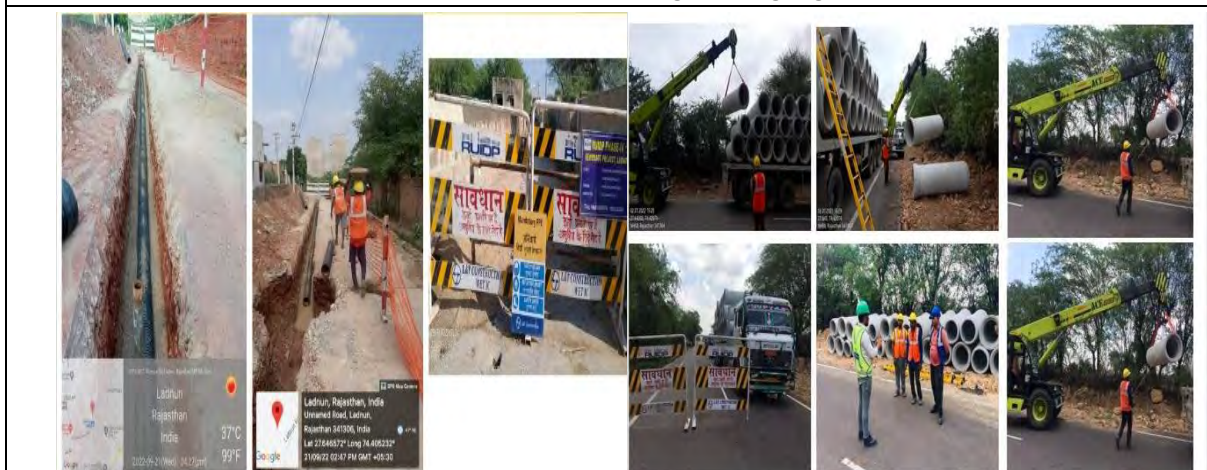
**Electrocution mock drill conducted at work site****May day (World labor day) Celebration at Ladnu****Tree Plantation on World Environment day****COVID awareness Implementation Posters****Safety Training**



Height Pass test for Workmen involved at work at height



Good Practise – Hard Barricading with Signage Board



Good Practises – Soil Away from Trench edges

Material Handling Safety



Mandawa Town



Khetri town

Labour Meeting about Awareness and Safety of covid-19



Face Mask Distribution



Medical Health Checkup of workers



Excavation Safety Training

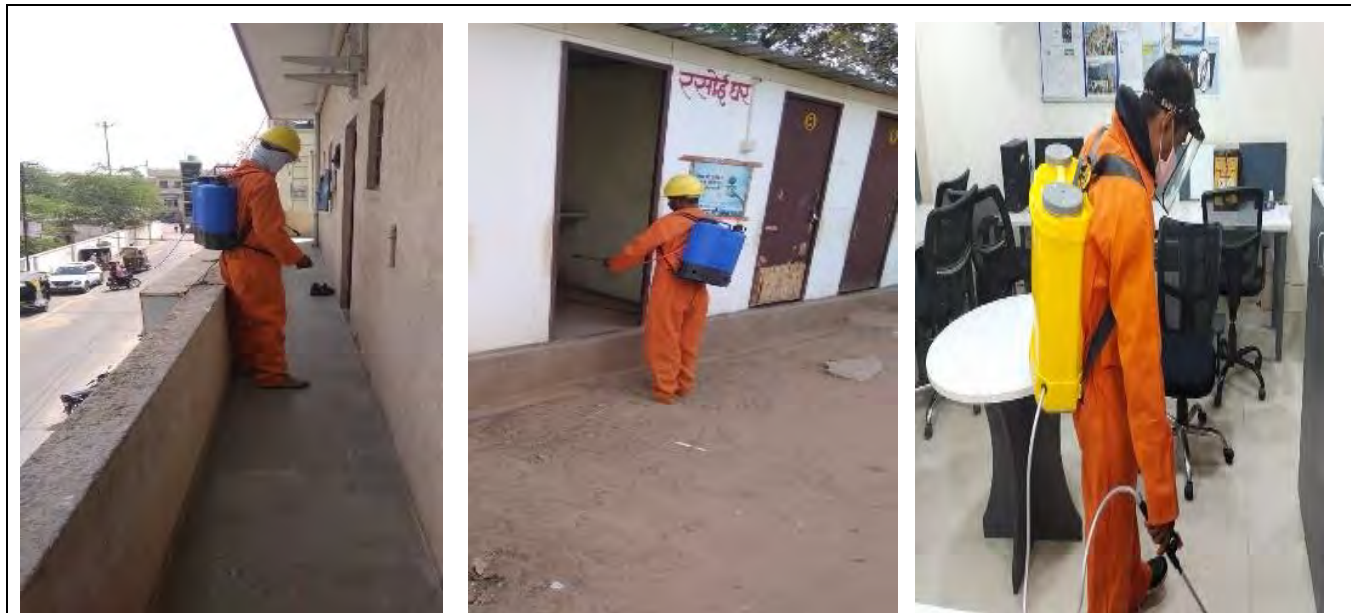
Ratangarh Town

Contractor Workmen Training (CWT)



EHS Alert Training

**Excavation Safety Training****lifting Safety Training****Site Specific Training (SST) - Manual Handling Safety Training****Site Specific Training (SST) - Manual Handling Safety Training****Welding Safety Training**

**DISINFICATION****Tree Plantation****Health Check Up Camp for workers****Health Awareness No Tobacco Campaign**



Abu Road Town



Contractor Workmen training CWT



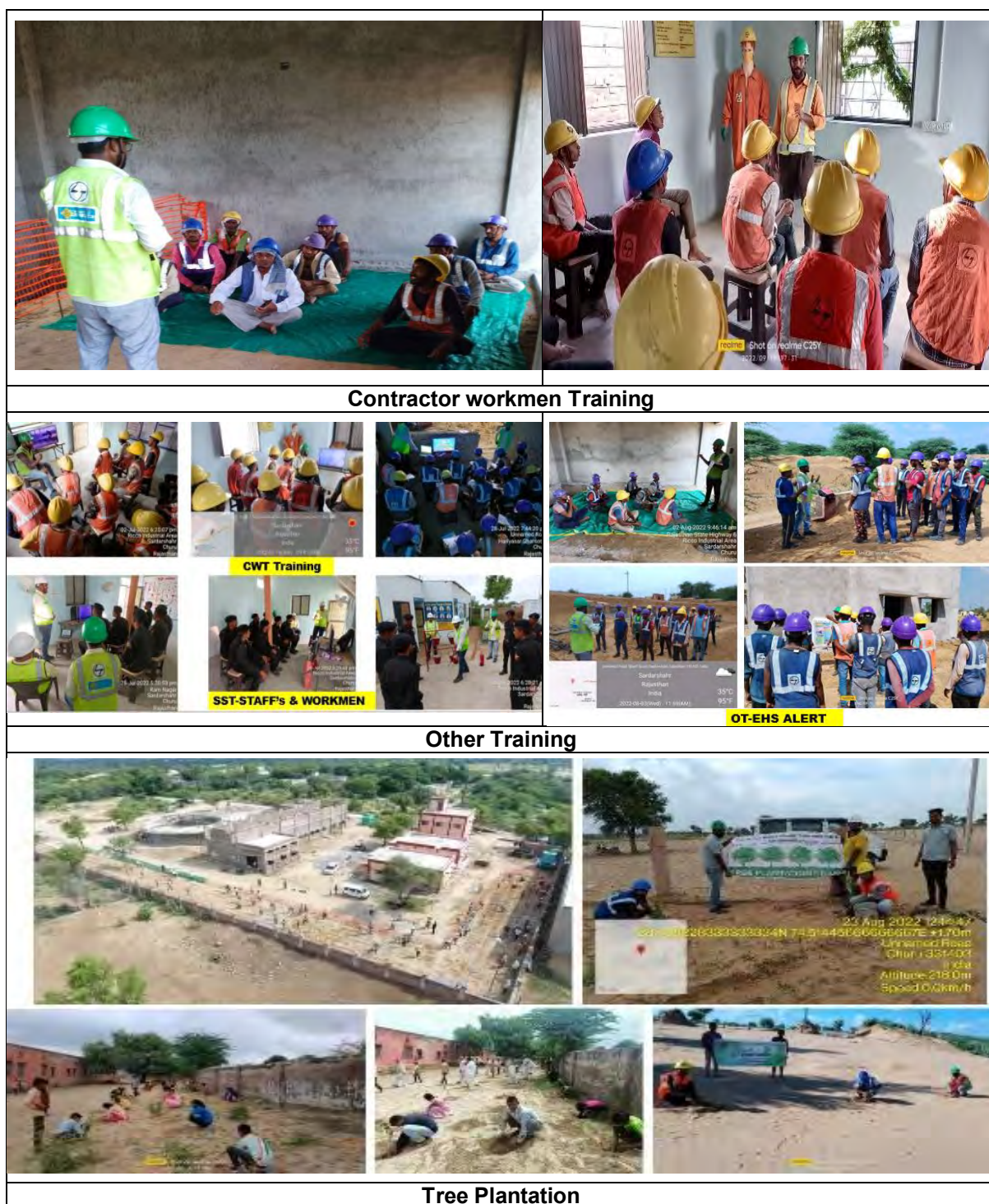
Site Specific Training SST

Heat Stress 	Mock Drill On Electrocutation 
MOCK DRILL on Heat Stress	MOCK DRILL on Electrocutation
WED'22 CELEBRATION (QUIZ COMPETITION) 	L&T SAFETY DAY CELEBRATION (ONLINE EHS QUIZ) 
WED CELEBRATION	L&T SAFETY DAY CELEBRATION
	
TREE PLANTATION	

Sirohi town

		
Mock drill on Electrical Shock and fall from the Height		Site Specific hazard Training

**Training on Excavation safety****Training for Electrical Safety****Training on Height Work****Training for Road Safety****Sardarshahar Town****EHS Induction & COVID Precaution Training**





Banswara Town



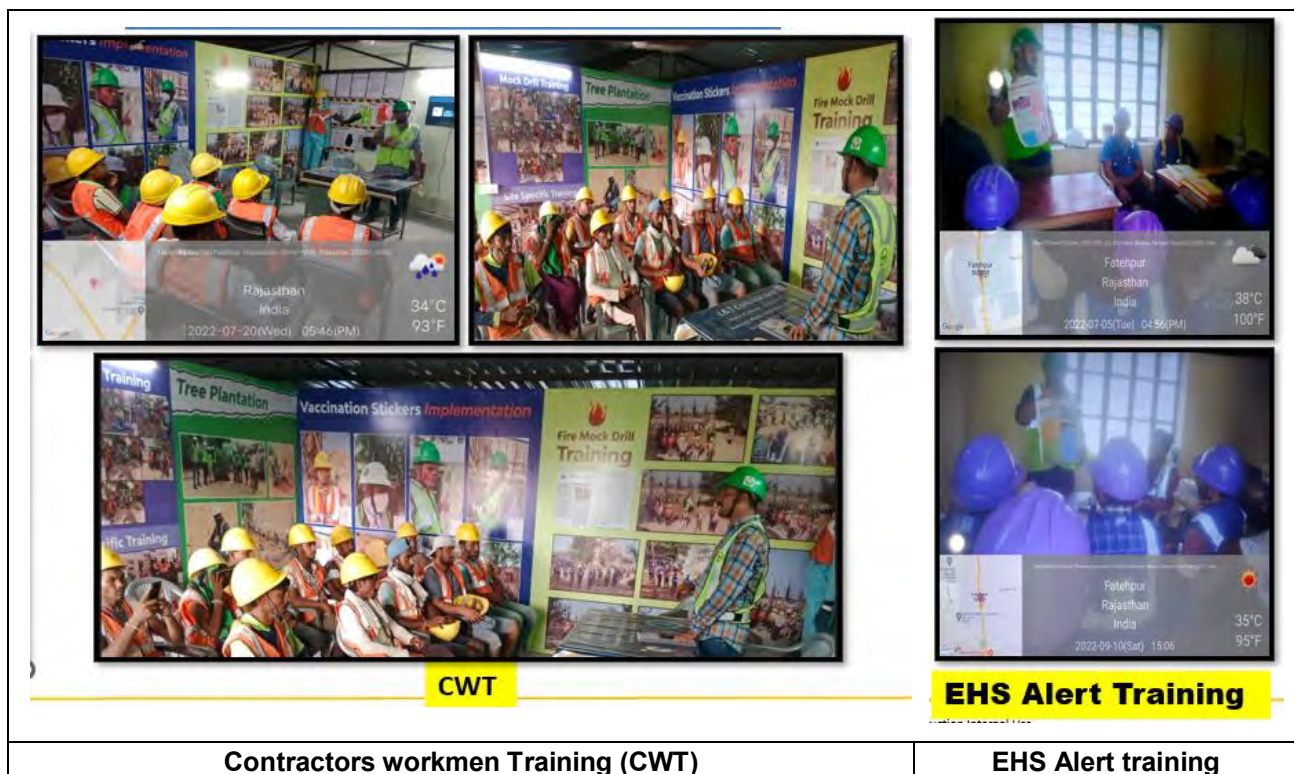


Pratapgarh Town





Fatehpur Town





EHS Alert Training

EHS Alert training



Health Check-up Camp

SST

Health Checkup of workers at site

Site Specific Training (SST)

Laxmangarh Town

**CWT****EHS Alert Training****Contractor Workmen Training CWT****EHS Alert training****Site Specific Training****Tree Plantation****Site Specific Training (SST)****Tree Plantation**

**Appendix 9: SAFEGUARD TRAININGS CONDUCTED BY CONTRACTORS
(April 2022 to September 2022)**

Didwana Town					
S. No.	Activities done	Date	Location	Trainer	No. of participants
DidwanaTown					
1	Glucose Distribution	01/05/22	All sites	Robin Maprani	150
2	May Day Celebration	01/05/22	Store	Robin Maprani	100
3	Contractor Workmen Training 1	01/05/22	Zone 11	Mehrudeen	7
4	Housekeeping Campaign 1	02/05/22	Zone 06	Robin Maprani	5
5	EHS Alert 3	02/05/22	Zone 06	Robin Maprani	6
6	Induction Training 3	02/05/22	Zone 11	Mehrudeen	7
7	Induction Training 1	03/05/22	Zone 06	Robin Maprani	5
8	Housekeeping Campaign 2	09/05/22	Zone 05	Robin Maprani	8
9	EHS Alert 4	09/05/22	Zone 05	Robin Maprani	8
10	EHS Alert 1	11/05/22	Zone 11	Robin Maprani	5
11	Mock drill 1	11/05/22	Zone 11	Robin Maprani	8
12.	EHS Walkthrough by PM	15/05/22	All sites	Robin Maprani	10
13	Housekeeping Campaign 3	16/05/22	Zone 11	Robin Maprani	7
14	Site Specific training 1	16/05/22	Zone 11	Mehrudeen	5
15	Site Specific training 3	20/05/22	Zone 05	Robin Maprani	9
16	Induction Training 4	20/05/22	Zone 06	Mehrudeen	6
17	Contractor Workmen Training 2	21/05/22	Zone 05	Mehrudeen	6
18	Site Specific training 2	23/05/22	Zone 06	Robin Maprani	8
19	SOT Team visit	23/05/22	All sites	Robin Maprani	20
20	Cluster manager audit	25/05/22	All sites	Robin Maprani	50
21	Housekeeping Campaign 4	23/05/22	Zone 06	Robin Maprani	6
22	Mock Drill 2	25/05/22	Zone 05	Robin Maprani	7
23	EHS Alert 2	25/05/22	Zone 05	Mehrudeen	7
24	Height Pass Test	25/05/22	Store	Robin Maprani	25
25	Reward Distribution	28/05/22	Office and Site	Robin Maprani	6
26	Monthly safety committee meeting	28/05/22	Office	Robin Maprani	32
27	Earth Resistance Testing	30/05/22	Store, STP, WMC	Robin Maprani	1
28	Induction Training 2	30/05/22	Zone 05	Robin Maprani	8
29	Emergency number & Evacuation layout display	01/06/22	All sites	Robin Maprani	2
30	Fire extinguisher provided at staff guest house	01/06/22	Store	Robin Maprani	2
31	Contractor Workmen Training 1	01/06/22	Zone 11	Mehrudeen	7
32	Housekeeping Campaign 1	02/06/22	Zone 06	Robin Maprani	5
33	EHS Alert 3	02/06/22	Zone 06	Robin Maprani	6
34	Induction Training 3	02/06/22	Zone 11	Mehrudeen	7
35	Induction Training 1	03/06/22	Zone 06	Robin Maprani	5
36	Housekeeping Campaign 2	09/06/22	Zone 05	Robin Maprani	8

37	EHS Alert 4	09/06/22	Zone 05	Robin Maprani	8
38	Mock drill 1	11/06/22	Zone 11	Robin Maprani	8
39	EHS Alert 1	11/06/22	Zone 11	Robin Maprani	5
40	EHS Walkthrough by PM	15/06/22	All sites	Robin Maprani	10
41	Housekeeping Campaign 3	16/06/22	Zone 11	Robin Maprani	7
42	Site Specific training 1	16/06/22	Zone 11	Mehrudeen	5
43	Induction Training 4	20/06/22	Zone 06	Mehrudeen	6
44	Contractor Workmen Training 2	21/06/22	Zone 05	Mehrudeen	6
45	Site Specific training 2	23/06/22	Zone 06	Robin Maprani	8
46	Housekeeping Campaign 4	23/06/22	Zone 06	Robin Maprani	6
47	Food handlers medical test	23/06/22	Kitchen and office	Robin Maprani	5
48	EHS Alert 2	25/06/22	Zone 05	Mehrudeen	7
49	Mock Drill 2	25/06/22	Zone 05	Robin Maprani	7
50	Height Pass Test	25/06/22	Store	Robin Maprani	25
51	Posters & signage display	25/06/22	All sites	Robin Maprani	3
52	Reward Distribution	28/06/22	Office and Site	Robin Maprani	6
53	Monthly safety committee meeting	28/06/22	Office	Robin Maprani	32
54	Papaya shake distribution	28/06/22	Zone 05	Robin Maprani	30
55	Earth Resistance Testing	30/06/22	Store, STP, WMC	Robin Maprani	1
56	RCCB testing	30/06/22	Store, STP, WMC	Robin Maprani	1
57	Induction Training 2	30/06/22	Zone 05	Robin Maprani	8
58	EHS Alert 2	01/07/22	Zone 11	Mehrudeen	7
59	Site Specific training 2	02/07/22	Zone 06	Robin Maprani	8
60	Induction Training 2	02/07/22	Zone 11	Robin Maprani	8
61	Housekeeping Campaign 1	02/07/22	Zone 06	Robin Maprani	5
62	EHS Alert 4	03/07/22	Zone 11	Robin Maprani	8
63	Housekeeping Campaign 2	09/07/22	Zone 05	Robin Maprani	8
64	Induction Training 3	09/07/22	Zone 05	Mehrudeen	7
65	Contractor Workmen Training 2	11/07/22	Zone 11	Mehrudeen	6
66	Mock drill 1	11/07/22	Zone 11	Robin Maprani	8
67	EHS Walkthrough by PM	15/07/22	All sites	Robin Maprani	10
68	Housekeeping Campaign 3	16/07/22	Zone 11	Robin Maprani	7
69	Induction Training 4	16/07/22	Zone 06	Mehrudeen	6
70	Contractor Workmen Training 1	20/07/22	Zone 05	Mehrudeen	7
71	EHS Alert 3	21/07/22	Zone 06	Robin Maprani	6
72	EHS Alert 1	23/07/22	Zone 05	Robin Maprani	5
73	Housekeeping Campaign 4	23/07/22	Zone 06	Robin Maprani	6
74	Mock Drill 2	25/07/22	Zone 05	Robin Maprani	7
75	Height Pass Test	25/07/22	Store	Robin Maprani	25
76	Induction Training 1	25/07/22	Zone 06	Robin Maprani	5
77	Reward Distribution	28/07/22	Office and Site	Robin Maprani	6
78	Monthly safety committee meeting	28/07/22	Office	Robin Maprani	32
79	Earth Resistance Testing	30/07/22	Store, STP, WMC	Robin Maprani	1
80	RCCB testing	30/07/22	Store, STP, WMC	Robin Maprani	1

81	Site Specific training 1	30/07/22	Zone 05	Mehrudeen	5
82	EHS Alert 2	01/08/22	Zone 11	Mehrudeen	7
83	EHS Walkthrough by PM	02/08/22	All sites	10	
84	Site Specific training 2	02/08/22	Zone 06	Robin Maprani	8
85	Induction Training 2	02/08/22	Zone 11	Robin Maprani	8
86	EHS Alert 4	03/08/22	Zone 11	Robin Maprani	8
87	Induction Training 3	09/08/22	Zone 05	Mehrudeen	7
88	Contractor Workmen Training 2	11/08/22	Zone 11	Mehrudeen	6
89	Reward Distribution	11/08/22	Office and Site	Robin Maprani	6
90	Independence Day Celebration	15/08/22	Store, WMC & office	Robin Maprani	80
91	Site & Office Disinfection	15/08/22	All sites	Robin Maprani	5
92	Iron Syrup Distribution for women	16/08/22	STP	Robin Maprani	10
93	Quiz for Workers	16/08/22	All sites	Robin Maprani	50
94	Housekeeping Campaign 3	16/08/22	Zone 11	Robin Maprani	7
95	Housekeeping Campaign 4	16/08/22	Zone 06	Robin Maprani	6
96	Mock drill 1	16/08/22	Zone 11	Robin Maprani	8
97	Induction Training 4	16/08/22	Zone 06	Mehrudeen	6
98	Contractor Workmen Training 1	20/08/22	Zone 05	Mehrudeen	7
99	EHS Alert 3	21/08/22	Zone 06	Robin Maprani	6
100	EHS Alert 1	23/08/22	Zone 05	Robin Maprani	5
101	Wellness Champion Sticker Display	23/08/22	All sites	Robin Maprani	20
102	Mock Drill 2	23/08/22	Zone 05	Robin Maprani	7
103	Induction Training 1	25/08/22	Zone 06	Robin Maprani	5
104	Monthly safety committee meeting	25/08/22	Office	Robin Maprani	32
105	Safety Champion Sticker Display	28/08/22	All sites	Robin Maprani	20
106	Carbolic Acid Implementation	28/08/22	Store, WMC & office	Robin Maprani	5
107	Housekeeping Campaign 1	28/08/22	Zone 06	Robin Maprani	5
108	Housekeeping Campaign 2	28/08/22	Zone 05	Robin Maprani	8
109	Site Specific training 1	30/08/22	Zone 05	Mehrudeen	5
110	EHS Alert 2	01/09/22	Zone 11	Mehrudeen	7
111	EHS Walkthrough by PM	02/09/22	All sites	Robin Maprani	10
112	Site Specific training 2	02/09/22	Zone 06	Robin Maprani	8
113	Induction Training 2	02/09/22	Zone 11	Robin Maprani	8
114	EHS Alert 4	03/09/22	Zone 11	Robin Maprani	8
115	Induction Training 3	09/09/22	Zone 05	Mehrudeen	7
116	Contractor Workmen Training 2	11/09/22	Zone 11	Mehrudeen	6
117	Height pass test	15/09/22	STP	Robin Maprani	8
118	Induction Training 4	16/09/22	Zone 06	Mehrudeen	6
119	Quiz for Workers	16/09/22	All sites	Robin Maprani	50
120	Housekeeping Campaign 4	16/09/22	Zone 06	Robin Maprani	6
121	Housekeeping Campaign 3	16/09/22	Zone 11	Robin Maprani	7
122	Mock drill 1	16/09/22	Zone 11	Robin Maprani	8
123	Contractor Workmen Training 1	20/09/22	Zone 05	Mehrudeen	7
124	EHS Alert 3	21/09/22	Zone 06	Robin Maprani	6

125	Mock Drill 2	23/09/22	Zone 05	Robin Maprani	7
126	RCCB inspection	23/09/22	All sites	Robin Maprani	10
127	EHS Alert 1	23/09/22	Zone 05	Robin Maprani	5
128	Induction Training 1	25/09/22	Zone 06	Robin Maprani	5
129	Earth resistance testing	28/09/22	All sites	Robin Maprani	10
130	Blood Donation	28/09/22	Hospital	Robin Maprani	1
131	Housekeeping Campaign 1	28/09/22	Zone 06	Robin Maprani	5
132	Housekeeping Campaign 2	28/09/22	Zone 05	Robin Maprani	8
133	Reward Distribution	30/09/22	Office and Site	Robin Maprani	6
134	Monthly safety committee meeting	30/09/22	Office	Robin Maprani	32
135	Vishwakarma Pooja	30/09/22	Store, WMC & office	Robin Maprani	150
136	Site Specific training 1	30/09/22	Zone 05	Mehrudeen	5

Mandawa Town

S.No.	Training name	Date of Activity	Location	Trainer	Participants
1	Work at height training	17-05-2022	STP	Manoj	07
2	Confined Space Safety Training	24-05-2022	ZONE -01	Manoj	03
3	Work at height training	11-06-2022	STP	Manoj	07
4	Electrical Safety Training	20-06-2022	SPS	Manoj	04
5	Excavation Work Training	17-07-2022	Ward No-17	Manoj	11
6	Height Work Safety Training	23-07-2022	STP	Manoj	06
7	Electrical Work Training	16-08-2022	STP	Manoj	09
8	Height Work Safety Training	21-08-2022	STP	Manoj	05
9	Work at height training	20-09-2022	STP	Manoj	07
10	Electrical Safety Training	28-09-2022	STP	Manoj	04

Ladnu town

S.No.	Training name	Date of Activity	Location	Demonstrators	Participants
1	Fire & Evacuation Mock	14-05-2022	On site	Jeevan Kumar p k , Anil, Abhishek	13
2	Electrocution	23-05-2022	On site	Jeevan Kumar p k , Anil, Abhishek	5
3	Slip trip Fall	31-05-2022	On Site	Jeevan Kumar p k , Anil, Abhishek	5
4	Electrocution Mock	23-07-2022	On site	Jeevan Kumar p k , Anil, Abhishek	5
5	Hit By Vehicle Mock	27-07-2022	On site	Jeevan Kumar p k , Anil, Abhishek	5
6	Slip Trip Fall	27-08-2022	On site	Jeevan Kumar p k , Anil, Abhishek	5
7	Electrocution	20/09/22	Asota	Jeevan Kumar p k , Anil Choudhary	5
8	Slip Trip Fall	27/09/22	Zone 2	Jeevan Kumar p k , Abhishek Mishra	5
9	Induction Training	27/09/22	On site	Jeevan Kumar p k , Anil Choudhary, Abhishek Mishra	5

Makrana Town

Appendix 9: SAFEGUARD TRAININGS CONDUCTED BY CONTRACTORS (April 2022 to September 2022)					
S. No.	Activities done	Date	Location	Trainer	No. of participants
MakranaTown					
1	Contractor Workmen Training 1	01/05/22	Zone 06	Zakir Khan	7
2	Glucose Distribution	01/05/22	All sites	Shyam Pal	150
3	May Day Celebration	01/05/22	Store	Shyam Pal	100
4	Housekeeping Campaign 4	02/05/22	Zone 06	Shyam Pal	6
5	Induction Training 3	02/05/22	Zone 04	Zakir Khan	7
6	EHS Alert 3	02/05/22	Zone 07	Robin Maprani	6
7	Induction Training 1	03/05/22	Zone 04	Shyam Pal	5
8	Housekeeping Campaign 2	09/05/22	Zone 05	Shyam Pal	5
9	EHS Alert 4	09/05/22	Zone 04	Shyam Pal	5
10	Induction Training 2	10/05/22	Zone 06	Robin Maprani	8
11	Monthly safety committee meeting	11/05/22	Office	Shyam Pal	31
12.	EHS Alert 1	11/05/22	Zone 05	Shyam Pal	8
13	Reward Distribution	16/05/22	Office and Site	Shyam Pal	6
14	Housekeeping Campaign 3	16/05/22	Zone 04	Shyam Pal	4
15	EHS Walkthrough by PM	16/05/22	All sites	Shyam Pal	10
16	Site Specific training 1	16/05/22	Zone 06	Zakir Khan	5
17	Housekeeping Campaign 1	20/05/22	Zone 06	Shyam Pal	7
18	Site Specific training 3	20/05/22	Zone 05	Shyam Pal	9
19	Induction Training 4	20/05/22	Zone 06	Zakir Khan	6
20	Contractor Workmen Training 2	21/05/22	Zone 05	Zakir Khan	6
21	Mock Drill 2	21/05/22	Zone 07	Shyam Pal	8
22	SOT Team visit	22/05/22	All sites	Shyam Pal	20
23	Mock drill 1	23/05/22	Zone 04	Shyam Pal	5
24	Site Specific training 2	23/05/22	Zone 05	Robin Maprani	8
25	EHS Alert 2	25/05/22	Zone 06	Zakir Khan	7
26	Cluster manager audit	26/05/22	All sites	Shyam Pal	50
27	Height Pass Test	30/05/22	Store	Shyam Pal	22
28	Earth Resistance Testing	31/05/22	Store, STP, WMC	Shyam Pal	1
29	World no tobacco day awareness program	31/05/22	STP	Shyam Pal	30
30	Food Handlers Medical Test	01/06/22	Kitchen & Office	Shyam Pal	5
31	Emergency number & Evacuation layout display	01/06/22	All sites	Shyam Pal	2
32	Contractor Workmen Training 1	01/06/22	Zone 06	Zakir Khan	7
33	Housekeeping Campaign 4	02/06/22	Zone 06	Shyam Pal	6
34	EHS Alert 3	02/06/22	Zone 07	Robin Maprani	6
35	Induction Training 3	02/06/22	Zone 04	Zakir Khan	7

36	Induction Training 1	03/06/22	Zone 04	Shyam Pal	5
37	Housekeeping Campaign 2	09/06/22	Zone 05	Shyam Pal	5
38	EHS Alert 4	09/06/22	Zone 04	Shyam Pal	5
39	Induction Training 2	10/06/22	Zone 06	Robin Maprani	8
40	Monthly safety committee meeting	11/06/22	Office	Shyam Pal	31
41	EHS Alert 1	11/06/22	Zone 05	Shyam Pal	8
42	PD Site visit	12/06/22	All sites	Shyam Pal	10
43	Housekeeping Campaign 3	16/06/22	Zone 04	Shyam Pal	4
44	Reward Distribution	16/06/22	Office and Site	Shyam Pal	6
45	EHS Walkthrough by PM	16/06/22	All sites	Shyam Pal	10
46	Site Specific training 1	16/06/22	Zone 06	Zakir Khan	5
47	New village work inauguration	20/06/22	Zone 02	Zakir Khan	50
48	Housekeeping Campaign 1	20/06/22	Zone 06	Zakir Khan	7
49	Induction Training 4	20/06/22	Zone 06	Zakir Khan	6
50	Contractor Workmen Training 2	21/06/22	Zone 05	Zakir Khan	6
51	Mock Drill 2	21/06/22	Zone 07	Zakir Khan	8
52	Confined space gas testing on manhole entry	22/06/22	Near SPS	Zakir Khan	10
53	Mock drill 1	23/06/22	Zone 04	Zakir Khan	5
54	Utility detector implementation	24/06/22	Zone 08	Zakir Khan	5
55	Site Specific training 2	23/06/22	Zone 05	Robin Maprani	8
56	EHS Alert 2	25/06/22	Zone 06	Zakir Khan	7
57	Posters & signage display	25/06/22	All sites	Zakir Khan	3
58	Lunch for Workers	25/06/22	STP & SPS	Zakir Khan	100
59	Height Pass Test	30/06/22	Store	Zakir Khan	22
60	Contractor Workmen Training 1	01/07/22	Zone 06	Zakir Khan	7
61	Housekeeping Campaign 4	02/07/22	Zone 06	Zakir Khan	6
62	EHS Alert 3	02/07/22	Zone 07	Robin Maprani	6
63	Induction Training 3	02/07/22	Zone 04	Zakir Khan	7
64	Induction Training 1	03/07/22	Zone 04	Shyam Pal	5
65	Housekeeping Campaign 2	09/07/22	Zone 05	Zakir Khan	5
66	EHS Alert 4	09/07/22	Zone 04	Shyam Pal	5
67	Induction Training 2	10/07/22	Zone 06	Robin Maprani	8
68	Monthly safety committee meeting	11/07/22	Office	Zakir Khan	31
69	EHS Alert 1	11/07/22	Zone 05	Shyam Pal	8
70	Site Specific training 1	16/07/22	Zone 06	Zakir Khan	5
71	Housekeeping Campaign 3	16/07/22	Zone 04	Zakir Khan	4
72	Reward Distribution	16/07/22	Office and Site	Zakir Khan	6
73	EHS Walkthrough by PM	16/07/22	All sites	Zakir Khan	10
74	Housekeeping Campaign 1	20/07/22	Zone 06	Zakir Khan	7
75	Induction Training 4	20/07/22	Zone 06	Zakir Khan	6
76	Mock Drill 2	21/07/22	Zone 07	Zakir Khan	8
77	Contractor Workmen Training 2	21/07/22	Zone 05	Zakir Khan	6

78	Mock drill 1	23/07/22	Zone 04	Zakir Khan	5
79	Site Specific training 2	23/07/22	Zone 05	Robin Maprani	8
80	EHS Alert 2	25/07/22	Zone 06	Zakir Khan	7
81	Height Pass Test	30/07/22	Store	Zakir Khan	22
82	Contractor Workmen Training 1	01/08/22	Zone 06	Zakir Khan	7
83	Housekeeping Campaign 1	02/08/22	Zone 06	Zakir Khan	7
84	Quiz for Workers	02/08/22	All sites	Zakir Khan	50
85	EHS Alert 3	02/08/22	Zone 07	Robin Maprani	6
86	Induction Training 3	02/08/22	Zone 04	Zakir Khan	7
87	Induction Training 1	03/08/22	Zone 04	Shyam Pal	5
88	EHS Walkthrough by PM	09/08/22	All sites	Shyam Pal	10
89	Mock drill 1	09/08/22	Zone 04	Shyam Pal	16
90	EHS Alert 4	09/08/22	Zone 04	Shyam Pal	5
91	Induction Training 2	10/08/22	Zone 06	Robin Maprani	8
92	Housekeeping Campaign 3	11/08/22	Zone 04	Robin Maprani	4
93	Safety Champion Sticker Display	11/08/22	All sites	Robin Maprani	20
94	EHS Alert 1	11/08/22	Zone 05	Shyam Pal	8
95	Independence Day Celebration	15/08/22	Store, WMC & office	Shyam Pal	80
96	Mock Drill 2	16/08/22	Zone 07	Shyam Pal	8
97	Housekeeping Campaign 2	16/08/22	Zone 05	Shyam Pal	5
98	Wellness Champion Sticker Display	16/08/22	All sites	Zakir Khan	20
99	Site & Office Disinfection	16/08/22	All sites	Zakir Khan	5
100	Site Specific training 1	16/08/22	Zone 06	Zakir Khan	5
101	Height Pass Test	20/08/22	Store		6
102	Induction Training 4	20/08/22	Zone 06	Zakir Khan	6
103	Monthly safety committee meeting	21/08/22	Office	Zakir Khan	31
104	Contractor Workmen Training 2	21/08/22	Zone 05	Zakir Khan	6
105	Reward Distribution	23/08/22	Office and Site	Zakir Khan	6
106	Site Specific training 2	23/08/22	Zone 05	Robin Maprani	8
107	EHS Alert 2	25/08/22	Zone 06	Zakir Khan	7
108	Housekeeping Campaign 4	30/08/22	Zone 06	Zakir Khan	6
109	Carbolic Acid Implementation	30/08/22	Store, WMC & office	Zakir Khan	5
110	Contractor Workmen Training 1	01/09/22	Zone 06	Zakir Khan	7
111	Induction Training 3	02/09/22	Zone 04	Zakir Khan	7
112	Housekeeping Campaign 1	02/09/22	Zone 06	Zakir Khan	7
113	Quiz for Workers	02/09/22	All sites	Zakir Khan	50
114	EHS Alert 3	02/09/22	Zone 07	Robin Maprani	6
115	Induction Training 1	03/09/22	Zone 04	Shyam Pal	5
116	EHS Walkthrough by PM	09/09/22	All sites	Shyam Pal	10
117	Mock drill 1	09/09/22	Zone 04	Shyam Pal	16
118	EHS Alert 4	09/09/22	Zone 04	Shyam Pal	5

119	Induction Training 2	10/09/22	Zone 06	Robin Maprani	8
120	EHS Alert 1	11/09/22	Zone 05	Shyam Pal	8
121	Housekeeping Campaign 3	11/09/22	Zone 04	Shyam Pal	4
122	Earth resistance testing	11/09/22	All sites	Shyam Pal	10
123	Mock Drill 2	16/09/22	Zone 07	Shyam Pal	8
124	Housekeeping Campaign 2	16/09/22	Zone 05	Shyam Pal	5
125	RCCB testing	16/09/22	All sites	Zakir Khan	10
126	Utility detection	16/09/22	All sites	Zakir Khan	5
127	Site Specific training 1	16/09/22	Zone 06	Zakir Khan	5
128	Induction Training 4	20/09/22	Zone 06	Zakir Khan	6
129	Height Pass Test	20/09/22	Store	Zakir Khan	6
130	Contractor Workmen Training 2	21/09/22	Zone 05	Zakir Khan	6
131	Site Specific training 2	23/09/22	Zone 05	Robin Maprani	8
132	EHS Alert 2	25/09/22	Zone 06	Zakir Khan	7
133	Housekeeping Campaign 4	30/09/22	Zone 06	Zakir Khan	6
134	Reward Distribution	30/09/22	Office and Site	Zakir Khan	6
135	Monthly safety committee meeting	30/09/22	Office	Zakir Khan	31
136	Vishwakarma Pooja	30/09/22	Store, WMC & office	Zakir Khan	150

Kuchaman Town

S.No.	Training name	Date of Activity	Location	Demonstrators	Participants	Remarks
1	FAT (First Aid Training)	05-05-2022	Kuchaman	Anurag Bagherwal	6 (Workmen)	
2	SST (Working on road & Material Handling Safety)	05-05-2022	Kuchaman	Anurag Bagherwal	6 (Workmen)	
3	FAT (First Aid Training)	10-05-2022	Kuchaman	Anurag Bagherwal	7 (Workmen)	
4	CWT(Excavation & Electrical Safety)	10-05-2022	Kuchaman	Anurag Bagherwal	7(Workmen)	
5	FAT (First Aid Training)	11-05-2022	Kuchaman	Anurag Bagherwal	8 (Workmen)	
6	CWT(Excavation & Electrical Safety)	11-05-2022	Kuchaman	Anurag Bagherwal	8(Workmen)	
7	CWT(Excavation & Electrical Safety)	12-05-2022	Kuchaman	Anurag Bagherwal	23 (Workmen)	
8	CWT(Excavation & Electrical Safety)	13-05-2022	Kuchaman	Anurag Bagherwal	11 (Workmen)	
9	MOCK DRILL (HIT BY VEHICLE)	13-05-2022	Kuchaman	Anurag Bagherwal	6 (Workmen)	
10	CWT(Excavation & Electrical Safety)	16-05-2022	Kuchaman	Anurag Bagherwal	10 (Workmen)	
11	CWT(Excavation & Electrical Safety)	24-05-2022	Kuchaman	Anurag Bagherwal	14 (Workmen)	
12	FAT (First Aid Training)	24-05-2022	Kuchaman	Anurag Bagherwal	14 (Workmen)	
13	CWT(Excavation & Electrical Safety)	24-05-2022	Kuchaman	Anurag Bagherwal	14 (Workmen)	
15	CWT(Excavation & Electrical Safety,)	25-05-2022	Kuchaman	Anurag Bagherwal	8 (Workmen)	
16	CWT(Excavation & Electrical Safety,)	27-05-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)	
17	MOCK DRILL (ELECTROUTION)	27-04-2022	Kuchaman	Anurag Bagherwal	6 (Workmen)	
18	SST (Working on road & Material Handling Safety)	31-05-2022	Kuchaman	Anurag Bagherwal	6 (Workmen)	
19	CWT (Excavation & Electrical Safety)	02-06-2022	Kuchaman	Anurag Bagherwal	17 (Workmen)	
20	CWT (Excavation & Electrical Safety)	06-06-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)	
21	CWT (Excavation & Electrical Safety)	08-06-2022	Kuchaman	Anurag Bagherwal	6 (Workmen)	
22	MOCK DRILL (HIT BY VEHICLE)	14-06-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)	
23	FAT (First Aid Training)	18-06-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)	
24	SST (Working on road & Material Handling Safety)	18-06-2022	Kuchaman	Anurag Bagherwal	6 (Workmen)	
25	CWT (Excavation & Electrical Safety)	20-06-2022	Kuchaman	Anurag Bagherwal	6 (Workmen)	
26	FAT (First Aid Training)	20-06-2022	Kuchaman	Anurag Bagherwal	6 (Workmen)	
27	FAT (First Aid Training)	21-06-2022	Kuchaman	Anurag Bagherwal	9 (Workmen)	
28	CWT (Excavation & Electrical Safety)	21-06-2022	Kuchaman	Anurag Bagherwal	9 (Workmen)	
29	FAT (First Aid Training)	22-06-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)	
30	CWT (Excavation & Electrical Safety)	22-06-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)	
31	CWT (Excavation & Electrical Safety)	22-06-2022	Kuchaman	Anurag Bagherwal	6 (Workmen)	

32	MOCK DRILL (ELECTROUTION)	23-06-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)	
33	SST (Working on road & Material Handling Safety)	27-06-2022	Kuchaman	Anurag Bagherwal	6 (Workmen)	
34	CWT (Excavation & Electrical Safety)	08-07-2022	Kuchaman	Anurag Bagherwal	15 (Workmen)	
35	CWT (Excavation & Electrical Safety)	11-07-2022	Kuchaman	Anurag Bagherwal	9 (Workmen)	
36	CWT (Excavation & Electrical Safety)	12-07-2022	Kuchaman	Anurag Bagherwal	4 (Workmen)	
37	SST (Working on road & Material Handling Safety)	15-07-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)	
38	SST (Working on road & Material Handling Safety)	15-07-2022	Kuchaman	Anurag Bagherwal	22 (Workmen)	
39	OT (CPR Training & Emergency Medical Training)	15-07-2022	Kuchaman	Anurag Bagherwal	21 (Workmen)	
40	MOCK DRILL (ELECTROUTION)	15-07-2022	Kuchaman	Anurag Bagherwal	21 (Workmen)	
41	FAT (First Aid Training)	16-07-2022	Kuchaman	Anurag Bagherwal	7 (Workmen)	
42	SST (Working on road & Material Handling Safety)	18-07-2022	Kuchaman	Anurag Bagherwal	9 (Workmen)	
43	CWT (Excavation & Electrical Safety)	19-07-2022	Kuchaman	Anurag Bagherwal	8 (Workmen)	
44	FAT (First Aid Training)	19-07-2022	Kuchaman	Anurag Bagherwal	8 (Workmen)	
45	SST (Working on road & Material Handling Safety)	21-07-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)	
46	FAT (First Aid Training)	21-07-2022	Kuchaman	Anurag Bagherwal	8 (Workmen)	
47	MOCK DRILL (HIT BY VEHICLE)	21-07-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)	
48	CWT (Excavation & Electrical Safety)	27-07-2022	Kuchaman	Anurag Bagherwal	7 (Workmen)	
49	SST (Working on road & Material Handling Safety)	01-08-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)	
50	CWT (Excavation & Electrical Safety)	02-08-2022	Kuchaman	Anurag Bagherwal	7 (Workmen)	
51	FAT (First Aid Training)	02-08-2022	Kuchaman	Anurag Bagherwal	7 (Workmen)	
52	CWT (Excavation & Electrical Safety)	06-08-2022	Kuchaman	Anurag Bagherwal	18 (Workmen)	
53	FAT (First Aid Training)	06-08-2022	Kuchaman	Anurag Bagherwal	17 (Workmen)	
54	SST (Working on road & Material Handling Safety)	06-08-2022	Kuchaman	Anurag Bagherwal	6 (Workmen)	
55	FAT (First Aid Training)	09-08-2022	Kuchaman	Anurag Bagherwal	7 (Workmen)	
56	CWT (Excavation & Electrical Safety)	09-08-2022	Kuchaman	Anurag Bagherwal	8 (Workmen)	
57	CWT (Excavation & Electrical Safety)	10-08-2022	Kuchaman	Anurag Bagherwal	8 (Workmen)	
58	FAT (First Aid Training)	10-08-2022	Kuchaman	Anurag Bagherwal	8 (Workmen)	
59	SST (Working on road & Material Handling Safety)	10-08-2022	Kuchaman	Anurag Bagherwal	15 (Workmen)	
60	SST (Working on road & Material Handling Safety)	13-08-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)	
61	CWT (Excavation & Electrical Safety)	17-08-2022	Kuchaman	Anurag Bagherwal	23 (Workmen)	
62	MOCK DRILL (HIT BY VEHICLE)	18-08-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)	

63	FAT (First Aid Training)	20-08-2022	Kuchaman	Anurag Bagherwal	30 (Workmen)	
64	CWT (Excavation & Electrical Safety)	22-08-2022	Kuchaman	Anurag Bagherwal	7 (Workmen)	
65	CWT (Excavation & Electrical Safety)	23-08-2022	Kuchaman	Anurag Bagherwal	12 (Workmen)	
66	MOCK DRILL (ELECTROUTION)	23-08-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)	
67	CWT (Excavation & Electrical Safety)	24-08-2022	Kuchaman	Anurag Bagherwal	10 (Workmen)	
68	CWT (Excavation & Electrical Safety)	01-09-2022	Kuchaman	Anurag Bagherwal	22 (Workmen)	
69	FAT (First Aid Training)	01-09-2022	Kuchaman	Anurag Bagherwal	16 (Workmen)	
70	CWT (Excavation & Electrical Safety)	02-09-2022	Kuchaman	Anurag Bagherwal	7 (Workmen)	
71	CWT (Excavation & Electrical Safety)	06-09-2022	Kuchaman	Anurag Bagherwal	18 (Workmen)	
72	FAT (First Aid Training)	06-09-2022	Kuchaman	Anurag Bagherwal	6 (Workmen)	
73	CWT (Excavation & Electrical Safety)	07-09-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)	
74	FAT (First Aid Training)	08-09-2022	Kuchaman	Anurag Bagherwal	4 (Workmen)	
75	CWT (Excavation & Electrical Safety)	08-09-2022	Kuchaman	Anurag Bagherwal	13 (Workmen)	
76	MOCK DRILL (HIT BY VEHICLE)	10-09-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)	
77	MOCK DRILL (ELECTROUTION)	19-09-2022	Kuchaman	Anurag Bagherwal	4 (Workmen)	
78	CWT (Excavation & Electrical Safety)	19-09-2022	Kuchaman	Anurag Bagherwal	19 (Workmen)	
79	FAT (First Aid Training)	19-09-2022	Kuchaman	Anurag Bagherwal	8 (Workmen)	
80	CWT (Excavation & Electrical Safety)	19-09-2022	Kuchaman	Anurag Bagherwal	6 (Workmen)	
81	SST (Working on road & Material Handling Safety)	20-09-2022	Kuchaman	Anurag Bagherwal	6 (Workmen)	
82	CWT (Excavation & Electrical Safety)	21-09-2022	Kuchaman	Anurag Bagherwal	13 (Workmen)	
83	CWT (Excavation & Electrical Safety)	23-09-2022	Kuchaman	Anurag Bagherwal	21 (Workmen)	

Khetri town

S.No.	Training name	Date of Activity	Location	Trainer	Total Participants	Remarks
1	Excavation Safety Training	06-04-2022	ZONE-04	Raj Kapoor	8	
2	Excavation Safety Training	16-04-2022	ZONE-03	Raj Kapoor	4	
3	Excavation Safety Training	28-04-2022	ZONE-04	Raj Kapoor	5	
4	Excavation Safety Training	09-05-2022	ZONE-04	Raj Kapoor	7	
5	Excavation Safety Training	19-05-2022	ZONE-03	Raj Kapoor	3	
6	Excavation Safety Training	27-05-2022	ZONE-04	Raj Kapoor	5	
7	Excavation Safety Training	05-06-2022	Zone-02	Raj Kapoor	3	
8	Excavation Safety Training	18-06-2022	Zone-04	Raj Kapoor	5	
9	Excavation Safety Training	25-06-2022	Zone-03	Raj Kapoor	3	
10	Excavation Safety Training	09-07-2022	ZONE-02	Raj Kapoor	7	
11	Excavation Safety Training	16-07-2022	ZONE-02	Raj Kapoor	5	
12	Excavation Safety Training	29-07-2022	ZONE-04	Raj Kapoor	5	
13	Excavation Safety Training	09-08-2022	ZONE-01	Raj Kapoor	7	
14	Excavation Safety Training	23-08-2022	ZONE-04	Raj Kapoor	5	
15	Excavation Safety Training	30-08-2022	ZONE-05	Raj Kapoor	5	
16	Excavation Safety Training	09-07-2022	ZONE-02	Raj Kapoor	7	
17	Excavation Safety Training	16-07-2022	ZONE-02	Raj Kapoor	5	
18	Excavation Safety Training	29-07-2022	ZONE-04	Raj Kapoor	5	
19	Excavation Safety Training	09-08-2022	ZONE-01	Raj Kapoor	7	
20	Excavation Safety Training	23-08-2022	ZONE-04	Raj Kapoor	5	
21	Excavation Safety Training	30-08-2022	ZONE-05	Raj Kapoor	5	
22	Excavation Safety Training	08-09-2022	Zone-02	Raj Kapoor	3	
23	Excavation Safety Training	19-09-2022	Zone-05	Raj Kapoor	5	
24	Excavation Safety Training	27-09-2022	Zone-03	Raj Kapoor	3	

Abu Road Town						
S. No.	Activities done	Date	Location	Trainer	No. of participants	Remarks
1	SST	1-Apr-22	Abu Road	Monuj Saikia	6	
2	SST	1-Apr-22	Abu Road	Monuj Saikia	5	
3	CWT	4-Apr-22	Abu Road	Monuj Saikia	9	
4	SST	5-Apr-22	Abu Road	Monuj Saikia	13	
5	CWT	6-Apr-22	Abu Road	Monuj Saikia	14	
6	SST	8-Apr-22	Abu Road	Monuj Saikia	6	
7	SST	11-Apr-22	Abu Road	Monuj Saikia	10	
8	EHS Alert	15-Apr-22	Abu Road	Monuj Saikia	5	
9	SST	18-Apr-22	Abu Road	Monuj Saikia	6	
10	EHS Alert	18-Apr-22	Abu Road	Monuj Saikia	6	
11	EHS Alert	20-Apr-22	Abu Road	Monuj Saikia	9	
12	EHS Alert	20-Apr-22	Abu Road	Monuj Saikia	5	
13	EHS Alert	23-Apr-22	Abu Road	Monuj Saikia	10	
14	Others	25-Apr-22	Abu Road	Monuj Saikia	6	
15	EHS Alert	25-Apr-22	Abu Road	Monuj Saikia	8	
16	SST	27-Apr-22	Abu Road	Monuj Saikia	5	
17	EHS Alert	4-May-22	Abu Road	Monuj Saikia	4	
18	EHS Alert	4-May-22	Abu Road	Monuj Saikia	7	
19	SST	5-May-22	Abu Road	Monuj Saikia	7	
20	EHS Alert	5-May-22	Abu Road	Monuj Saikia	7	
21	CWT	5-May-22	Abu Road	Monuj Saikia	13	
22	SST	7-May-22	Abu Road	Monuj Saikia	7	
23	Others	7-May-22	Abu Road	Monuj Saikia	5	
24	CWT	7-May-22	Abu Road	Monuj Saikia	6	
25	CWT	7-May-22	Abu Road	Monuj Saikia	11	
26	SST	9-May-22	Abu Road	Monuj Saikia	5	
27	SST	10-May-22	Abu Road	Monuj Saikia	6	
28	EHS Alert	10-May-22	Abu Road	Monuj Saikia	7	
29	SST	11-May-22	Abu Road	Monuj Saikia	9	
30	SST	11-May-22	Abu Road	Monuj Saikia	5	
31	EHS Alert	11-May-22	Abu Road	Monuj Saikia	25	
32	SST	12-May-22	Abu Road	Monuj Saikia	7	
33	Others	12-May-22	Abu Road	Monuj Saikia	7	
34	CWT	15-May-22	Abu Road	Monuj Saikia	15	
35	EHS Alert	16-May-22	Abu Road	Monuj Saikia	6	
36	SST	16-May-22	Abu Road	Monuj Saikia	5	
37	EHS Alert	18-May-22	Abu Road	Monuj Saikia	6	
38	CWT	19-May-22	Abu Road	Monuj Saikia	5	
39	EHS Alert	20-May-22	Abu Road	Monuj Saikia	6	
40	SST	30-May-22	Abu Road	Monuj Saikia	11	
41	EHS Alert	3-Jun-22	Abu Road	Monuj Saikia	5	
42	EHS Alert	3-Jun-22	Abu Road	Monuj Saikia	6	
43	EHS Alert	4-Jun-22	Abu Road	Monuj Saikia	8	
44	Others	6-Jun-22	Abu Road	Monuj Saikia	5	
45	EHS Alert	6-Jun-22	Abu Road	Monuj Saikia	5	
46	EHS Alert	6-Jun-22	Abu Road	Monuj Saikia	6	
47	CWT	6-Jun-22	Abu Road	Monuj Saikia	9	
48	SST	7-Jun-22	Abu Road	Monuj Saikia	5	
49	SST	8-Jun-22	Abu Road	Monuj Saikia	8	
50	EHS Alert	9-Jun-22	Abu Road	Monuj Saikia	5	
51	CWT	9-Jun-22	Abu Road	Monuj Saikia	7	
52	Others	10-Jun-22	Abu Road	Monuj Saikia	10	

53	CWT	10-Jun-22	Abu Road	Monuj Saikia	5	
54	CWT	13-Jun-22	Abu Road	Monuj Saikia	11	
55	CWT	13-Jun-22	Abu Road	Monuj Saikia	8	
56	SST	14-Jun-22	Abu Road	Monuj Saikia	5	
57	CWT	15-Jun-22	Abu Road	Monuj Saikia	6	
58	Others	17-Jun-22	Abu Road	Monuj Saikia	6	
59	SST	21-Jun-22	Abu Road	Monuj Saikia	6	
60	SST	1-Jul-22	Abu Road	Monuj Saikia	5	
61	SST	1-Jul-22	Abu Road	Monuj Saikia	7	
62	CWT	2-Jul-22	Abu Road	Monuj Saikia	11	
63	EHS Alert	4-Jul-22	Abu Road	Monuj Saikia	5	
64	CWT	4-Jul-22	Abu Road	Monuj Saikia	7	
65	CWT	11-Jul-22	Abu Road	Monuj Saikia	7	
66	EHS Alert	13-Jul-22	Abu Road	Monuj Saikia	5	
67	EHS Alert	14-Jul-22	Abu Road	Monuj Saikia	5	
68	SST	15-Jul-22	Abu Road	Monuj Saikia	5	
69	Others	15-Jul-22	Abu Road	Monuj Saikia	5	
70	SST	16-Jul-22	Abu Road	Monuj Saikia	5	
71	Others	19-Jul-22	Abu Road	Monuj Saikia	4	
72	SST	23-Jul-22	Abu Road	Monuj Saikia	5	
73	Others	25-Jul-22	Abu Road	Monuj Saikia	5	
74	CWT	25-Jul-22	Abu Road	Monuj Saikia	13	
75	SST	30-Jul-22	Abu Road	Monuj Saikia	7	
76	CWT	4-Aug-22	Abu Road	Monuj Saikia	8	
77	OT	4-Aug-22	Abu Road	Monuj Saikia	5	
78	SST	4-Aug-22	Abu Road	Monuj Saikia	4	
79	SST	6-Aug-22	Abu Road	Monuj Saikia	7	
80	EHS ALERT	10-Aug-22	Abu Road	Monuj Saikia	10	
81	EHS ALERT	10-Aug-22	Abu Road	Monuj Saikia	5	
82	SST	16-Aug-22	Abu Road	Monuj Saikia	6	
83	CWT	18-Aug-22	Abu Road	Monuj Saikia	11	
84	OT	18-Aug-22	Abu Road	Monuj Saikia	7	
85	OT	19-Aug-22	Abu Road	Monuj Saikia	5	
86	SST	19-Aug-22	Abu Road	Monuj Saikia	5	
87	SST	27-Aug-22	Abu Road	Monuj Saikia	4	
88	CWT	27-Aug-22	Abu Road	Monuj Saikia	5	
89	other-Internal	27-Sep-22	Abu Road	Monuj Saikia	24	
90	SST	27-Sep-22	Abu Road	Monuj Saikia	5	
91	other-Internal	27-Sep-22	Abu Road	Monuj Saikia	24	
92	SST	27-Sep-22	Abu Road	Monuj Saikia	5	
93	EHS alert	27-Sep-22	Abu Road	Monuj Saikia	5	
94	EHS alert	27-Sep-22	Abu Road	Monuj Saikia	4	
95	SST	27-Sep-22	Abu Road	Monuj Saikia	6	
96	CWT	27-Sep-22	Abu Road	Monuj Saikia	21	
97	SST	27-Sep-22	Abu Road	Monuj Saikia	8	
98	SST	27-Sep-22	Abu Road	Monuj Saikia	12	
99	other-Internal	27-Sep-22	Abu Road	Monuj Saikia	10	
100	SST	27-Sep-22	Abu Road	Monuj Saikia	10	

Fatehpur Town

S. No.	Activities done	Date	Location	Trainer	No. of participants	Remarks
1	Road safety	09.05.2022	Site	Vinayak Dev	8	
2	HIV/AIDS Awareness Training	09.05.2022	Site	Vinayak Dev	20	
3	Excavation Safety	13.05.2022	Site	Vinayak Dev	10	
4	Site Specific Training (SST)	13.05.2022	Site	Vinayak Dev	5	
5	Site Specific Training (SST)	16.05.2022	Site	Vinayak Dev	7	
6	Site Specific Training (SST)	17.05.2022	Site	Vinayak Dev	8	
7	EHS alert training	18.05.2022	Site	Vinayak Dev	6	
8	Site specific training (SST)	18.05.2022	Site	Vinayak Dev	17	
9	Electrical Safety Training	18.05.2022	WMC	Vinayak Dev	6	
10	Site Specific Training (SST)	19.05.2022	WMC	Vinayak Dev	11	
11	EHS Alert Training	20.05.2022	Site	Vinayak Dev	8	
12	Excavation Safety Training	21.05.2022	Site	Vinayak Dev	7	
13	Defensive Training	26.05.2022	Site	Vinayak Dev	7	
14	Excavation Safety Training	26.05.2022	WMC	Vinayak Dev	13	
15	Induction	04.06.2022	Site	Vinayak Dev	7	
16	Induction	05.06.2022	WMC	Vinayak Dev	11	
17	Induction	10.06.2022	Site	Vinayak Dev	8	
18	Mock drill	13.06.2022	WMC	Vinayak Dev	11	
19	Induction	14.06.2022	WMC	Vinayak Dev	6	
20	Induction	15.06.2022	WMC	Vinayak Dev	7	
21	Site Specific Training (SST)	15.06.2022	WMC	Vinayak Dev	14	
22	CWT	17.06.2022	Site	Vinayak Dev	8	
23	Induction	18.06.2022	Site	Vinayak Dev	7	
24	CWT	21.06.2022	Site	Vinayak Dev	10	
25	Induction	21.06.2022	Site	Vinayak Dev	8	
26	Site Specific Training (SST)	21.06.2022	Site	Vinayak Dev	11	
27	Site Specific Training (SST)	21.06.2022	Site	Vinayak Dev	9	
28	Defensive Training	02.07.2022	Site	Vinayak Dev	7	
29	EHS Alert Training	02.07.2022	WMC	Vinayak Dev	13	
30	Site Specific Training (SST)	02.07.2022	WMC	Vinayak Dev	13	
31	Site Specific Training (SST)	04.07.2022	WMC	Vinayak Dev	6	
32	Electrical Safety Training	05.07.2022	WMC	Vinayak Dev	10	
33	EHS Alert Training	05.07.2022	WMC	Vinayak Dev	8	
34	EHS Alert Training	07.07.2022	WMC	Vinayak Dev	5	
35	Site Specific Training (SST)	16.07.2022	Site	Vinayak Dev	18	
36	Induction	16.07.2022	WMC	Vinayak Dev	3	
37	Site Specific Training (SST)	16.07.2022	Site	Vinayak Dev	5	
38	Site Specific Training (SST)	19.07.2022	WMC	Vinayak Dev	16	
39	Site Specific Training (SST)	19.07.2022	WMC	Vinayak Dev	10	
40	Mock drill	20.07.2022	WMC	Vinayak Dev	4	
41	Site Specific Training (SST)	20.07.2022	WMC	Vinayak Dev	10	
42	Induction	20.07.2022	WMC	Vinayak Dev	5	
43	Site Specific Training (SST)	21.07.2022	WMC	Vinayak Dev	12	
44	Induction	23.07.2022	WMC	Vinayak Dev	5	
45	Site Specific Training (SST)	25.07.2022	WMC	Vinayak Dev	9	
46	Induction	26.07.2022	WMC	Vinayak Dev	6	
47	Induction	02.09.2022	Site	Vinayak Dev	8	
48	CWT	06.09.2022	Site	Vinayak Dev	11	
49	Site Specific Training (SST)	09.09.2022	Site	Vinayak Dev	9	
50	Induction	13.09.2022	Site	Vinayak Dev	9	
51	Induction	13.09.2022	WMC	Vinayak Dev	10	
52	Induction	16.09.2022	WMC	Vinayak Dev	11	

53	CWT	21.09.2022	WMC	Vinayak Dev	7	
54	Machine Inspection & Safety Precautions	22.09.2022	WMC	Vinayak Dev	11	
55	Importance of PPE & Electrical Safety	22.09.2022	WMC	Vinayak Dev	15	
56	Importance of PPE & Electrical Safety	23.09.2022	WMC	Vinayak Dev	10	
57	P&M and Safety Training	28.09.2022	WMC	Vinayak Dev	1	

Sirohi Town

S. No.	Activities done	Date	Location	Trainer	No. of participants
1	Excavation safety	01-04-2022	Sirohi	Satish /Rinku	30
2	Excavation safety	04-04-2022	Sirohi	Satish /Rinku	07
3	work at height	06-04-2022	Sirohi	Satish /Rinku	17
4	Manually material handling	07-04-2022	Sirohi	Satish /Rinku	13
5	Safety in HDD operation	09-04-2022	Sirohi	Satish/Charnjee	4
6	Excavation safety	11-04-2022	Sirohi	Satish/Yogesh	15
7	Excavation safety	12-04-2022	Sirohi	Satish	05
8	Regarding of heatstroke	14-04-2022	Sirohi	Satish /Charnjee	12
9	Safety, slip/trip hazard safety,	27-04-2022	Sirohi	Satish /Charnjee	10
10	Excavation safety	29-04-2022	Sirohi	Satish /Rinku	12
11	Work at height	30-04-2022	Sirohi	Satish /Rinku	10
12.	Material handling safety	01-05-2022	Sirohi	Satish/Charnjeet	50
13	Work at height safety	04-05-2022	Sirohi	Satish /Rinku	9
14	Excavation safety	05-05-2022	Sirohi	Satish/Charnjee	11
15	Regarding of heatstroke	09-05-2022	Sirohi	Satish/Yogesh	04
16	Excavation safety	10-05-2022	Sirohi	Satish	6
17	Safety, slip/trip hazard safety,	10-05-2022	Sirohi	Satish	10
18	Work at height	20-05-2022	Sirohi	Satish/Charnjee	07
19	Manually material handling	21-05-2022	Sirohi	Satish/Charnjee	13
20	Safety in HDD operation	25-05-2022	Sirohi	Satish/Yogesh	22
21	Excavation safety	26-05-2022	Sirohi	Satish/Charnjee	18
22	HDD trenchless SOP training	31-05-2022	Sirohi	Satish/Yogesh	13
23	Work at height safety	04-06-2022	Sirohi	Satish /Rinku	16
24	Excavation safety, Road safety,	08-06-2022	Sirohi	Satish /Rinku	08
25	Material handling on height, scaffolding	11-06-2022	Sirohi	Satish /Charnjee	15
26	Work at height	15-06-2022	Sirohi	Satish/Yogesh	12
27	SOP sewerage pipe laying,	17-06-2022	Sirohi	Satish /Rinku	6

Laxmangarh Town

S. No.	Activities done	Date	Location	Trainer	No. of participants	Remarks
1	Induction Training	09.05.2022	Site	Vinayak Dev	6	
2	Contractor Workmen Training (CWT)	09.05.2022	WMC	Vinayak Dev	6	
3	Induction Training	13.05.2022	WMC	Vinayak Dev	5	
4	Contractor Workmen Training (CWT)	13.05.2022	WMC	Vinayak Dev	5	
5	Induction Training	16.05.2022	WMC	Vinayak Dev	4	
6	Site Specific Training (SST)	17.05.2022	WMC	Vinayak Dev	9	
7	Site Specific Training (SST)	18.05.2022	WMC	Vinayak Dev	7	
8	Induction Training	18.05.2022	Site	Vinayak Dev	8	
9	Contractor Workmen Training (CWT)	18.05.2022	WMC	Vinayak Dev	8	
10	Site Specific Training (SST)	19.05.2022	WMC	Vinayak Dev	5	
11	Induction Training	20.05.2022	Site	Vinayak Dev	2	
12	Induction Training	21.05.2022	WMC	Vinayak Dev	4	
13	Induction Training	26.05.2022	WMC	Vinayak Dev	13	
14	Contractor Workmen Training (CWT)	26.05.2022	WMC	Vinayak Dev	13	
15	Site Specific Training (SST)	04.06.2022	WMC	Vinayak Dev	6	
16	EHS Alert Training	05.06.2022	Site	Vinayak Dev	4	
17	Site Specific Training (SST)	10.06.2022	WMC	Vinayak Dev	4	
18	Induction Training	13.06.2022	WMC	Vinayak Dev	13	
19	Induction Training	14.06.2022	WMC	Vinayak Dev	2	
20	Induction Training	15.06.2022	Site	Vinayak Dev	2	
21	Site Specific Training (SST)	15.06.2022	WMC	Vinayak Dev	4	
22	EHS Alert Training	17.06.2022	Site	Vinayak Dev	3	
23	EHS Alert Training	18.06.2022	WMC	Vinayak Dev	6	
24	Contractor Workmen Training (CWT)	21.06.2022	WMC	Vinayak Dev	1	
25	Contractor Workmen Training (CWT)	21.06.2022	WMC	Vinayak Dev	5	
26	EHS Alert Training	21.06.2022	Site	Vinayak Dev	2	
27	Induction Training	21.06.2022	Site	Vinayak Dev	1	
28	Induction Training	02.07.2022	WMC	Vinayak Dev	5	
29	Contractor Workmen Training (CWT)	02.07.2022	WMC	Vinayak Dev	3	
30	Site Specific Training (SST)	04.07.2022	Site	Vinayak Dev	5	
31	Induction Training	05.07.2022	WMC	Vinayak Dev	10	
32	Contractor Workmen Training (CWT)	05.07.2022	WMC	Vinayak Dev	10	
33	Site Specific Training (SST)	07.07.2022	Site	Vinayak Dev	4	
34	Induction Training	16.07.2022	WMC	Vinayak Dev	2	
35	Contractor Workmen Training (CWT)	16.07.2022	WMC	Vinayak Dev	2	
36	EHS Alert Training	16.07.2022	Site	Vinayak Dev	5	
37	Induction Training	19.07.2022	WMC	Vinayak Dev	5	
38	Contractor Workmen Training (CWT)	19.07.2022	WMC	Vinayak Dev	08	
39	Induction Training	20.07.2022	WMC	Vinayak Dev	1	
40	Contractor Workmen Training (CWT)	20.07.2022	WMC	Vinayak Dev	1	
41	Mock drill	20.07.2022	Site	Vinayak Dev	5	
42	Site Specific Training (SST)	21.07.2022	Site	Vinayak Dev	4	
43	EHS Alert Training	23.07.2022	Site	Vinayak Dev	2	
44	Site Specific Training (SST)	25.07.2022	Site	Vinayak Dev	5	
45	EHS Alert Training	26.07.2022	Site	Vinayak Dev	3	
46	Site Specific Training (SST)	02.09.2022	Site	Vinayak Dev	6	
47	Site Specific Training (SST)	06.09.2022	Site	Vinayak Dev	5	
48	EHS Alert training	09.09.2022	Site	Vinayak Dev	4	

49	Induction Training	13.09.2022	WMC	Vinayak Dev	3	
50	Contractor Workmen Training (CWT)	13.09.2022	WMC	Vinayak Dev	3	
51	Mock drill	16.09.2022	Site	Vinayak Dev	4	
52	Site Specific Training (SST)	21.09.2022	Site	Vinayak Dev	2	
53	Induction Training	22.09.2022	WMC	Vinayak Dev	1	
54	Contractor Workmen Training (CWT)	22.09.2022	WMC	Vinayak Dev	1	
55	EHS Alert training	23.09.2022	Site	Vinayak Dev	5	
56	Induction Training	28.09.2022	WMC	Vinayak Dev	3	
57	Contractor Workmen Training (CWT)	28.09.2022	WMC	Vinayak Dev	3	

Banswara Town

S. No.	Activities done	Date	Location	Trainer	No. of participants	Remarks
1	Height Work Safety	11-04-2022	WTP AEn Campus	(Md Faizal)	10	
2	Excavation Safety	13-04-2022	STP Udaipur Road	(Md Faizal)	20	
3	Road Safety	10-04-2022	Madar Colony	(Md Faizal)	20	
4	Labour Meeting	26-04-2022	Nayi Awadi	Sujit Sharan & Md Faizal	35	
5	House Keeping	Regular At Site	All Work Site	(Md Faizal)	200	
6	Loading Unloading Safety	18-05-2022	STP Udaipur Road	(Md Faizal)	10	
7	Manual Handling Safety	30-05-2022	Najmi Bagh , Nayi Awadi	(Md Faizal)	25	
8	House Keeping	Regular At Site	All Work Site	(Md Faizal)	180	
9	Tobacco Prohibition Day	31-05-2022	Madar Colony	Sujit Sharan & Md Faizal	20	
10	Road Safety	15-05-2022	Rajtalab Colony	(Md Faizal)	15	
11	General Safety Rule	10-06-2022	Bahubali Colony	(Md Faizal)	10	
12	House Keeping	Regular At Site	All Work Site	(Md Faizal)	150	
13	Excavation Safety	25-06-2022	STP, Udaipur Road	(Md Faizal)	15	
14	Labour Meeting	21-06-2022	Madar Colony	(Md Faizal)	30	
15	General Safety Rule	30-08-2022	Khandu Colony	(Md Faizal)	15	
16	Height Work Safety	19-08-2022	STP Udaipur Road	(Md Faizal)	10	
17	House Keeping	Regular At Site	All Work Site	(Md Faizal)	150	
18	Road Safety	22-08-2022	Muslim Colony	(Md Faizal)	25	
19	Labour Meeting	28-08-2022	Vidyut Nagar	Sujit Sharan (Md Faizal)	40	
20	House Keeping	Regular At Site	All Work Site	(Md Faizal)	150	
21	Labour Meeting	06-09-2022	Vidyut Nagar	Viral Raj (Md Faizal)	40	
22	House Keeping	Regular At Site	All Work Site	(Md Faizal)	150	
23	Labour Meeting	11-10-2022		Viral Raj (Md Faizal)	40	

Pratapgarh Town

S. No.	Activities done	Date	Location	Trainer	No. of participants	Remarks
1	Electrical safety	05.04.2022	Bagwas	Ashutosh	08	
2	Material handling safety	10.04.2022	Nakoda Nagar	Ashutosh	10	
3	House keeping	13.04.2022	Nai Abaddi	Ashutosh	12	
4	Electrical safety	16.04.2022	Areapati	Ashutosh	08	
5	Road safety	20.04.2022	Talai Mohalla	Ashutosh	06	
6	House keeping	24.04.2022	STP	Ashutosh	30	
7	Electrical safety	26.04.2022	SPS	Ashutosh	15	
8	Excavation Safety	27.04.2022	Housing Board	Ashutosh	08	
9	Loading unloading safety	28.05.2022	Gopal Ganj	Ashutosh	10	
10	Electrical safety	03.05.2022	Ahir Mohalla	Ashutosh	08	
11	House keeping	07.05.2022	Indra Colony	Ashutosh	10	
12.	Excavation Safety	09.05.2022	Tilak Nagr	Ashutosh	08	
13	Loading unloading safety	15.05.2022	Bagwas	Ashutosh	07	
14	Work at height	18.05.2022	SPS	Ashutosh	15	
15.	Material handling	20.05.2022	STP	Ashutosh	30	
16	House keeping	22.05.2022	Housing Board	Ashutosh	08	
17	Road safety	24.05.2022	Tali Mohalla	Ashutosh	12	
18	Loading unloading safety	25.05.2022	Tilak Nagr	Ashutosh	08	
19	Electrical safety	26.05.2022	Nakoda Nagar	Ashutosh	12	
20	Material handling	28.05.2022	Indra Colony	Ashutosh	08	
21	Electrical safety	29.05.2022	Gopal Ganj	Ashutosh	10	
22	Soil collapse	31.05.2022	Bada Bagh	Ashutosh	08	
23	Ppp'ES	03.06.2022	Nakoda Nagar	Ashutosh	12	
24	Loading unloading safety	07.06.2022	Bagaws	Ashutosh	08	
25	Work at height	10.06.2022	STP	Ashutosh	25	
26	Ladder Safety	15.06.2022	SPS	Ashutosh	16	
27	Excavation Safety	17.06.2022	Pragati Nagar	Ashutosh	08	
28	House keeping	20.06.2022	Nai Awaddi	Ashutosh	10	
29	HIV/AIDS Training	24.06.2022	STP	Ashutosh	40	
30	Electrical safety	26.06.2022	SPS	Ashutosh	08	
31	Electrical safety	03.07.2022	Nai Awaddi	Ashutosh	05	
32	Material handling safety	07.07.2022	Bagwas	Ashutosh	04	
33	House keeping	13.07.2022	Kila Parisar	Ashutosh	08	
34	Electrical safety	17.07.2022	Areapati	Ashutosh	05	
35	Road safety	21.07.2022	Nai Awaddi	Ashutosh	08	
36	House keeping	25.07.2022	STP	Ashutosh	40	
37	Electrical safety	27.07.2022	SPS	Ashutosh	10	
38	Excavation Safety	30.07.2022	Krishi Mandi	Ashutosh	05	
39	Loading unloading safety	02.08.2022	Gautham Nagar	Ashutosh	05	
40	Electrical safety	05.08.2022	Kila Parisar	Ashutosh	06	
41	House keeping	08.08.2022	Bagwas	Ashutosh	08	

42	Excavation Safety	11.08.2022	Nakoda Nagar	Ashutosh	06	
43	Loading unloading safety	15.08.2022	Bagwas	Ashutosh	08	
44	Work at height	19.08.2022	SPS	Ashutosh	12	
45	Material handling	21.08.2022	STP	Ashutosh	50	
46	House keeping	25.08.2022	Nai Awaddi	Ashutosh	05	
47	Road safety	27.08.2022	Gautham Nagar	Ashutosh	05	
48	Loading unloading safety	29.08.2022	Nakoda Nagar	Ashutosh	10	
49	Electrical safety	31.08.2022	Devgarh Darwaja	Ashutosh	06	
50	Material handling	31.08.2022	Mandsour Road	Ashutosh	05	
51	Electrical safety	05.09.2022	Badabagh	Ashutosh	06	
52	Soil collapse	07.09.2022	Areapati	Ashutosh	07	
53	PPE'S	08.09.2022	Bagwas	Ashutosh	05	
54	Loading unloading safety	10.09.2022	Nakoda Nagar	Ashutosh	05	
54	Work at height	12.09.2022	STP	Ashutosh	45	
55	Ladder Safety	15.09.2022	SPS	Ashutosh	17	
56	Excavation Safety	17.09.2022	Nai Awaddi	Ashutosh	08	
56	House keeping	21.09.2022	Bagwas	Ashutosh	05	
57	HIV/AIDS Training	23.09.2022	STP	Ashutosh	35	
58	Electrical safety	26.09.2022	SPS	Ashutosh	10	

Ratangarh Town

S. No.	Activities done	Date	Location	Trainer	No. of participants
Ratangarh Town					
1	Health Check-Up Camp	03.07.2022	RGM Hospital	Mustafa	12
2	Operator Skill Medical Test	03.07.2022	RGM Hospital	Mustafa	05
3	Health Check-Up Camp	05.07.2022	RGM Hospital	Mustafa	08
4	Health Check-Up Camp	06.07.2022	RGM Hospital	Mustafa	12
5	Health Check-Up Camp	07.07.2022	RGM Hospital	Mustafa	09
6	Cook Skill Medical Test	15.07.2022	RGM Hospital	Mustafa	01
7	Housekeeping Camp	17.07.2022	Railway Phatak	Mustafa	04
8	Mock drill Heat Strokes	18.07.2022	STP 3.8 MLD	Mustafa	15
9	Project Manager EHS Walkthrough	03.08.2022	STP 3.8 MLD zone 2	Mustafa	04
10	Tree Plantation	04.08.2022	Nagar Palika Land	Mustafa	10
11	Operator Skill Medical Test	07.08.2022	RGM Hospital	Mustafa	05
12	Health Check-Up Camp	12.08.2022	RGM Hospital	Mustafa	14
13	Health Check-Up Camp	14.08.2022	RGM Hospital	Mustafa	08
14	Housekeeping Camp	16.08.2022	Goga Medi	Mustafa	03
15	Health Check-Up Camp	18.08.2022	RGM Hospital	Mustafa	09
16	Mock drill Electrical	22.08.2022	STP 6.1 MLD	Mustafa	16
17	EHS committee Meeting	23.08.2022	L&T Office	Mustafa	15
18	EHS committee Meeting	31.08.2022	L&T Office	Mustafa	25
19	Operator Skill Medical Test	18.09.2022	RGM Hospital	Mustafa	08
20	Health Check-Up Camp	19.09.2022	RGM Hospital	Mustafa	10
22	Health Check-Up Camp	20.09.2022	RGM Hospital	Mustafa	10
23	Health Check-Up Camp	25.09.2022	RGM Hospital	Mustafa	15
24	Housekeeping Camp	25.09.2022	STP 3.8 MLD	Mustafa	07
25	Project Manager EHS Walkthrough	25.09.2022	STP 3.8 MLD zone 2	Mustafa	
26	Project Manager EHS Walkthrough	25.09.2022	STP 3.8 MLD zone 2	Mustafa	04
27	Tree Plantation	25.09.2022	STP 3.8 MLD	Mustafa	10
28	Health Check-Up Camp	26.09.2022	RGM Hospital	Mustafa	12

Sardarshahar Town

S. No.	Activities done	Date	Location	Trainer	No. of participants
1	EHS Induction & COVID Precaution	01.04.2022	Workmen Camp	Rakesh Kumar Sahu	103
2	Contractor Workmen Training	07.04.2022	Sardarshahar	Rakesh Kumar Sahu	17
3	Contractor Workmen Training	21.04.2022	Sardarshahar	Rakesh Kumar Sahu	8
4	Contractor Workmen Training	27.04.2022	Sardarshahar	Rakesh Kumar Sahu	15
5	Other Training EHS Alert No. 44	23.04.2022	Sardarshahar	Rakesh Kumar Sahu	11
6	Other Training EHS Alert No. 45	02.04.2022	Sardarshahar	Rakesh Kumar Sahu	5
7	Other Training EHS Alert No. 46	01.04.2022	Sardarshahar	Rakesh Kumar Sahu	4
8	SITE SPECIFIC TRAINING Fire Safety Training Safe Material Handling - during House Service Connection, Use of COVID safety precaution, Machine guarding and electrical Safety	30.04.2022	Sardarshahar	Rakesh Kumar Sahu	5
9	OTHER TRAINING Maintain hygiene at kitchen premises, Fire Safety Training, Health safety awareness, COVID19 precaution, Dengue precaution	19.04.2022	Sardarshahar	Rakesh Kumar Sahu	5
10	OTHER TRAINING Mock Drill on Heat Stroke	26.04.2022	Sardarshahar	Rakesh Kumar Sahu	9
11	OTHER TRAINING Mock Drill on Heat Stroke	30.04.2022	Sardarshahar	Rakesh Kumar Sahu	7
12	EHS Induction & COVID Precaution	01.05.2022	Sardarshahar	Rakesh Kumar Sahu	106
13	CONTRACTOR WORKMEN TRAINING	25.05.2022	Sardarshahar	Rakesh Kumar Sahu	13
14	OTHER TRAINING EHS Alert No. 38	04.05.2022	Sardarshahar	Rakesh Kumar Sahu	5
15	OTHER TRAINING EHS Alert No. 45	12.05.2022	Sardarshahar	Rakesh Kumar Sahu	7
16	OTHER TRAINING EHS Alert No. 45	07.05.2022	Sardarshahar	Rakesh Kumar Sahu	9
17	SITE SPECIFIC TRAINING PPE	12.05.2022	Sardarshahar	Rakesh Kumar Sahu	10
18	SITE SPECIFIC TRAINING PPE	13.05.2022	Sardarshahar	Rakesh Kumar Sahu	9
19	OTHER TRAINING Mock Drill	30.05.2022	Sardarshahar	Rakesh Kumar Sahu	7
20	OTHER TRAINING Mock Drill	10.05.2022	Sardarshahar	Rakesh Kumar Sahu	8
21	EHS Induction & COVID Precaution	01.06.2022	Sardarshahar	Rakesh Kumar Sahu	36
22	Contractor Workmen Training	11.06.2022	Sardarshahar	Rakesh Kumar Sahu	11
23	Contractor Workmen Training	28.06.2022	Sardarshahar	Rakesh Kumar Sahu	13
24	Site Specific Training COVID	18.06.2022	Sardarshahar	Rakesh Kumar Sahu	10
25	Site Specific Training Electrical Safety	27.06.2022	Sardarshahar	Rakesh Kumar Sahu	9
26	Other Training EHS Alert # 2	17.06.2022	Sardarshahar	Rakesh Kumar Sahu	6
27	Other Training EHS Alert # 1	03.06.2022	Sardarshahar	Rakesh Kumar Sahu	17
28	Other Training EHS Alert # 1	06.06.2022	Sardarshahar	Rakesh Kumar Sahu	12
29	Other Training EHS Alert # 02	22.06.2022	Sardarshahar	Rakesh Kumar Sahu	11
30	Other Training Mock Drill -Hit By Object	11.06.2022	Sardarshahar	Rakesh Kumar Sahu	13
31	Other Training Mock Drill -Soil Collapse	23.06.2022	Sardarshahar	Rakesh Kumar Sahu	7
32	EHS Induction & COVID Precaution	01.07.2022	Sardarshahar	Rakesh Kumar Sahu	84
33	Contractor Workmen Training	02.07.2022	Sardarshahar	Rakesh Kumar Sahu	19
34	Contractor Workmen Training	19.07.2022	Sardarshahar	Rakesh Kumar Sahu	17
35	Contractor Workmen Training	28.07.2022	Sardarshahar	Rakesh Kumar Sahu	16
36	Site Specific Training Basic Electrical Training	20.07.2022	Sardarshahar	Rakesh Kumar Sahu	38
37	Site Specific Training Basic Safety Awareness, COVID-19	28.07.2022	Sardarshahar	Rakesh Kumar Sahu	6
38	Other Training Ehs Alert # 01 & 02(Staff)	04.07.2022	Sardarshahar	Rakesh Kumar Sahu	24

39	Other Training EHS Alert # 41	22.07.2022	Sardarshahar	Rakesh Kumar Sahu	9
40	Other Training EHS Alert # 01	12.07.2022	Sardarshahar	Rakesh Kumar Sahu	12
41	Other Training EHS Alert # 01	12.07.2022	Sardarshahar	Rakesh Kumar Sahu	7
42	Mock Drill-Snake Bite	23.07.2022	Sardarshahar	Rakesh Kumar Sahu	9
43	Mock Drill-Heat Stress	19.07.2022	Sardarshahar	Rakesh Kumar Sahu	11
44	EHS Induction & COVID Precaution	01.08.2022	Sardarshahar	Rakesh Kumar Sahu	48
45	Contractor Workmen Training	30.08.2022	Sardarshahar	Rakesh Kumar Sahu	7
46	Contractor Workmen Training	29.08.2022	Sardarshahar	Rakesh Kumar Sahu	10
47	SITE SPECIFIC TRAINING WORK AT HEIGHT Fire Safety Training, Use of fire Extinguisher & Cleaningness, Housekeeping	18.08.2022	Sardarshahar	Rakesh Kumar Sahu	4
48	Site Specific Training Excavation Safety	31.08.2022	Sardarshahar	Rakesh Kumar Sahu	7
49	Other Training EHS Alert # 03	02.08.2022	Sardarshahar	Rakesh Kumar Sahu	7
50	Other Training EHS Alert # 03	03.08.2022	Sardarshahar	Rakesh Kumar Sahu	19
51	Other Training EHS Alert # 03	06.08.2022	Sardarshahar	Rakesh Kumar Sahu	18
52	Other Training EHS Alert # 03	10.08.2022	Sardarshahar	Rakesh Kumar Sahu	12
53	Other Training Mock Drill on HIT BY OBJECT	29.08.2022	Sardarshahar	Rakesh Kumar Sahu	7
54	Other Training Mock Drill on ELECTROFUSION	27.08.2022	Sardarshahar	Rakesh Kumar Sahu	12
55	EHS Induction & COVID Precaution	01.09.2022	Sardarshahar	Rakesh Kumar Sahu	49
56	Contractor Workmen Training	09.09.2022	Sardarshahar	Rakesh Kumar Sahu	15
57	Contractor Workmen Training	19.09.2022	Sardarshahar	Rakesh Kumar Sahu	12
58	Site Specific Training (Staff)	02.09.2022	Sardarshahar	Rakesh Kumar Sahu	11
59	Site Specific Training-Work At Height	13.09.2022	Sardarshahar	Rakesh Kumar Sahu	12
60	Other Training EHS Alert # 03	06.09.2022	Sardarshahar	Rakesh Kumar Sahu	9
61	Other Training EHS Alert # 06	30.09.2022	Sardarshahar	Rakesh Kumar Sahu	11
62	Other Training EHS Alert # 04	13.09.2022	Sardarshahar	Rakesh Kumar Sahu	19
63	Other Training EHS Alert # 05	30.09.2022	Sardarshahar	Rakesh Kumar Sahu	10
64	Other Training Mock Drill on HIT BY OBJECT	24.09.2022	Sardarshahar	Rakesh Kumar Sahu	10
65	Other Training Mock Drill on Fire Emergency	19.08.2022	Sardarshahar	Rakesh Kumar Sahu	14

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)
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No. F3 (301)(72)/RUIDP/PMU/Env/12.686 - 85

Date: 01.02.2021

Superintending Engineers,
RUIDP, PIU, Ratangarh/ Sirohi/ Kuchaman/ Banswara

Executive Engineer
RUIDP, PIU, Mandawa/ Khetri

Sub: Regarding Safe Operating Procedures (SOP) and COVID-19 Management Plan
 In all project towns under RSTDSP (RUIDP Ph-IV)

In reference to above cited subject, Safe Operating Procedures (SOP) and COVID-19 Management Plan is prepared in response to coronavirus disease (COVID-19) pandemic and being sent to PIU. You are requested to share this plan with contractors and properly monitor the implementation of the provisions of this plan at all work sites, offices and worker's camps.

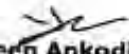

(Dr Hemant Kumar Sharma)
Addl Project Director

No. F3 (301)(72)/RUIDP/PMU/Env/12.686 - 99

Date: 01.02.2021

Copy to following for information and take immediate necessary action-

1. Additional Chief Engineer, RUIDP, Zone-Jaipur/ Jodhpur.
2. Executive Engineer, PIU, Fatehpur/ Laxmangarh/ Ratangarh/ Sardarshahar/ Makrana/ Kuchaman/ 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 2022 to September 2022**

S. No.	Activities done	Date	Location	No. of Participants	Remarks
Kuchaman Town					
1	Thermal screening at the site	On Daily Basis	All locations	N/A	
2	Sanitization activity at the site	On Daily Basis	All locations	N/A	
3	Mask Distribution	Daily Basis	All locations	NA	
4	Dis-infection Activity	Daily Basis	All Locations	NA	
5	Health Check-up Camp	10-05-2022	Kuchaman	6	
6	Health Check-up Camp	12-05-2022	Kuchaman	9	
7	Health Check-up Camp	16-05-2022	Kuchaman	7	
8	Health Check-up Camp	23-05-2022	Kuchaman	5	
9	Health Check-up Camp	25-05-2022	Kuchaman	7	
10	Health Check-up Camp	25-05-2022	Kuchaman	6	
11	Health Check-up Camp	27-05-2022	Kuchaman	6	
12	Health Check-up Camp	28-05-2022	Kuchaman	5	
13	Health Check-up Camp	30-05-2022	Kuchaman	4	
14	Health Check-up Camp	31-05-2022	Kuchaman	5	
15	Health Check-up Camp	02-06-2022	Kuchaman	15	
16	Health Check-up Camp	03-06-2022	Kuchaman	5	
17	Health Check-up Camp	6-06-2022	Kuchaman	5	
18	Health Check-up Camp	7-06-2022	Kuchaman	5	
19	Health Check-up Camp	8-06-2022	Kuchaman	8	
20	Health Check-up Camp	13-06-2022	Kuchaman	3	
21	Health Check-up Camp	15-06-2022	Kuchaman	5	
22	Health Check-up Camp	17-06-2022	Kuchaman	5	
23	Health Check-up Camp	08-07-2022	Kuchaman	12	
24	Health Check-up Camp	09-07-2022	Kuchaman	5	
25	Health Check-up Camp	11-07-2022	Kuchaman	5	
26	Health Check-up Camp	12-07-2022	Kuchaman	4	
27	Health Check-up Camp	20-07-2022	Kuchaman	8	
28	Health Check-up Camp	21-07-2022	Kuchaman	5	
29	Health Check-up Camp	25-07-2022	Kuchaman	8	
30	Health Check-up Camp	02-08-2022	Kuchaman	7	
31	Health Check-up Camp	06-08-2022	Kuchaman	11	
32	Health Check-up Camp	08-08-2022	Kuchaman	10	
33	Health Check-up Camp	09-08-2022	Kuchaman	7	
34	Health Check-up Camp	10-08-2022	Kuchaman	8	
35	Health Check-up Camp	17-08-2022	Kuchaman	12	
36	Health Check-up Camp	22-08-2022	Kuchaman	7	
37	Health Check-up Camp	23-08-2022	Kuchaman	10	
38	Health Check-up Camp	02-08-2022	Kuchaman	7	
39	Health Check-up Camp	06-08-2022	Kuchaman	11	
40	Health Check-up Camp	08-08-2022	Kuchaman	10	
41	Health Check-up Camp	09-08-2022	Kuchaman	7	
42	Health Check-up Camp	10-08-2022	Kuchaman	8	
43	Health Check-up Camp	17-08-2022	Kuchaman	12	
44	Health Check-up Camp	22-08-2022	Kuchaman	7	
45	Health Check-up Camp	23-08-2022	Kuchaman	10	
Didwana Town					
1	Site medical visit 1	02/05/22	Zone 06	5	

2	Site medical visit 2	09/05/22	Zone 05	8	
3	Site medical visit 3	16/05/22	Zone 11	7	
4	Site medical visit 4	23/05/22	Zone 06	6	
5	Site medical visit 1	02/06/22	STP	30	
6	Site medical visit 2	09/06/22	Zone 05	8	
7	Site medical visit 3	16/06/22	SPS	10	
8	Site medical visit 4	23/06/22	Zone 06	6	
9	Site medical visit 1	02/07/22	STP	30	
10	Site medical visit 2	09/07/22	Zone 05	8	
11	Site medical visit 3	16/07/22	SPS	10	
12	Site medical visit 4	23/07/22	Zone 06	6	
13	Site medical visit 1	02/08/22	STP	30	
14	Site medical visit 2	09/08/22	Zone 05	8	
15	Site medical visit 3	16/08/22	SPS	10	
16	Site medical visit 4	23/08/22	Zone 06	6	
17	Site medical visit 1	02/09/22	STP	30	
18	Site medical visit 2	09/09/22	Zone 05	8	
19	Site medical visit 3	16/09/22	SPS	10	
20	Site medical visit 4	23/09/22	Zone 06	6	
21	Mask Distribution	On Daily Basis	All Zones	NA	
22	Thermal screening at the site	On Daily Basis	All Zones	N/A	
23	Sanitization activity at the site	On Daily Basis	All Zones	N/A	
24	Dis-infection Activity	Daily Basis	All Zones	NA	
Makrana Town					
1	Site medical visit 1	09/05/22	Zone 06	5	
2	Site medical visit 2	16/05/22	Zone 05	8	
3	Site medical visit 3	02/05/22	Zone 04	7	
4	Site medical visit 4	09/05/22	Zone 07	6	
5	Site medical visit 1	09/06/22	Zone 06	5	
6	Site medical visit 2	16/06/22	Zone 05	8	
7	Site medical visit 3	02/06/22	Zone 04	7	
8	Site medical visit 4	09/06/22	Zone 07	6	
9	Site medical visit 1	09/07/22	Zone 06	5	
10	Site medical visit 2	16/07/22	Zone 05	8	
11	Site medical visit 3	02/07/22	Zone 04	7	
12	Site medical visit 4	09/07/22	Zone 07	6	
13	Site medical visit 1	09/08/22	Zone 06	5	
14	Site medical visit 2	16/08/22	Zone 05	8	
15	Site medical visit 3	02/08/22	Zone 04	7	
16	Site medical visit 4	09/08/22	Zone 07	6	
17	Site medical visit 1	09/09/22	Zone 06	5	
18	Site medical visit 2	16/09/22	Zone 05	8	
19	Site medical visit 3	02/09/22	Zone 04	7	
20	Site medical visit 4	09/09/22	Zone 07	6	
21	Mask Distribution	On Daily Basis	All Zones	NA	
22	Thermal screening at the site	On Daily Basis	All Zones	N/A	
23	Sanitization activity at the site	On Daily Basis	All Zones	N/A	
24	Dis-infection Activity	Daily Basis	All Zones	NA	
Khetri Town					
1	Thermal screening at the site	On Daily Basis	All locations	N/A	
2	Sanitization activity at the site	On Daily Basis	All locations	N/A	
3	Mask & Sanitizer	04-04-2022	Ward No. 23	5	
4	Sanitizer & Body temperature	13-04-2022	Ward No. 10	4	
5	Mask & Safety Glove	25-04-2022	Ward No. 18	3	

6	Mask & Sanitizer	02-05-2022	Ward No. 24	6	
7	Sanitizer & Body temperature	17-05-2022	Ward No. 18	4	
8	Mask & Safety Glove	24-05-2022	Ward No. 02	3	
9	Mask & Sanitizer	03-06-2022	Ward No. 13	4	
10	Sanitizer & Body temperature	16-06-2022	Ward no. 06	3	
11	Mask & Safety Glove	27-06-2022	Ward no. 02	4	
12	Mask & Sanitizer	05-07-2022	Ward No. 13	4	
13	Sanitizer & Body temperature	14-07-2022	Ward No.23	5	
14	Mask & Safety Glove	27-07-2022	Ward No.03	3	
15	Mask & Sanitizer	04-08-2022	Ward No. 23	3	
16	Sanitizer & Body temperature	17-08-2022	Ward No. 22	4	
17	Mask & Safety Glove	27-08-2022	Ward No. 24	3	
Ladnu Town					
1	Thermal screening at the site	On Daily Basis	All locations	N/A	
2	Sanitization activity at the site	On Daily Basis	All locations	N/A	
3	Regular Disinfection Activity	On Weekly Basis	All Locations	NA	
4	Medical Health Check up	22.06.2022	WMC	32	
5	Blood Donation Camp	09-07-2022	Ladnu Govt Hospital	23 Units	
6	Mask Distribution	Daily Basis	SPS area	NA	
7	Medical Health Check up	03.08.2022 09.08.2022 14.08.2022 17.08.2022 21.08.2022 29.08.2022 30.08.2022	WMC	85	
Mandawa Town					
1	Thermal screening at the site	On Daily Basis	All locations	N/A	
2	Sanitization activity at the site	On Daily Basis	All locations	N/A	
3	Regular Disinfection Activity	On Weekly Basis	All Locations	NA	
4	Mask Distribution	Daily Basis	SPS area	NA	
Abu Road Town					
1	Mask Distribution	Daily Basis	Abu Road	850	
2	Sanitization for office, workmen camps, guest houses and sites	Daily Basis	Abu Road	Maximum	
3	Awareness Training Program for workmen and staff	April 22 to Sept 22	Abu Road	229	
4	Display of Signage for Covid-19 Awareness	Daily Basis	All site areas	Maximum	
5	Separate Isolation facilities for workmen and staffs	Daily Basis	Workmen camps	N/A	
Sirohi Town					
1	Awareness in daily PEP talk	Everyday	All Locations	NA	
2	Awareness and Poster Display	On Weekly Basis	All Locations	NA	
3	Thermal Screening at site	On Daily Basis	All Locations	NA	
4	Regular Disinfection Activity	On Weekly Basis	All Locations	NA	
Sardarshahar Town					
1	Thermal Screening at site	On Daily Basis	All Locations	NA	
2	Regular Disinfection Activity	Twice in a day	All Locations	NA	
3	Hand Sanitization Activity	On Daily Basis	All Locations	-	
4	Mask and Soap Distribution	On Daily Basis	All Locations	NA	
5	Blood Donation Camp	08.08.2022	Sardarshahar	101-unit Blood	

				sample collected	
Fatehpur Town					
1	Regular Disinfection Activity	Weekly Basis	All Locations	NA	
2	Hand Sanitization Activity	Regular Basis	All Locations	NA	
3	COVID-19 Awareness & Precautions Training	18.04.2022 28.04.2022 15.05.2022, 07.06.2022, 18.07.2021, 25.07.2022, 11.08.2022, 23.09.2022	Site & Office Conference Room, Store , STP Rest Area ,SPS 0.6 MLD Rest Area	NA	
4	Thermal Screening	Everyday	All Locations	-	
Ratangarh Town					
1	Office & Labor Camp Disinfection Activity	Weekly Basis	at L&T Office	NA	
2	Hand Sanitization Activity	Regular Basis	All Locations	NA	
3	Thermal Screening Activity	Daily Basis	All Locations	NA	
4	COVID-19 Awareness & Precautions Training	Weekly Basis	-	-	
5	Health Check-Up Camp	01/04/22	RGM HOSPITAL	12	
		02/04/22	RGM HOSPITAL	04	
		05/04/22	RGM HOSPITAL	08	
		25/04/22	RGM HOSPITAL	12	
		07/05/22	RGM HOSPITAL	09	
		12/05/22	RGM HOSPITAL	14	
		14/05/22	RGM HOSPITAL	08	
		18/05/22	RGM HOSPITAL	09	
		19/06/22	RGM HOSPITAL	10	
		20/06/22	RGM HOSPITAL	10	
		25/06/22	RGM HOSPITAL	15	
26/06/22	RGM HOSPITAL	12			
Laxmangarh Town					
1	COVID Training	Regularly	Store Office, Sites	-	
2	Disinfection	Twice in a day	Store Office, Sites	-	
3	Hand Sanitization	On regular basis	Store Office, Sites	-	
4	Thermal Screening	Everyday	Store Office, Sites	-	
5	COVID 19 Test	-		All Staff	
6	COVID 19 vaccination	-		All Staff	
Pratapgarh Town					
1	Thermal Screening & Disinfection activity	On daily basis	At the site	All workers	-
2	Mask and Soap Distribution				-
3	Hand Sanitization	Daily Basis	All Locations	NA	
4	HIV/AIDS Training	24/06/2022	STP	40	
5	Health Check-up camp	24/06/2022	STP	40	
Banswara town					
1	Thermal Screening at site	On Daily Basis	All Locations	NA	
2	Regular Disinfection Activity	On Weekly Basis	All Locations	NA	
3	Hand Sanitization Activity	On Daily Basis	All Locations	-	
4	Mask and Soap Distribution	On Weekly Basis	All Locations	NA	

**Photographs showing COVID-19: Awareness, Prevention and Control
Compliance by Towns during April 2022 to September 2022**

Didwana Town



Mandawa Town**Thermal Screening of workers at site (Mandawa)****Hand Sanitization activity of workers at site Mandawa****Hand Sanitization activity at site (Mandawa)****Thermal Screening at site (Mandawa)****Khetri Town****Labor Meeting about Awareness & Safety of covid-19****Face Mask Distribution**



Environmental Monitoring Report

Project Number: 42267-031
Semestral Report: April 2022 – September 2022
February 2023

India: Rajasthan Secondary Towns Development Sector Project

Part 4 of 4: Appendix 10 (continued) and Appendices 11 - 13

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

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Asian Development Bank



Thermal Screening at site On Daily Basis (Khetri)



Hand Sanitization Activity of workers



Hand Sanitization Activity of workers

Medical Health Checkup of workers

Makrana Town**Glucose distribution to workers at Site****Medical Health Checkup of Workers at Site****Kuchaman Town****Health Checkup camp for site workers****Ladnu town****Medical Check-up camps for Staff & Workmen****COVID awareness Implimentation Posters**

Abu Road Town



Thermal Screening at site On Daily Basis (Abu Road))



Thermal Screening of site workers (Abu Road)

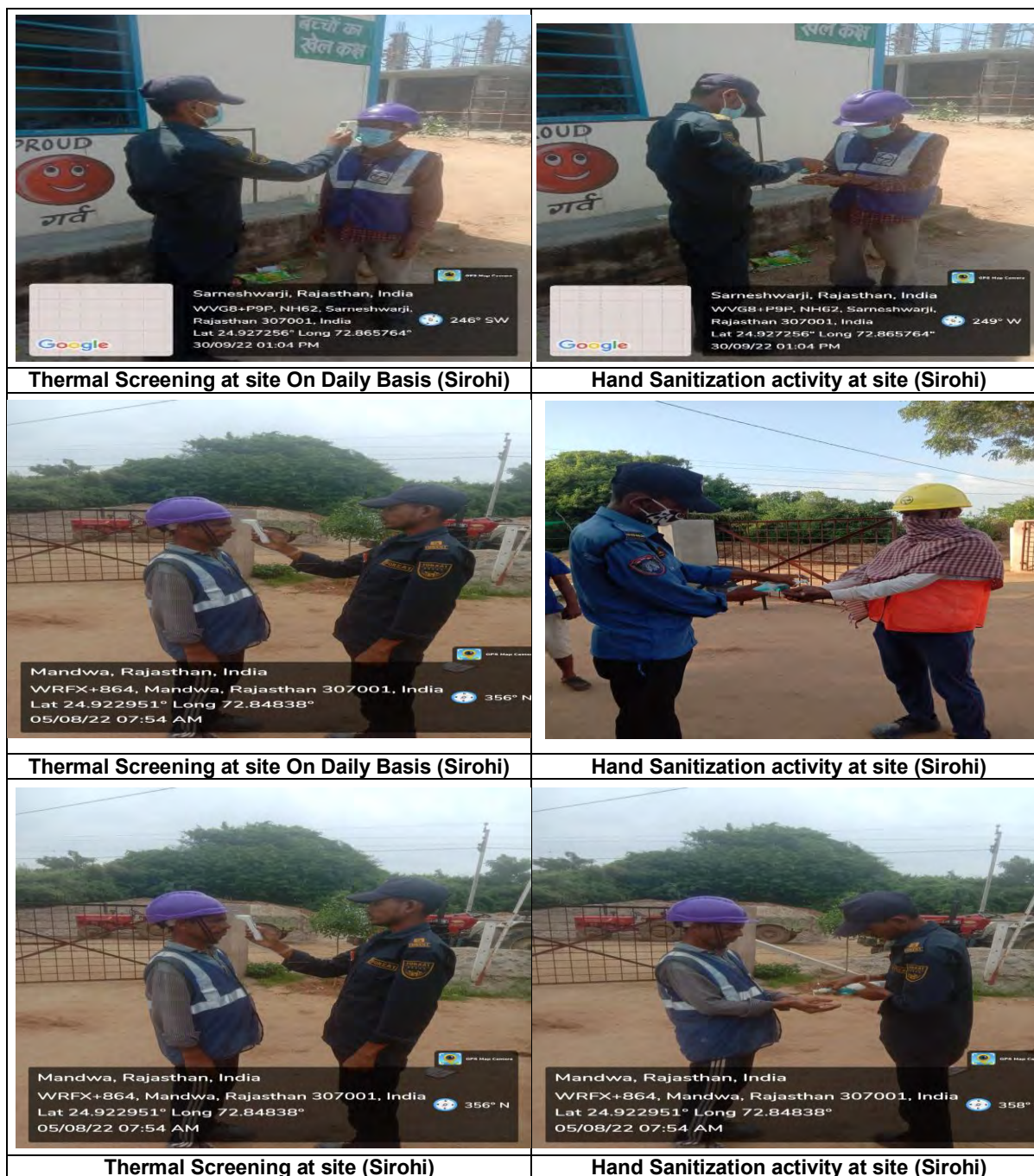


Hand Sanitization activity at site (Abu Road)



Disinfection activity at site On Daily Basis Abu Road))

Sirohi town



Ratangarh Town**Disinfection Activity at Site office Ratangarh****Thermal Screening at site On Daily Basis (Ratangarh)****Hand Sanitization activity at site (Ratangarh)****Health Check-up camp for workers Ratangarh**

Banswara Town



Thermal Screening at site (Banswara)



Hand Sanitization activity at site (Banswara)



Thermal Screening at site (Banswara)

Hand Sanitization activity at site (Banswara)

Pratapgarh Town



Thermal Screening at site (Pratapgarh)



Hand Sanitization activity at site (Pratapgarh)



COVID Awareness Training at Site (Pratapgarh)



Disinfection activity at site (Pratapgarh)



HIV/ AIDS Training camp



Health Check up camp for workers

Sardarshahar Town**Fatehpur Town**

Laxmangarh town**Thermal Screening at site On Daily Basis (Laxmangarh)****Thermal Screening at site (Laxmangarh)****Hand Sanitization activity at site (Laxmangarh)**

**Appendix 11: ENVIRONMENTAL MONITORING RESULTS DURING April 2022 to
September 2022 IN RSTDSP
Air Monitoring Results**

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)

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/BNS/04						
	Banswara Town						
	AEN Campus (PHED) WTP	01.04.2022 to 03.04.2022	86.2	42.4	15.8	19.6	514
	Kagdi WTP Site		62.4	29.8	9.2	13.6	278
	Existing STP Site		70.4	33.6	10.4	13.8	366
	SPS At Nathelav pond		71.4	32.6	11.5	14.8	408
	SPS at Pratapgarh Road		56.2	25.4	7.6	11.4	256
	Housing Board Area		64.6	28.4	8.4	12.3	332
2	RSTDIP/KMN/02						
	Kuchaman Town						
	RUIDP Office (Near SPS-02)	19.04.2022 to 22.04.2022	82.0	46.0	8.8	25.0	560
	STP Site - 1		75.0	38.0	9.6	19.0	580
	Pipe Laying Site - 1 (Budsu Road)		88.0	38.0	9.2	31.0	450
	Storage Yard (L&T Store)		81.0	44.0	10.9	24.0	200
	Pipe Laying Site (Suraj colony)		92.0	50.0	8.8	23.0	530
	PHED Campus		78.0	36.0	7.9	29.0	470
3	RSTDIP/MKN/01						
	Makrana Town						
	STP Site - 1	22.04.2022 to 24.04.2022	85.0	46.0	8.0	19.0	420
	SPS Site - 1		89.0	42.0	8.8	25.0	510
	SPS Site - 2		81.0	40.0	10.6	30.0	490
	Pipe Laying Site		79.0	44.0	9.6	28.0	560
4	RSTDIP/ KTR/03						
	Khetri Town						
	Near PHED office old	23.04.2022 to 24.04.2022	78.3	40.1	9.1	16.28	310
	Near Ajeet Govt Hospital		64.0	33.7	7.7	17.23	290
	Near UP Koshadhikari office		71.3	38.5	9.0	17.55	300
	Near JEN Staff Colony		66.8	36.3	8.1	15.75	320
	In Jai Singh Govt School		64.2	35.1	7.1	14.12	280
	Near ITI College		72.4	39.3	8.1	18.25	280
	Near Prashashnik Bhawan		74.2	40.1	7.6	15.17	300
5	RSTDIP/LDN-DID-MKN/01						
	Didwana town						
	STP Site - 1	24.04.2022 to 25.04.2022	86.0	36.0	10.4	24.0	470
	SPS Site - 1		80.0	39.0	7.5	22.0	490
	Pipe Laying Site - 1		77.0	33.0	8.8	26.0	540
	SPS Site - 2		82.0	45.0	10.5	28.0	520
6	RSTDIP/LDN-DID-MKN/01						

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)
	Ladnu Town						
	STP Site - 01	25.04.2022 to 26.04.2022	87.0	42.0	8.0	20.0	570
	STP Site - 02		89.0	48.0	9.1	22.0	440
	Pipe Laying Site		84.0	46.0	7.2	24.0	490
7.	RSTDIP/PRT/01						
	Pratapgarh Town						
	STP Pratapgarh	30.05.2022 to 31.05.2022	83.7	41.2	11.5	24.6	550
	CRMC II		80.6	39.2	12.2	23.5	530
	Krishi Mandi Back side		78.2	37.7	10.3	22.5	510
8	RSTDIP/ SRD/01						
	Sardarshahar Town						
	STP 1 – (2.3 MLD) south campus	02.06.2022 to 05.06.2022	72.6	30.0	10.2	18.01	640
	STP -2 (3.4 MLD) North Campus		78.6	31.2	10.96	18.8	750
	PHED Campus (CWR – 2400 KL)		84.5	33.9	14.25	26.5	870
	HDPE laying (DMA 4F)		72.1	28.4	10.07	16.1	690
	HDD Pipe laying Near Bikaner Highway		74.1	31.3	10.86	17.5	670
	SPS 2.3 MLD Gaushala land		71.2	30.0	10.88	17.5	670
9	RSTDIP/SHR-ABR/01						
	Abu Road						
	Luniapura CWR	06.06.2022 to 07.06.2022	72.4	35.5	9.9	16.2	520
	Manpur STP		73.7	34.8	11.6	16.7	780
	Manpur CWR		70.8	30.5	9.1	14.9	500
	Near STP & WTP Santpur		73.8	34.1	9.1	15.3	740
	CWR site Market area		68.4	30.7	8.1	12.3	460
10	RSTDIP/MDW/03						
	Mandawa Town						
	SPS – 1 PHED Campus Beside SPS Site	02.07.2022 to 04.07.2022	65.7	25.0	8.2	14.3	570
	CWR site - 1		70.3	25.9	9.5	16.4	600
	STP Site - 1		72.0	27.3	9.6	18.2	620
	Pipe Laying Site (Dumra ki Dhani)		75.2	28.3	9.2	18.7	640

Noise Monitoring Results

	Package / Town / Monitoring Location		Type of area	Noise Level Leq (dB(A))	
				Day time	Night time
	Noise Standard (National)	Monitoring date	Industrial Area	75	70
			Commercial/ Mixed Area	65	55
			Residential/ Rural	55	45
			Sensitive area	50	40
	Applicable Per ADB SPS (IFC's limits for Noise Level)		Residential/ institutional/ educational	55 dB(A)	45 dB(A)

S.No.	Package / Town / Monitoring Location	Monitoring date	Type of area	Noise Level Leq (dB(A))	
				Day time	Night time
1	RSTDIP/BNS/04				
	Banswara Town				
	AEN Campus (PHED) WTP	01.04.2022 to 03.04.2022	Residential	52	45
	Kagdi WTP Site			46	40
	Existing STP Site			55	48
	SPS At Nathelav pond			58	46
	SPS at Pratapgarh Road			50	42
	Housing Board Area			48	42
2.	RSTDIP/KMN/02				
	Kuchaman Town				
	STP Site - 1	19.04.2022 to 22.04.2022	Residential	62.0	44.9
	RUIDP Office (Near SPS-02)			61.8	42.5
	Pipe Laying Site - 1 (Budsu Road)			65.4	47.0
	Storage Yard (L&T Store)			61.6	42.1
	Pipe Laying Site (Suraj colony)			61.9	41.8
	PHED Campus			66.8	46.3
3	RSTDIP/MKN/01				
	Makrana Town				
	STP Site - 1	22.04.2022 to 24.04.2022	Residential	64.4	45.6
	SPS Site – 1			60.5	46.9
	SPS Site - 2			62.0	42.8
	Pipe Laying Site			63.7	48.8
4.	RSTDIP/ KTR/03				
	Khetri Town				
	Near PHED office old	23.04.2022 to 24.04.2022	Residential	56.3	43.2
	Near Ajeet Govt Hospital			57.1	46.2
	Near UP Koshadhikari office			58.6	45.7
	Near JEN Staff Colony			56.5	45.3
	In Jai Singh Govt School			57.3	42.1
	Near ITI College			59.2	47.1
Near Prashashnik Bhawan	55.7			41.3	
5.	RSTDIP/LDN-DID-MKN/01				
	Didwana town				
	STP Site - 1	24.04.2022 to 25.04.2022	Residential	58.7	40.1
	SPS Site - 1			60.5	43.2

S.No.	Package / Town / Monitoring Location	Monitoring date	Type of area	Noise Level Leq (dB(A))	
				Day time	Night time
	Pipe Laying Site - 1			64.8	49.0
	SPS Site - 2		62.6	41.8	
6.	RSTDIP/LDN-DID-MKN/01				
	Ladnu Town				
	STP Site - 01	25.04.2022 to 26.04.2022	Residential	63.0	46.6
	STP Site - 02			61.4	42.0
	Pipe Laying Site			64.4	48.1
7.	RSTDIP/PRT/01				
	Pratapgarh Town				
	STP Pratapgarh	30.05.2022 to 31.05.2022	Residential	57.0	48.2
	CRMC II			55.4	49.2
	Krishi Mandi Back side			59.6	50.2
8.	RSTDIP/ SRD/01				
	Sardarshahar Town				
	STP 1 – (2.3 MLD) south campus	02.06.2022 to 05.06.2022	Residential	46.1	38.2
	STP -2 (3.4 MLD) North Campus			52.8	37.3
	PHED Campus (CWR – 2400 KL)			55.8	45.7
	HDPE laying (DMA 4F)			49.8	40.1
	HDD Pipe laying Near Bikaner Highway			53.8	42.7
	SPS 2.3 MLD Gaushala land			52.2	45.8
9.	RSTDIP/SHR-ABR/01				
	Abu Road				
	Luniapura CWR	06.06.2022 to 07.06.2022	Residential	59.0	41.9
	Manpur STP			58.0	43.0
	Manpur CWR			56.0	41.2
	Near STP & WTP Santpur			62.0	48.3
	Networks Location Nr. Nagar Palika office, Abkari			59.4	42.1
10.	RSTDIP/MDW/03				
	Mandawa Town				
	SPS – 1 PHED Campus Beside SPS Site	02.07.2022 to 04.07.2022	Residential	52.1	42.0
	CWR site - 1			54.1	43.2
	STP Site - 1			55.7	45.0
Pipe Laying Site (Dumra ki Dhani)	50.4			40.8	

Ground water Quality Monitoring Results

S. No	Parameter	RSTDIP/ KMN/02			RSTDIP/LDN-DID-MKN/01				Drinking water standards (desirable – permissible value)
		Kuchaman Date of Sampling: 20.04.2022			Makrana Date of Sampling: 22.04.2022				
		STP Site - 1	SPS Site - 2	Storage Yard	STP Site - 1	SPS Site - 1	SPS Site - 2	Storage Yard	
1	pH	8.73	7.85	7.41	7.64	7.68	7.96	8.30	6.5 – 8.5
2	Total Dissolved solids	1492.0	1264.0	3308.0	2098.0	2220.0	226.0	1180.0	500-2000 mg/l
3	Total Hardness as CaCO ₃	63.0	392.0	1290.0	776.0	1470.0	133.0	392.0	200-600 mg/l
4	Chloridesas Cl	350.0	308.0	1819.0	470.0	539.0	29.0	196.0	250-1000 mg/l
5	Fluorides(as F)	1.1	1.9	0.41	0.62	0.38	0.24	0.78	1-1.5 mg/l
6	Sulphates as SO4	135.0	102.0	228.0	73.0	232.0	25.0	242.0	200-400 mg/l
7	Nitrate as NO ₃	9.4	28.0	25.0	66.0	115.0	8.0	35.0	45 mg/l
8	Total Alkalinity	644.0	554.0	269.0	889.0	388.0	117.0	343.0	200-600 mg/l
9	Iron as Fe	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.05 - 0.3 mg/l
10	Chromium (Hexavalent)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
11	Dissolved Oxygen(DO)	4.9	5.2	4.8	6.8	5.6	7.7	6.0	-
12	Phenolic compounds	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001-0.002 mg/l
13	Total Phosphate	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	-
14	Arsenic (as As)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01-0.05 mg/l
15	Cadmium (as Cd)	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001-0.003 mg/l
16	Copper as Cu	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.05-1.5 mg/l
17	Lead (as Pb)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01 mg/l
18	Manganese as Mn	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.1-0.3 mg/l
19	Zinc as Zn	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02 -15 mg/l
20	Mercury (as Hg)	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001 mg/l

**Ground water Quality Monitoring Results
Continuation Sheet – 2**

S. No	Parameter	RSTDIP/KTR/03	RSTDIP/LDN-DID-MKN/01			RSTDIP/LDN-DID-MKN/01		Drinking water standards (desirable – permissible value)
		Khetri Date of Sampling: 23.04.2022	Didwana Date of Sampling: 24.04.2022			Ladnu Date of Sampling: 25.04.2022		
		Sidhi Vinayak temple	STP Site - 1	SPS Site - 1	SPS Site – 2	STP Site - 1	STP Site - 2	
1	pH	7.70	8.69	8.32	7.92	7.91	7.97	6.5 – 8.5
2	Total Dissolved solids	260.0	2290	2640	222.0	7300.0	2980.0	500-2000 mg/l
3	Total Hardness as CaCO ₃	194.0	90.0	396.0	125.0	902.0	455.0	200-600 mg/l
4	Chloridesas Cl	163.98	480.0	637.0	26.0	2023.0	1920.0	250-1000 mg/l
5	Fluorides(as F)	0.38	1.5	1.7	25.0	7.1	4.6	1-1.5 mg/l
6	Sulphates as SO4	74.16	109.0	154.0	23.0	644.0	500.0	200-400 mg/l
7	Nitrate as NO ₃	19.26	68.0	150.0	4.5	81.0	58.0	45 mg/l
8	Total Alkalinity	225	953.0	889	113	1212.0	889.0	200-600 mg/l
9	Iron as Fe	0.16	0.09	< 0.05	< 0.05	< 0.05	< 0.05	0.05 - 0.3 mg/l
10	Chromium (Hexavalent)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
11	Dissolved Oxygen(DO)	6.6	7.2	6.5	7.4	4.1	4.9	-
12	Phenolic compounds	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001-0.002 mg/l
13	Total Phosphate	< 0.15	< 0.15	0.18	< 0.15	< 0.15	< 0.15	-
14	Arsenic (as As)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01-0.05 mg/l
15	Cadmium (as Cd)	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001-0.003 mg/l
16	Copper as Cu	0.13	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.05-1.5 mg/l
17	Lead (as Pb)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01 mg/l
18	Manganese as Mn	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.1-0.3 mg/l
19	Zinc as Zn	0.23	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02 -15 mg/l
20	Mercury (as Hg)	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001 mg/l

**Ground water Quality Monitoring Results
Continuation Sheet – 3**

S. No	Parameter	RSTDIP/SRD/01						RSTDIP/PRT/01			Drinking water standards (desirable – permissible value)
		Sardarshahar Date of Sampling: 02.06.2022						Pratapgarh Date of Sampling: 30.05.2022			
		STP 1 – (2.3 MLD) south campus	STP -2 (3.4 MLD) North Campus	PHED Campus (CWR – 2400 KL)	HDPE laying Site (DMA 4F) Borewell	HDD Pipe laying Near Bikaner Highway	SPS 2.3 MLD Gaushala land	STP Pratapg arh	Kila Parisar	Krishi Mandi Back side	
1	pH	7.56	8.21	7.57	8.07	7.78	7.97	7.55	7.42	7.75	6.5 – 8.5
2	Total Dissolved solids	254.0	1552.0	1563.0	814.0	1068.0	1084.0	716.3	602	765.1	500-2000 mg/l
3	Total Hardness as CaCO ₃	136.62	419.76	530.64	316.8	336.6	336.6	198.4	180.6	192.6	200-600 mg/l
4	Chloridesas Cl	50.35	383.82	395.22	212.81	324.92	336.32	304.8	202.4	245.5	250-1000 mg/l
5	Fluorides(as F)	0.48	0.84	0.8	0.68	0.65	0.70	0.28	0.21	0.34	1-1.5 mg/l
6	Sulphates as SO4	30.64	242.27	238.71	130.4	126.84	125.17	97.24	38.74	72.64	200-400 mg/l
7	Nitrate as NO ₃	11.19	25.11	32.85	13.85	13.85	10.46	11.98	9.87	12.50	45 mg/l
8	Total Alkalinity	137.15	557.04	590.8	384.02	464.2	451.54	152.60	104.65	148.00	200-600 mg/l
9	Iron as Fe	0.09	0.2	0.2	0.16	0.18	0.20	0.08	0.08	0.14	0.05 - 0.3 mg/l
10	Chromium (Hexavalent)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
11	Dissolved Oxygen(DO)	5.3	5.0	5.0	5.0	4.9	5.0	4.14	4.39	5.14	-
12	Phenolic compounds	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001-0.002 mg/l
13	Total Phosphate	< 0.15	0.49	0.50	0.38	0.24	0.47	< 0.15	< 0.15	< 0.15	-
14	Arsenic (as As)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01-0.05 mg/l
15	Cadmium (as Cd)	< 0.001	0.54	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001-0.003 mg/l
16	Copper as Cu	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.05-1.5 mg/l
17	Lead (as Pb)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01 mg/l
18	Manganese as Mn	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.1-0.3 mg/l
19	Zinc as Zn	< 0.02	< 0.02	0.50	0.36	0.30	0.52	0.14	0.15	0.22	0.02 -15 mg/l
20	Mercury (as Hg)	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001 mg/l

Ground water Quality Monitoring Results
Continuation Sheet – 4

S. No	Parameter	RSTDIP/SHR-ABR/01					RSTDIP/MDW/03			Drinking water standards (desirable – permissible value)
		Abu Road Date of Sampling: 06.06.2022					Mandawa Date of Sampling: 03.07.2022			
		Luniapura CWR	Manpur STP	Manpur CWR	Near STP & WTP Santpur	Networks Location Nr. Nagar Palika office, Abkari	SPS – 1 PHED	CWR site – 1	STP Site – 1	
1	pH	7.07	7.86	7.79	7.11	7.03	7.68	8.11	7.79	6.5 – 8.5
2	Total Dissolved solids	1286.0	1192.0	1185.0	1171.0	1285.0	1452.0	1162.0	668.0	500-2000 mg/l
3	Total Hardness as CaCO ₃	590.4	241.6	237.6	229.7	566.3	213.8	166.3	142.6	200-600 mg/l
4	Chloridesas Cl	338.2	416.1	414.2	410.4	338.2	305.9	277.4	34.2	250-1000 mg/l
5	Fluorides(as F)	0.75	0.72	0.73	0.70	0.72	0.70	0.69	0.48	1-1.5 mg/l
6	Sulphates as SO4	132.5	133.0	130.6	121.1	133.0	110.7	83.4	24.0	200-400 mg/l
7	Nitrate as NO ₃	14.7	16.1	15.7	12.5	14.4	31.2	27.3	17.4	45 mg/l
8	Total Alkalinity	362.9	223.7	223.7	211.0	371.4	647.5	651.2	462.5	200-600 mg/l
9	Iron as Fe	0.24	0.23	0.22	0.22	0.23	0.17	0.15	0.16	0.05 - 0.3 mg/l
10	Chromium (Hexavalent)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
11	Dissolved Oxygen(DO)	-	-	-	-	-	5.9	6.0	5.8	-
12	Phenolic compounds	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001-0.002 mg/l
13	Total Phosphate	-	-	-	-	-	0.43	0.32	0.25	-
14	Arsenic (as As)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01-0.05 mg/l
15	Cadmium (as Cd)	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001-0.003 mg/l
16	Copper as Cu	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.05-1.5 mg/l
17	Lead (as Pb)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01 mg/l
18	Manganese as Mn	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.1-0.3 mg/l
19	Zinc as Zn	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.02 -15 mg/l
20	Mercury (as Hg)	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001 mg/l

Ground water Quality Monitoring Results
Continuation Sheet – 5

S.No	Parameters	RSTDIP/SRD/01						Units
		Sardarshahar Date of sampling: 02.06.2022						
		STP 1 – (2.3 MLD) south campus	STP -2 (3.4 MLD) North Campus	PHED Campus (CWR – 2400 KL)	HDPE laying Site (DMA 4F) Borewell	HDD Pipe laying Near Bikaner Highway	SPS 2.3 MLD Gaushala land	
1	pH	7.56	8.21	7.57	8.07	7.78	7.97	-
2	Total Dissolved solids	254.0	1552.0	1563.0	814.0	1068.0	1084.0	mg/l
3	Total Hardness as CaCO ₃	136.62	419.76	530.64	316.8	336.6	336.6	mg/l
4	Chlorides as Cl	50.35	383.82	395.22	212.81	324.92	336.32	mg/l
5	Fluorides (as F)	0.48	0.84	0.8	0.68	0.65	0.70	mg/l
6	Sulphate as SO ₄	30.64	242.27	238.71	130.4	126.84	125.17	mg/l
7	Nitrate as NO ₃	11.19	25.11	32.85	13.85	13.85	10.46	mg/l
8	Alkalinity as CaCO ₃	137.15	557.04	590.8	384.02	464.2	451.54	mg/l
9	Iron as Fe	0.09	0.2	0.2	0.16	0.18	0.20	mg/l
10	Hexavalent Chromium as Cr ⁺⁶)	BDL < 0.02	BDL < 0.02	BDL < 0.02	BDL < 0.02	BDL < 0.02	BDL < 0.02	mg/l
11	Dissolved Oxygen (DO)	5.3	5.0	5.0	5.0	4.9	5.0	mg/l
12	Phenolic compounds	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	BDL < 0.0004	mg/l
13	Phosphate as P	BDL < 0.2	0.49	0.50	0.38	0.24	0.47	mg/l
14	Arsenic (as As)	BDL < 0.002	BDL < 0.002	BDL < 0.002	BDL < 0.002	BDL < 0.002	BDL < 0.002	mg/l
15	Cadmium (as Cd)	BDL < 0.002	0.54	BDL < 0.002	BDL < 0.002	BDL < 0.002	BDL < 0.002	mg/l
16	Copper as Cu	BDL < 0.002	BDL < 0.002	BDL < 0.002	BDL < 0.002	BDL < 0.002	BDL < 0.002	mg/l
17	Lead (as Pb)	BDL < 0.002	BDL < 0.002	BDL < 0.002	BDL < 0.002	BDL < 0.002	BDL < 0.002	mg/l
18	Mercury (as Hg)	BDL < 0.0005	BDL < 0.0005	BDL < 0.0005	BDL < 0.0005	BDL < 0.0005	BDL < 0.0005	mg/l
19	Zinc as Zn	BDL < 0.01	BDL < 0.01	0.50	0.36	0.30	0.52	mg/l
20	Manganese as Hg	BDL < 0.01	BDL < 0.01	BDL < 0.01	BDL < 0.01	BDL < 0.01	BDL < 0.01	mg/l

Surface water Quality Monitoring Results

S. No	Parameter	RSTDIP/KTR/03					RSTDIP/BNS/04	RSTDIP/LDN-DID-MKN/01	Drinking water standards (desirable – permissible value)
		Khetri Date of Sampling: 23.04.2022					Banswara Date of Sampling: 03.04.2022	Didwana Date of Sampling: 25.04.2022	
		PHED office old	Ajeet Govt Hospital	UP Koshad hikari office	JEN Staff Colony	Jai Singh Govt School	Kagdi Lake	STP Site – 1, near Pond	
1	pH	7.26	7.11	7.46	7.52	7.56	8.11	7.90	6.5 – 8.5
2	Total Dissolved solids	310.0	320.0	285.0	320.0	280.0	230.0	2796.0	500-2000 mg/l
3	Total Hardness as CaCO ₃	200.0	192.0	190.0	204.0	210.0	132.0	251.0	200-600 mg/l
4	Chlorides as Cl	143.98	145.98	153.95	147.95	155.95	22.0	2249.0	250-1000 mg/l
5	Fluorides (as F)	0.44	0.47	0.36	0.29	0.30	0.88	1.4	1-1.5 mg/l
6	Sulphates as SO ₄	72.48	70.16	79.64	68.12	83.24	21.7	213.0	200-400 mg/l
7	Nitrate as NO ₃	18.24	15.76	21.16	18.24	22.65	-	< 0.5	45 mg/l
8	Total Alkalinity	205	220	230	230	220	-	-	200-600 mg/l
9	Iron as Fe	0.11	0.22	0.10	0.17	0.12	0.18	4.2	0.05 - 0.3 mg/l
10	Chromium (Hexavalent)	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-
11	Dissolved Oxygen (DO)	6.4	5.4	6.2	5.6	5.8	5.1	5.4	-
12	Phenolic compounds	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001-0.002 mg/l
13	Total Phosphate	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	0.48	-	
14	Arsenic (as As)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01-0.05 mg/l
15	Cadmium (as Cd)	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001-0.003 mg/l
16	Copper as Cu	0.12	0.13	0.10	0.15	0.13	0.08	0.02	0.05-1.5 mg/l
17	Lead (as Pb)	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01 mg/l

S. No	Parameter	RSTDIP/KTR/03					RSTDIP/BNS/04	RSTDIP/LDN-DID-MKN/01	Drinking water standards (desirable – permissible value)
		Khetri Date of Sampling: 23.04.2022					Banswara Date of Sampling: 03.04.2022	Didwana Date of Sampling: 25.04.2022	
		PHED office old	Ajeet Govt Hospital	UP Koshad hikari office	JEN Staff Colony	Jai Singh Govt School	Kagdi Lake	STP Site – 1, near Pond	
18	Manganese as Mn	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.1	< 0.02	0.1-0.3 mg/l
19	Zinc as Zn	0.24	0.32	0.32	0.42	0.31	0.22	< 0.02	0.02 -15 mg/l
20	Mercury (as Hg)	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001 mg/l
21	Chemical Oxygen demand (COD)	-	-	-	-	-	< 4.0	290.0	
22	Biochemical Oxygen demand (BOD)	-	-	-	-	-	< 2.0	94.0	
23	Turbidity	-	-	-	-	-	0.2	52.0	
24	Total Suspended Solids (TSS)	-	-	-	-	-	< 5.0	65.0	
25	Calcium as Ca	-	-	-	-	-	34.0	28.0	
26	Magnesium as Mg	-	-	-	-	-	12.0	43.0	
27	Sodium as Na	-	-	-	-	-	18.0	1170.0	
28	Potassium (as K)	-	-	-	-	-	4.0	216.0	
29	Cyanide as CN	-	-	-	-	-	< 0.01	< 0.02	
30	Boron as B	-	-	-	-	-	0.08	< 0.5	
31	Selenium as Se	-	-	-	-	-	< 0.01	< 0.005	
32	Aluminium as Al	-	-	-	-	-	< 0.01	< 0.01	
33	Total Residual Chlorine	-	-	-	-	-	< 0.2	< 0.1	

Soil Quality Results
Soil Quality Results (Continued---1)

S. No	Parameter	Unit	RSTDIP/KTR/03							RSTDIP/MDW/03		
			Town : Khetri, Date of Sampling: 23.04.2022							Town : Mandawa Date of Sampling : 03.07.2022		
			Near PHED office old	Near Ajeet Govt Hospital	Near UP Koshadhi kari office	Near JEN Staff Colony	In Jai Singh Govt School	STP proposed site	Sidhi Vinayak Temple	SPS – 1 PHED Campus Beside SPS Site	CWR site – 1	STP Site – 1
1	pH	-	7.64	7.52	7.68	7.24	7.68	7.73	7.62	8.36	8.24	8.18
2	Electrical Conductivity (at 25°C)	mS/cm	0.124	0.134	0.144	0.124	0.142	0.146	0.130	0.489	0.524	0.456
3	Soil texture	-	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy
4	Moisture Content	%	0.32	0.34	0.26	0.32	0.26	0.31	0.24	26.0	29.0	7.2
5	Calcium Carbonate	Mg/kg	10.14%	13.16%	15.21%	12.48%	13.28%	12.20%	14.26%	36.20	40.72	36.22
6	Bulk Density	gm/cc	1.10	1.24	1.57	1.54	1.62	1.56	1.73			
7	Magnesium (as Mg)	mg/kg	34.26	36.48	37.46	41.26	41.26	41.23	44.26	14.58	14.88	8.46
8	Organic Carbon	%	0.24	0.26	0.26	0.32	0.26	0.26	0.26	0.77	0.76	0.68
9	Sodium (as Na)	mg/kg	3.8	3.3	3.6	3.6	3.3	3.6	4.6	34.88	38.60	43.84
10	Potassium (as K)	kg/hect	4.3	3.8	4.0	3.5	3.2	3.4	4.2	259.3	282.4	142.6
11	Total Kjeldhal Nitrogen (as TKN) / Available Nitrogen as N	kg/hect	0.02	0.04	0.03	0.02	0.01	0.03	0.02	232.20	242.36	218.48
12	Total Phosphorous (P)	kg/hect	10.4	13.0	13.4	15.6	11.61	12.4	15.3	40.16	41.20	41.02
13	Permeability	Cm/S	-	-	-	-	-	-	-	0.001265	0.00854	0.001066

Soil Quality Results (Continued---2)

S. No	Parameter	Unit	RSTDIP/LDN-DID-MKN/01								
			Town : Makrana, Date of Sampling: 23.04.2022			Town : Didwana, Date of Sampling: 24.04.2022			Town : Ladnu Date of Sampling: 25.04.2022		
			STP Site - 1	SPS Site - 1	Pipe Laying Site	STP Site - 1	SPS Site - 1	SPS Site - 2	STP Site - 1	STP Site - 2	Pipe Laying Site
1	pH	-	7.75	7.76	8.02	9.49	9.83	7.40	7.97	7.84	8.54
2	Oil & Grease	mg/kg	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
3	Sand	%	86.0	81.0	88.0	91.0	85.0	88.0	83.0	91.0	89.0
4	Silt	%	12.0	13.0	9.0	5.0	9.0	7.0	5.0	7.0	6.0
5	Texture	-	Sand	Loamy Sand	Sand	Sand	Sand	Sand	Loamy Sand	Sand	Sand
6	Sodium as Na	mg/kg	41.0	34.0	43.0	43.0	39.0	38.0	44.0	38.0	41.0
7	Clay	%	2.0	6.0	3.0	4.0	6.0	5.0	7.0	2.0	5.0
8	Electrical Conductivity	µS/cm	122.0	639.0	238.0	349.0	2520.0	338.0	134.0	149.0	501.0
9	Total Nitrogen as N	mg/kg	123.0	168.0	112.0	118.0	151.0	134.0	185.0	129.0	157.0
10	Organic matter	%	0.10	0.21	0.10	0.10	0.21	0.15	0.26	0.10	0.15
11	Permeability	Cm/hr	5.0	4.5	4.9	5.0	4.7	4.8	4.6	0.5	4.8
12	Calcium Carbonate	mg/kg	1650.0	5700.0	4600.0	6800.0	4050.0	2950.0	7350.0	4800.0	7550.0
13	Magnesium as Mg	mg/kg	120.0	990.0	180.0	210.0	330.0	360.0	240.0	480.0	540.0
14	Potassium as K	mg/kg	34.0	67.0	95.0	284.0	435.0	110.0	31.0	81.0	202.0
15	Phosphate as PO ₄	mg/kg	< 9.0	< 9.0	9.6	10.0	< 9.0	11.0	< 9.0	< 9.0	< 9.0
16	Moisture	%	10.0	8.1	16.0	26.0	29.0	7.2	9.2	7.8	14.0

Soil Quality Results (Continued---3)

S. No	Parameter	Unit	RSTDIP/PRT/01			RSTDIP/SHR-ABR/01				
			Town : Pratapgarh Date of Sampling:			Town : Abu Road Date of Sampling: 06.06.2022				
			STP Pratapgarh	CRMC II	Krishi Mandi Back side	Luniapura CWR	Manpur STP	Manpur CWR	Near STP & WTP Santpur	Networks Location Nr. Nagar Palika office, Abkari
1	pH	-	7.95	7.42	7.56	7.93	7.87	7.75	7.81	7.96
2	Electrical Conductivity	µS/cm	523.64	423.68	611.25	369	391	358	361	371
3	Calcium (as Ca)	mg/kg	8.25	10.68	13.52	409.49	406.32	420.60	401.55	412.66
4	Magnesium (as Mg)	mg/kg	7.39	9.52	11.60	77.05	91.49	82.82	86.68	81.86
5	Sodium (as Na)	mg/kg	89.64	95.60	102.64	84.93	81.30	90.02	94.91	84.86
6	Potassium (as K)	mg/kg	52.36	58.32	63.97	142.34	167.14	184.94	181.12	167.71
7	Organic Matter	%	0.55	0.59	0.72	0.52	0.60	0.65	0.57	0.57
8	Soil Texture	-	Sandy Loam	Sandy Loam	Sandy Loam	Sandy	Sandy	Sandy	Sandy	Sandy
9	Total Nitrogen (as TKN) / Available Nitrogen (as N)	mg/kg	212.55	265.80	314.50	274.01	268.50	283.91	268.09	273.60
10	Phosphorus (as P)	mg/kg	121.60	135.40	152.69	19.00	19.05	21.10	19.41	20.16
11	Moisture content	%	11.02	12.69	16.87	3.59	3.14	3.38	3.87	3.31
12	Permeability	cm/hr	13.80	12.50	11.20	0.0008	0.0007	0.0006	0.0008	0.0007
13	Oil & Grease	mg/kg	BDL	BDL	BDL	BDL < 5.0	BDL < 5.0	BDL < 5.0	BDL < 5.0	BDL < 5.0

Soil Quality Results (Continued---4)

S. No	Parameter	Unit	RSTDIP/SRD/01					
			Town : Sardarshahar, Date of Sampling: 02.06.2022					
			STP 1 – (2.3 MLD) south campus	STP -2 (3.4 MLD) North Campus	PHED Campus (CWR – 2400 KL)	HDPE laying Site (DMA 4F) Borewell	HDD Pipe laying Near Bikaner Highway	SPS 2.3 MLD
1	pH (at 25°C)	-	8.12	8.41	8.39	8.34	8.19	8.41
2	Electrical Conductivity	mS/cm	0.389	0.369	0.411	0.244	0.464	0.359
3	Calcium (as Ca)	mg/kg	147.61	123.80	142.82	131.73	138.08	114.28
4	Magnesium (as Mg)	mg/kg	101.12	89.57	94.38	93.42	97.27	82.82
5	Sodium (as Na)	mg/kg	104.95	123.32	134.48	145.08	139.69	111.69
6	Potassium (as K)	Kg/hect	153.59	146.39	152.40	169.75	167.30	149.31
7	Organic Carbon	%	0.52	0.53	0.57	0.59	0.62	0.55
8	Soil Texture	-	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
9	Total Kjeldhal Nitrogen (as N)	Kg/hect	358.82	373.24	361.37	351.21	384.55	363.91
10	Phosphate	Kg/hect	37.58	34.54	30.32	33.83	35.83	31.07
11	Moisture content	%	7.84	3.63	5.48	3.40	4.11	3.51
12	Permeability	cm/S	0.0008	0.0009	0.0008	0.0006	0.0007	0.0007
13	Oil & Grease	mg/kg	13.16	14.89	13.93	12.22	11.84	12.63

APPENDIX 12: LETTER FROM PMU TO ESTABLISH GRM IN ALL PIUs

RUIDP 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.: 0141-2721966, Fax No.: 0141-2721919
 email: mailruidp@gmail.com, mailruidp@rajasthan.gov.in web site: <http://www.urban.rajasthan.gov.in/ruidp>
 No. F3 (301) (80)/RUIDP/PMU/PH-IV/ADB S. Safeguard /Gen adm./2020-21/11367 Date: 18/12/2020

Suprintending Engineer/Executive Engineer
 PIU- Abu Road, Sirahi, Ratangarh,
 Fatehpur, Laxmangarh, Sardarshah,
 Kuchaman, Ladnu, Mokiana, Didwana,
 Khetd, 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. Contractor/ 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 EMMP and

shp
21/12/20

Project Management and Capacity Building Consultancy (PCC) - RSTDSP (RUIDP-V)			
Received by 21/12/2020		Forward No 1000	
TL	DTL/SEC	C/S	S/S
STRE	EE	PE	S/S
PC	TECH	PC	IF
CS	PE	ENV ENG	WCL
PC	CH	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 Personnel 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 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 Personnel 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.

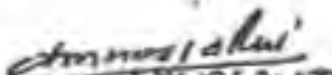
All PIUs will ensure timely issuance of order with a copy to Project Officer (Social & Environment), PMU. Further PIUs will be responsible to ensure redressal of grievances as per GRM procedures summarized above.



Chief Engineer, RUIDP

No. F3 (301) (60)/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. Mondawalia)

PO (Co-ord. & Social)

APPENDIX 13: ACCIDENT, INCIDENT, NEAR MISS AND FIRST AID CASES IN PROJECT TOWNS DURING April 2022 to September 2022 PERIOD

Town: Kuchaman

Project: - IWS&SN Kuchaman

Contractor: -----L&T

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2022	0	0	0	0
May 2022	0	0	0	0
June 2022	0	0	1	1
July 2022	0	0	0	0
August 2022	0	0	1	0
September 2022	0	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.	June 2022	01	Minor, 01	First Aid treatment provided.

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken by
1.	June 2022	1	Minor	Anurag
2.	August 2022	1	Minor	Anurag

Town: Makrana

Project: Sewerage Works at Makrana

Contractor: L&T

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2022	0	0	0	0
May 2022	0	0	0	0
June 2022	0	0	0	1
July 2022	0	0	0	1
August 2022	0	0	0	0
September 2022	0	0	0	1

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	June 2022	1	While doing housekeeping activity, Prem Devi got small cut injury on right hand middle finger. She was given first aid at site by first aider.	Hand gloves distributed and training provided.
2.	July 2022	1	Worker was doing grinding activity at STP for repair works. Grinding machine got slipped from his hand and he got cut injury at left hand elbow. Grinder machine was having guard and handle. He was taken to nearby hospital and dressing was done.	Distributed all job specific PPEs to workers. Training was given to workers on machine safety and precautionary inspections.
3.	September 2022	1	While doing de-shuttering activity worker got scratched by steel bar on right side of forehead below helmet. He got minor cut/scratch injury. He was given first aid by first aider at site.	Training on material handling, PPEs and work at height given. Given extra order for rebar cap for site implementations.

Town: Didwana**Project: Sewerage Works at Didwana****Contractor: L&T**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2022	0	0	0	0
May 2022	0	0	0	0
June 2022	0	0	0	1
July 2022	0	0	0	0
August 2022	0	0	0	0
September 2022	0	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.	June 2022	1	While shifting manhole tri sling manually, supervisor got a cut injury on his right hand. He was given first aid immediately at nearby clinic.	Training to all workers on proper manual material handling. Instructed to use hand gloves while handling materials.

Town: Khetri**Contractor: M/s Lahoty – LNA (JV)**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2022	0	0	1	0
May 2022	0	0	0	0
June 2022	0	0	0	1
July 2022	0	0	1	1
August 2022	0	0	0	0
September 2022	0	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 by
1.	April 2022	1	Minor	Raj Kapoor Meena
2.	July 2022	1	Minor	Raj Kapoor Meena

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken by
1.	June 2022	1	Minor	Raj Kapoor Meena
2	July 2022	1	Minor	Raj Kapoor Meena

Town: Ladnu**Project: Ladnu Sewerage Project****Contractor: L&T**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2022	0	0	0	0
May 2022	0	0	1	0
June 2022	0	0	0	1
July 2022	0	0	0	0
August 2022	0	0	0	0
September 2022	0	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 by
1.	May 2022	1	Minor	Jeevan

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken by
1.	June 2022	1	Minor	Jeevan

Town: - MANDAWA**Project: - Water supply and sewerage project****Contractor: - LNAR&B(JV)**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near-miss cases	Nos. of first aid cases
April 2022	0	0	0	0
May 2022	0	0	4	1
June 2022	0	0	5	1
July 2022	0	0	3	1
August 2022	0	0	2	1
September 2022	0	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 by
1.	May 2022	4	Minor	Mr. Manoj Kumar
2.	June 2022	5	Minor	Mr. Manoj Kumar
3.	July 2022	3	Minor	Mr. Manoj Kumar
4	August 2022	2	Minor	Mr. Manoj Kumar

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken by
1.	May 2022	1	Minor	Mr. Manoj Kumar
2.	June 2022	1	Minor	Mr. Manoj Kumar
3.	July 2022	1	Minor	Mr. Manoj Kumar
4.	August 2022	1	Minor	Mr. Manoj Kumar

Town: Sirohi**Contractor: Larsen & Toubro Construction Limited (L&T)**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2022	0	0	0	0
May 2022	0	0	0	0
June 2022	0	0	0	0
July 2022	0	0	0	0
August 2022	0	0	0	0
September 2022	0	0	0	0

Town: Abu Road**Contractor: Larsen & Toubro Construction Limited (L&T)**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2022	0	0	0	0
May 2022	0	0	1	0
June 2022	0	0	0	1
July 2022	0	0	0	0
August 2022	0	0	0	0
Sep 2022	0	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.	May 2022	01	Unauthorized entry of workmen inside manhole	1. Prior intimation & approval shall be taken before starting any confined space activity. 2. Work permit & SEC shall be ensured. 3. All necessary arrangements along with emergency services shall be available at site for confined space activity. 4. Screening, medical procedures & skill authorization test shall be ensured for workmen engaged in confined space activity. 5. Mandatory PPEs shall be ensured during site activities. 6. Responsible site supervisor/staff shall be present at site during critical activities.

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	June 2022	01	Minor cut injury	Awareness training on importance of PPEs Adequate supervision at site during work

Town: Sardarshahar**Contractor: Larsen & Toubro Construction Limited (L&T)**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2022	0	0	1	1
May 2022	0	0	0	0
June 2022	0	0	0	0
July 2022	0	0	0	0
August 2022	0	0	0	0
September 2022	0	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 2022	01	Minor crack of pole	Immediately replaced the pole

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	16 April 2022	01	Dog bite in HDD work	Immediate first aid treatment given

Town: Fatehpur**Contractor: Larsen & Toubro Construction Limited (L&T)**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2022	0	0	0	0
May 2022	0	0	0	0
June 2022	0	0	0	0
July 2022	0	0	0	0
August 2022	0	0	0	0
September 2022	0	0	0	0

Town: Laxmangarh**Contractor: Larsen & Toubro Construction Limited (L&T)**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2022	0	0	0	0
May 2022	0	0	0	0
June 2022	0	0	0	0
July 2022	0	0	0	0
August 2022	0	0	0	0
September 2022	0	0	0	0

Town: Ratangarh**Contractor: Larsen & Toubro Construction Limited (L&T)**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2022	0	0	0	0
May 2022	0	0	0	0
June 2022	0	0	0	0
July 2022	0	0	0	0
August 2022	0	0	0	0
September 2022	0	0	0	0

Town: Pratapgarh**Contractor: Larsen & Toubro Construction Limited (L&T)**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2022	0	0	0	0
May 2022	0	0	0	0
June 2022	0	0	0	0
July 2022	0	0	0	0
August 2022	0	0	0	0
September 2022	0	0	0	0

Town: Banswara**Contractor: BIPL-SC-HP Joint Venture**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2022	0	0	0	0
May 2022	0	0	0	0
June 2022	0	0	0	0
July 2022	0	0	0	0
August 2022	0	0	0	0
September 2022	0	0	0	0

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