



Environmental Monitoring Report

Project Number: 42267-031
Semestral Report: October 2021 – March 2022
November 2022

India: Rajasthan Secondary Towns Development Sector Project

Part 1 of 3: Main Report (1 – 148) and Appendices 1-3

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/Ph-IV/Env/ 16512

Date: 17.11.2022

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SFG Log: 5155

Sub: Submission of revised Semi-annual Environmental Monitoring Report (SEMR) for the period of October 2021 to March 2022 of RUIDP Phase-IV (RSTDSP).

Ref: SEMR of Oct 21 to Mar 22 submitted by this office letter no. 3700 dated 20.06.2022 and letter no. 5191 dated 18.07.2022.

Please find enclosed herewith revised Semi-annual Environmental Monitoring Report (SEMR) for the period of October 2021 to March 2022 of RUIDP Phase-IV Rajasthan Secondary Towns Development Sector Project (RSTDSP) incorporating ADB's suggestions for ADB's review and approval.

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

Enclosure: As above

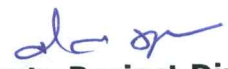

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Date: 17.11.2022

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Semi-Annual Environmental Monitoring Report

SFG Log: 5155

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: October 2021 to March 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 wastewater 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.

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

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

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.

4. This Semi-Annual Environmental Monitoring Report for the period of October 2021 to March 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 March 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. 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.

7. During this reporting period, orientations for environmental safeguard requirements were done in 13 towns (Abu Road, Sirohi, Ratangarh, Sardarshahar, Banswara, Laxmangarh, Fatehpur, Kuchaman, Ladnu, Makrana and Didwana, Mandawa & Khetri) by CMSC-1&2 Environmental Safeguard Professional and Safeguard Support staff. Participants in these orientation programs were PIU, contractor, CMSC engineers and supervisors. Onsite trainings were also conducted in these towns at different work sites to contractors' site supervisors, labours and operators.

8. 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.

9. 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.

10. Due diligence has been done in all towns, where construction works are started and it was verified that approved designs does not include any additional areas or work components, as reported in approved IEEs. Wherever any change in project sites are identified, impact assessments have been done for the new sites and reported in respective towns' updated IEEs. Periodical monitoring is being conducted by environmental professional/safeguard support of CMSCs1&2 through site visits which includes public consultations, consultations with labors and contractors' staff, verification of documents and environmental monitoring reports of ambient air, ambient noise, water quality and soil quality analysis being done by contractor through third party monitoring agencies.

11. In compliance for 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 March 2022, total 20 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 their design is not completed, therefore application to seek consent for these are under process.

12. 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.

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

Semi-Annual Environmental Monitoring Report (October 2021 to March 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 wastewater and reuse of treated effluent etc.

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,

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.

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 sewer 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 nominated one engineer from PIU 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**

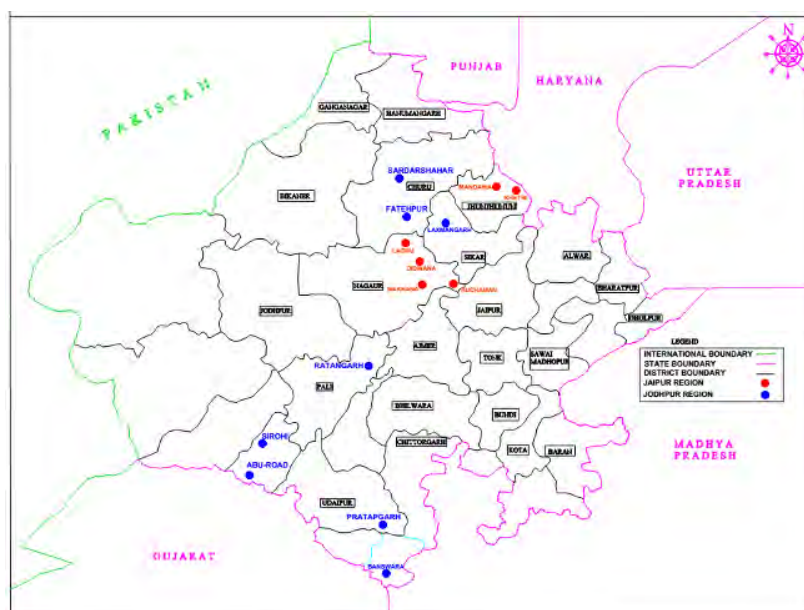
Name of Official	Location	Designation	Contact Details
PMU & PMCBC at Jaipur			
Mr. Vijay Choudhary	PMU, Jaipur	Project Officer (Env)	9460553535
Mr. Rohit Kumar Jangid	PMU, Jaipur	Assistant Project Officer (Env)	96660642564
Mr. Abhay Srivastava	PMCBC, Jaipur	Environment Safeguard Specialist, PMCBC	Email: sse.pmcbc@rstdsp.com Mob.-9530014474
Dr. Priya Goyal (Left the project on 31.03.2022)	PMCBC, Jaipur	Safeguard Support-Environment, PMCBC	9549681594
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-I, 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			
Sh. Hari Babu	PIU, Laxmangarh	SSO, PIU, Laxmangarh	9414084627
Mr. Deepak Mandan	PIU, Ratangarh	SSO, PIU, Ratangarh	9828117635
Mr. Dinesh Fogat	PIU, Sardarshahar	SSO, PIU, Sardarshahar	8949425829
Mr. Surendra Godra	PIU, Fatehpur	SSO, PIU, Fatehpur	-
Mr. Ashok Kadwasara	PIU, Sirohi	SSO, PIU, Sirohi	9929355255
Mr. Sunil Bishnoi	PIU, Abu Road	SSO, PIU, Abu Road	9783767531
Mr. Prabhulal Bhabor	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.	PIU, Ladnun	SSO, PIU, Ladnun	9783433002
Mr. Jitendra Meena	PIU, Didwana	SSO, PIU, Didwana	9461307761
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. Mahesh Kumar Verma	Abu road/Sirohi	Safeguard Support Environment, CMSC-2	8058465413
Mr. Afzal Ansari	Ratangarh/Laxmangarh/Sardarshahar/Fatehpur	Safeguard Support Environment CMSC-2	8299562677
Mr. Amit Kumar Chauhan	Pratapgarh/Banswara	Safeguard Support Environment CMSC-2	7683044785

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	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	Md. Faisal	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 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 works of Sewer Network with House 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 of works of water supply and providing sewer network with house sewer connecting 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 of 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 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 of 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 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 of 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 of 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 Larsen & Toubro Limited,	08.03.2021	106,12,15,221.40	14,502,032.35	Construction of 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 of 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 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 of Works of Sewer Network with House 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 of Works of Sewer Network with House 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	Ladnun		M/s Larsen & Toubro Limited,	05.05.2021	174,40,93,122.00	23,586,994.33	Construction of Works of Sewer Network with House connections, and construction of Sewage Treatment Plant and all allied Works and operation services of the entire system for 10 years at Ladnun (Nagaur)

* 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, Makrana, Ladnu and Didwana). Overall status of the project and work progress is given in following **Table 3 & 4**

Table 3: Overall status of sub-projects (up to 31.03.2022)

S. No.	Sub-Project Towns and Package Number	Status of Sub-Project				Type of Works*	Progress of Works**
		Design	Pre-Construction	Construction	Operation Phase		
1	Laxmangarh-RSTDIP/RTG-FTP-LXG/01			√		Water Supply	91.95 %
2	Ratangarh-RSTDIP/RTG-FTP-LXG/01			√		Sewerage System	40 %
3	Fatehpur-RSTDIP/RTG-FTP-LXG/01			√		Sewerage System	80.2 %
4	Sardarshahar-RSTDIP/SRD/01			√		Sewerage System, Water Supply & Rehabilitation	53.96 %
5	Sirohi-RSTDIP/SHR-ABR/01			√		Sewerage System, Water Supply & Rehabilitation	39 %
6	Abu Road-RSTDIP/SHR-ABR/01			√		Sewerage System, Water Supply & Rehabilitation	40 %
7	Pratapgarh-RSTDIP/PRT/01			√		Sewerage System	40.35%
8	Banswara-RSTDIP/BNS/04			√		Sewerage System, Water Supply & Rehabilitation	20.38%
9	Khetri-RSTDIP/KTR/03			√		Sewerage System, Water Supply & Rehabilitation	31.28%
10	Mandawa-RSTDIP/MDW/03			√		Sewerage System, Water Supply & Rehabilitation	54.64%
11	Kuchaman-RSTDIP/KMN/02		√			Sewerage System, Water Supply & Rehabilitation	21.71%
12	Ladnu-RSTDIP/LDN-DID-MKN/01		√			Sewerage System	14.25%
13	Didwana-RSTDIP/LDN-DID-MKN/01		√			Sewerage System	29.41%
14	Makrana-RSTDIP/LDN-DID-MKN/01		√			Sewerage System	19.03%

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

Table 4: Cumulative Progress of Works up to 31.03.2022**Town: Ratangarh**

Contract description	Cumulative Progress of works up to 31.03.2022		
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- 44.33 % Cumulative Physical Progress- 40 % Stipulated Date of completion of Design Build- 21.06.2023	Sewerage Work:		
	Item	Scope	Progress
	STP (2 No.)	6.1 MLD at Gaushala (6.75 % physical progress) 3.8 MLD Near NH-11 (39.20 % physical progress)	6.1 MLD STP- SBR- PCC completed, TEER-Raft concrete completed. Work stopped by High Court stay order. Next hearing date 06.04.2022. 3.80 MLD STP – SBR: Casting of walls 5th lift completed. Center wall 5th lift completed. Casting & Shuttering for next wall is in progress. 97% Civil work completed. - TEER: Top Dome casting completed. Painting and Finishing work are under progress. 100% Civil work completed. - Admin Building: 1st floor brick work completed. 2nd floor Brick work & 1st floor Plaster work are under progress. - PTU: Wall Casting & Shuttering work is in progress. - Guard Room: Column casting & Shuttering work is in progress. - L&T is instructed to increase the manpower for speedup of works
	SPS (2 No.)	3.8 MLD BSNL Office (35.50% physical progress) 4.6 MLD near Main Ginani (20 % Physical progress)	3.8 MLD SPS, BSNL Office: SUMP: Top slab Casting completed and finishing work is in progress. 95% Civil work completed. - Ancillary Building: 1st floor Slab casting completed. Brick Work is under progress. Guard Room: - Slab Completed and Brick work is in progress. 4.60 MLD SPS: SUMP: 9th lift casting completed. Work

Contract description	Cumulative Progress of works up to 31.03.2022		
			is in progress. 65% Civil work completed. Metering Room: Column work is in progress. L&T is instructed to increase the manpower for speedup of works.
	Lateral sewer (upto dia 300)	145.317 KM	- Supply: 111.98 Km - Laid:- 88.23 Km - Hydro Testing: 80.34 Km
	Outfall RCC Pipe	1.82 KM	- Supply: -Nil - Laid: -Nil
	PVC-U pipe(110 & 160 mm dia)	143 KM	- Supply: -76.59km - Laid:-26.06 km
	Manholes (All types)	10173 Nos	Installation: 3929 Nos
	Inspection Chamber (A types)	14300 Nos	- Supply: 9387 Nos - Installation:-8517 Nos
	HDPE pipe (PE 100,PN 6) Trenchless	11.72 KM	- Supply: 10.477 Km - Laid: - 8.328 Km
	D.I K-9 Pipes (Pumping Main)	3.50 KM	- Supply: - 2.80 Km - Laid: 0.831 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: -9.177 Km - CC-23.090 Km - BT-46.603Km - Interlock -10.188 Km - Total -89.058 km	- Kuccha: -9.177 Km - CC-23.087 Km - BT-46.440Km - Interlock -10.186 Km - Total – 88.889 km	- Kuccha: -9.177 Km - CC-23.087 Km - BT-46.440 Km - Interlock -10.184 Km - Total -83.398 km
Building and Miscellaneous work			
	Item Description	Scope of Work	Progress made so far
	CRMC Building	2 Nos. (Near Nagar Palika & Ginani)	CRMC-1 (Nagara Palika): -Plinth beam completed, Columns and Brickwork for wall is under construction. Lintel & sun shade shuttering work is going on. L & T is instructed to speedup of works. CRMC-2: Land is identified but unavailability of EO, Nagar Palika, NOC from Nagar Palika is awaited.

Town: Laxmangarh

Contract description	Cumulative Progress of works up to 31.03.2022		
Package no - RSTDIP/RTG-FTP-LXG/01	Water Supply:		
	Item	Scope	Progress

Contract description	Cumulative Progress of works up to 31.03.2022		
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- 55.97 % Cumulative Physical Progress- 91.95% Stipulated Date of completion of Design Build- 21.06.2023	CWR	100 KL at AEn Campus	RCC work completed. Hydro testing work in progress. Fixing of sluice valve and inter connection work under progress.
		250 KL at Bad ke Balaji	RCC up to bottom of ring beam completed. Placing of reinforcement for beam/dome/stair under progress
	Distribution Network	150.303 KM	a) Supply: - 150.30 Km b) Laid: - 147.799 Km c) Hydro Testing: 90.77 Km d) Commissioning : NIL
	House Service Connection	12200 Nos	a) Laying/Installation: 7625 b) Testing: NIL c) Commissioning : NIL
	Domestic Water Meter	12200 Nos	a) Supply: 6250 Nos (15 mm siize) b) Installation: 107 Nos c) Testing: NIL d) Commissioning : NIL
	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.	-
	For Road Cutting & Restoration-		
Road cutting		Road restoration Base Layer	Road restoration Top Layer
• Kuccha: -91.87 Km • CC-53.550 Km • BT-0.774 Km • GSB/WMM: - 1.605 Km - Total -147.799 km		• Kuccha: -91.87 Km • PCC-51.899 Km • BT-0.774 Km • GSB/WMM:-1.605 Km - Total –146.15 km	• Kuccha: -91.87 Km • CC-51.665Km • BT- NIL • GSB/WMM:-1.605 Km • Total -145.14 km
Building and Miscellaneous work			
Item Description	Scope of Work	Progress made so far	
CRMC Building opp to EE office	1 nos.	All civil works completed. Finishing work under progress	
CRMC Building at AEn office	1 nos.	All civil works completed. Finishing work under progress	
MCC	1 Nos	i) Ground Floor: - All civil works completed. Finishing work under progress. ii) 1st Floor: - All civil works completed. Finishing work under progress.	

Town: Fatehpur

Contract description	Cumulative Progress of works up to 31.03.2022		
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- 53.51% Cumulative Physical Progress- 59.13% Stipulated Date of completion of Design Build- 21.06.2023	Sewerage Work:		
	Item	Scope	Progress
	STP (1 No.)	4.3 MLD at Nari Bari Road in existing STP Campus	SBR: - Civil work completed. Hydro test work is in progress. TEER: - Civil work with hydrotest completed. Admin building: - Ground floor finishing work is in progress; 1st floor roof slab shuttering work is in progress. PTU: - Civil work completed; hydrotest work is in progress. Metter Room: - Civil work completed. finishing work is in progress. Guard Room: - Raft completed, Column work is in progress.
	MPS	MPS for 4.3 MLD STP (Nari Bari Village Road in Existing STP Campus)	Wet well civil work completed. Inner civil work is in progress.
	SPS (3 No.)	3.5 MLD near dholi Sati Temple	Wet well: - Civil work completed. Guard & Metter room: - roof slab casting completed. Control panel Room: - Column work is in progress above plinth beam.
		0.60 MLD, Khasra no. 982, National Highway no. 52, Jahanghir ki kui	Wet well civil work completed. Guard room raft work is in progress.
		1.1 MLD Near Railway underpass (Khasra no. 1806)	Excavation work had been started, but it is stopped by local public due to dispute in site location. However, PIU/CMSC coordinating with DM- Sikar, DLB - Jaipur, SDM - Fatehpur, Nagar palika Fatehpur to solve the issue
	Lateral sewer (upto dia 250 mm)	93.494 Km	a) Supply: 88.060 Km b) Laid:-80.638 Km c) Testing: 80.638 Km d) Deflection Test: 68.137 Km e) Commissioning: NIL
	Outfall (above dia 315)	1.5 KM	a) Supply: NIL b) Laid:-NIL

Contract description	Cumulative Progress of works up to 31.03.2022		
			c) Testing: NIL d) Commissioning: NIL
	PVC-U pipe (110 & 160 mm dia)	66 KM	a) Supply: 35.568 Km b) Laid:-22.470 Km c) Testing: 22.470 d) Commissioning: NIL
	Manholes (All types)	7478 Nos	a) Supply: - Precast Manhole 3202 Nos b) Installation: - Precast manhole: - 2900 Nos Shallow Manhole: - 713 Nos. c) Testing: - 3520 Nos. d) Commissioning: - Nil
	Inspection Chamber (A types)	6600 Nos	a) Supply: -2701 Nos b) Installation: - 2113 Nos c) Testing: - 2113 Nos d) Commissioning: - Nil House terminal chamber: - 2804 Nos
	Population Benefitted due to commissioned	60000	-
	For Road Cutting & Restoration-		
	Road cutting	Road restoration Base Layer	Road restoration Top Layer
	- Kuccha: 52.529 Km - CC – 28.109 Km - BT – 0.00 Km - Interlock– 0.00 Km - Total: - 80.638 Km	- Kuccha: 52.529 Km - CC – 26.854 Km - BT – 0.00 Km - Interlock– 0.00 Km - Total: - 79.383 Km	- Kuccha: 52.529 Km - CC – 26.854 Km - BT – 0.00 Km - Interlock– 0.00 Km - Total: - 79.383 Km
	Building and Miscellaneous work		
	Building and Misc. Work		
	Item Description	Scope of Work	Progress made so far
	CRMC Building	1 Nos. (Nagar Palika)	Civil work completed. Procurement of furniture's is in progress
	CCC Building	-	NA
	MCC Building	-	NA
	PLC SCADA	-	NA
	Trenchless Work		
	HDPE Pipe	BOQ Qty 10.24 Km Revise Qty 13.09 Km	a) Supply: - 13.089 Km b) Laid: - 11.205 Km c) Testing: - 9.93 Km d) Commissioning: - Nil
	DI Pipe	5.95 Km	a) Supply: - 2.365 Km b) Laid: - 1.683 Km c) Testing: - 1.683 Nil d) Commissioning: Nil
	MS Pipe	60 meters	a) Supply: - Nil

			b) Laid: - Nil c) Testing: - Nil d) Commissioning: - Nil

Town: Sardarshahr

Contract description	Cumulative Progress of works up to 31.03.2022		
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 Sardarshahr (Churu). Name of Contractor- M/s- Larsen & Toubro Limited Contract type- Design, Build and Operate Date of Start- 22.06.2020 Cumulative Financial Progress- 33.64 % Cumulative Physical Progress- 53.96 %	Water Supply:		
	Item	Scope	Progress
	Total Distribution Network	250.75 km	-
	HDPE Pipe	190.01 Km SIP Scope-60.519 Extra Item-1.009	a) Supply: -182.74 km b) Laid: - 112.53 km c) Testing: - 95.15 km d) Commissioning: -NIL
	DI Pipe K7	10.379 km SIP scope- 11.981	a) Supply: - 7.087 km b) Laid: - km c) Hydro Testing: -km Commissioning: -NIL
	DI Pipe K9	2.100 Km SIP Scope-6.100 km	a) Supply: -1.677km b) Laid: - 0.649 km c) Hydro Testing: - NIL d) Commissioning: - NIL
	House Service Connection	22000 Nos SIP scope-22907	a) Laying/installation: -4466 nos b) Testing: - 4400 nos c) Commissioning:-NIL
	Domestic Water Meter	22000 Nos SIP scope-22907	a) Supply: - NIL b) Installation: - NIL c) Testing: - NIL d) Commissioning: - NIL
	Metering	EMFM-17 Nos	a) Supply: NIL b) Installation:-NIL c) Testing: NIL d) Commissioning: NIL
		BFM- 51 Nos.	a) Supply: NIL b) Installation:-NIL c) Testing: NIL d) Commissioning: NIL
	Pressure Transmitters	85 Nos.	a) Supply: NIL b) Installation:-NIL c) Testing: NIL d) Commissioning: NIL
	No. of DMAs	26 Nos.	-
	RWR	-	-
	WTP	-	-

Contract description	Cumulative Progress of works up to 31.03.2022		
Stipulated Date of completion of Design Build- 21.06.2023	Pump House	1 Nos. at PHED Campus	4th lift wall in progress. Work slow due to insufficient manpower. M/s L&T to increase manpower & resources to meet the targets
	CWR	1 No. (2400 KL PHED Campus)	Shuttering progress for slab beam & staircase 1st flight casted also 3no.valve chamber 2nd lift casted.
	OHSR	-	-
	Rehab Work (WTP,PH,CWR,OHSR etc)	Existing PH, CWR, in PHED Campus Surya mandir, Bharodhan, Holidora, Ramnagar	Refurbishment items to be Discussed with EE, PHED SRD before taking up the work.
	Population benefitted due to commissioned	1.09 lacs	
	Wastewater		
	STP (03 Nos.)	3.4 MLD at North Campus	TEER 540 KL:- Top dome casted. SBR:- Shuttering progress for walkway. PTU:- Columns in progress. Admin building:- Steel & shuttering progress of ground floor slab
		2.3 MLD at South Campus	TEER 730 KL:- Bottom dome, cone wall, balcony & bottom beam casted. SBR- Walkway in progress, stair case in progress. Admin building:- -1st floor slab completed & bricks Masonry work progress. PTU:- - Shuttering progress of slab, channel, grit separator etc.
		1.6 MLD at Gandhi Vidhya Mandir Campus	NOC accorded by PHED & Nagar Palika. Dismantling Estimate is being prepared for abundant structure which is to be submitted to PHED for approval.
	MWPS	1	Hydraulic calculations & GAD approved. Structural drawing to be submitted by L&T.
	SPS	2.3 MLD at Gaushala Land near BSNL Office	Excavation complete upto 6 mtrs. Sinking under progress.
		0.65 MLD at IGNP Guest House	Land allotment pending with IGNP Secretary level. 0.65 MLD SPS to be considered

Contract description	Cumulative Progress of works up to 31.03.2022		
			as 0.65 MWPS as per approved SIP.
	Lateral Sewer (upto dia 315)	51.789	a) Supply: 40.300km b) Laid:-31.564 km c) Testing: - 26.437 km d) Commissioning-NIL
	Outfall (above dia 315)	4.222 Km	a) Supply: 0.500 km b) Laid: 0.163 km c) Testing: NIL d) Commissioning-NIL
	PVC-U Pipe (110 & 160 mm dia)	76 Km	a) Supply: - 23.988 km b) Laid: - 8.70 km c) Testing: NIL d) Commissioning: -NIL
	Manholes (All types)	4319 Nos.	a) Supply: 1495 Nos b) Installation: - 1416 Nos c) Testing: - 1284 Nos d) Commissioning: -
	Inspection Chamber (All types)	7600	a) Supply: 1695 Nos b) Installation: - 1512 Nos c) Testing: - NIL d) Commissioning: - NIL
	Population benefitted due to commissioned	1.09 lacs	-
For Road Cutting & Restoration-			
Road cutting		Road restoration Base Layer	Road restoration Top Layer
• Kuccha: 54.05 Km • CC – 55.99 Km • BT – 2.49 Km • Interlock– 0.00 Km • Total= 112.53 Km		• Kuccha: - 54.05 Km • CC PCC – 47.44 Km • CC PCC – 6.99 Km by NP • BT (GSB/WMM) 2.49 Km • Interlock – 0.00 Km Total = 110.97 Km	• Kuccha: - 54.05 Km • CC PCC – 47.33 Km • CC PCC – 6.99 Km by NP • BT (GSB/WMM) 0.610 Km • Interlock – 0.00 Km Total= 108.98 Km
Building and Miscellaneous work			
Item Description	Scope of Work	Progress made so far	
CRMC -1	1. PHED Campus	• Structure Completed. Finishing work Stopped.	
CRMC -1	Inside Fire Fighting Station	• Architectural drawing approved. Structural drawing to be submitted.	
CCC Building (1 No.)	PHED Campus	• Structure Completed. Finishing work Stopped.	
MCC Building (1 No.)	PHED Campus	• Structure Completed. Finishing work Stopped.	
PLC SCADA	1 No.	-	
Trenchless Work			
HDPE Pipe	11.866 Km	a) Supply: - 9.58 Km b) Laid: - 3.434 Km c) Testing: - Nil d) Commissioning: -Nil	

Contract description	Cumulative Progress of works up to 31.03.2022		
	RCC Pipe	-	a) Supply: - Nil b) Laid: - Nil c) Testing: - Nil
	MS Pipe	-	a) Supply: -Nil b) Laid: -Nil c) Testing – NIL d) Comissioning – NIL

Town: Abu Road

Contract description	Cumulative Progress of works up to 31.03.2022		
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- 44.14 % Cumulative Physical Progress- 40.0 % Stipulated Date of completion of Design Build- 21.06.2024	Water Supply		
	Item	Scope	Progress
	HDPE Pipe	144.14 Km	a) Supply: 132.284 Km b) Laid: - 66.709 Km c) Testing: 65.39 km d) Commissioning: NIL
	DI Pipe K7	18.09 Km	a) Supply: 18.09 Km b) Laid: -0 c) Hydro Testing: NIL d) Commissioning: NIL
	DI Pipe K9 (Transmission Mains)	32.44Km	a) Supply: - 29.32 Km b) Laid: - 13.636Km c) Hydro Testing: 11.81 km d) Commissioning: NIL
	House Service Connection	12800 Nos	a) Laying/Installation: -3800 Nos. b) Testing: 3643 c) Commissioning: NIL
	Domestic Water Meter	12800 Nos	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
	Metering	EMFM-13 Nos	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
		BFM- 59 Nos.	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
	Pressure Transmitters	88 Nos.	a) Supply: NIL b) Installation: -NIL c) Testing: NIL d) Commissioning: NIL
	No. of DMAs	20 Nos.	-
	RWR	-	-
	WTP	1 No	Clariflocculator- 1 st lift wall casting completed Chemical & Filter House- Plinth beam concreting on progress Admin Building- Excavation completed Staff Quarters - Plaster in progress

Contract description	Cumulative Progress of works up to 31.03.2022		
			Guard room metering room - Complete .
	Pump House	5 No	GA P&ID layout approved
	CWR	5 No.	• Luniyapura CWR- 3rd lift in progress, PH wall casting in progress, chlorinator room and MCC column up to plinth level completed. • Santpur CWR- Sump wall final lift in progress. • Market Area CWR- Excavation in progress. • Housing Board CWR- Wall casting 3rd lift under progress. • Gandgi Nagar CWR- Excavation Completed .
	Intake	1	• Online forest permission application submitted to DFO, Forest department issued a letter regarding non forest land (NFL); For that identification of Non forest land is in progress with the help of local administration
	Wastewater		
	STP (02 Nos.)	6.9 MLD	SBR- wall 3rd lift completed and walk way is in progress PTU- Construction of inlet and fine screen chamber completed, grit mechanism is in progress Staff Quarter- Plastering in progress, Admin Building- 3rd slab casting completed, brick work for first and second floor is in progress. Guard Room & Metering Room- Completed. TEER- Column up to 5th brace Beam completed. MPS- 1st lift wall completed.
		2.3 MLD	SBR- Wall 3rd lift completed. PTU- Base slab on progress MPS- Excavation completed. Admin Building – first slab concreting completed. Second slab column shuttering in progress. Staff Quarter- Brickwork in progress Guard Room & Metering Room- Completed. TEER- Yet to be started Retaining wall- Plastering in progress

Contract description	Cumulative Progress of works up to 31.03.2022		
	DWC Pipes	86.95 Km	a) Supply: 82.23 Km b) Laid: -52.49 Km c) Testing: 50.92 Km d) Deflection Test: 33.00 km e) Commissioning: NIL
	RCC Pipes	3.49 Km	a) Supply: 0.87 km b) Laid: - 0.81 km c) Testing: NIL d) Commissioning: NIL
	PVC-U Pipe	130 Km	a) Supply: 93.516 Km b) Laid: - 20.257 Km c) Testing: 19.754 Km d) Commissioning: NIL
	Manholes (All types)	6887 Nos.	a) Supply: 4375 nos. b) Installation: -2063Nos. c) Testing: 1983 Nos. d) Commissioning: NIL
	Inspection Chamber (All types)	13000 Nos.	a) Supply: 5400 Km b) Installation: - 4212 Nos. c) Testing: 4071 nos. d) Commissioning: NIL
	Population benefitted due to commissioned	66016	
	For Road Cutting & Restoration-		
	Item Description	Scope of Work	Progress made so far
	Road Cutting	95.35 Km	• Kuccha/WMM: - 5.456 Km • CC-42.13 Km • BT- 3.10 Km
	Road Restoration	95.35 Km	• Kuccha/WMM: -4.7 Km (Only Kuccha) • CC Km (upto PCC-40.90 , Full CC-40.80 • BT Km (upto WMM)-3.03 km, Full BT-0
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	CRMC Building	1	Excavation Work Under Progress
	CCC Building	1	CCC Brick Work in process
	MCC Building	1	Plaster in progress
	PLC SCADA	11	Drawings under review
	Trenchless Work		
	HDPE Pipe	14.50 km	a) Supply: 13.88 Km b) Laid:- 7.59Km c) Testing: 5.6 Km d) Commissioning: NIL
	RCC Pipe	30 mtrs	a) Supply: NIL b) Laid:- NIL c) Testing: NIL

Contract description	Cumulative Progress of works up to 31.03.2022		
			d) Commissioning: NIL
	MS Pipe	210 mtrs	a) Supply: NIL b) Laid:- NIL c) Testing: NIL d) Commissioning: NIL

Town: Sirohi

Contract description	Cumulative Progress of works up to 31.03.2022		
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; alongwith Construction of Sewage Treatment Plant and 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- 35.64 % Cumulative Physical Progress- 39.0 % Stipulated Date of completion of Design Build- 21.06.2024	Water Supply		
	Item	Scope	Progress
	HDPE Pipe	118 Km	a) Supply:- 110.836 km b) Laid:- 63.406 km c) Testing:- 62.128 km d) Commissioning:- NIL
	DI Pipe K7	5.4 Km	a) Supply:- 5.00 km b) Laid:- 2.097 km c) Hydro Testing:- 1.800 km d) Commissioning:- Nil
	DI Pipe K9	36.76 Km (as per BOQ) Revised -29.92 Km	a) Supply:- 24.808 km b) Laid:- 17.343 km c) Hydro Testing:- 16.50 km d) Commissioning:- Nil
	House Service Connection	8900 Nos	a) Laying/install:- 2492 nos b) Testing:- 2492 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. Letter written to WRD for construction permission of intake well.
		3.90 MLD Intake well at Kalkaji	Source Deleted (As per revised scheme)
	WTP	9 MLD WTP at Angore	Staff quarter floor slab completed, MCC building 2nd roof slab shuttering work is in progress. Guard room & Metering room completed, Filter house

Contract description	Cumulative Progress of works up to 31.03.2022		
			raft casting work completed. Aerator column reinforcement work is in progress. Sludge storage yard column completed up to 3 mtr from GL. Chemical house footing reinforcement work is in progress.
	Pump House (2 Nos)	1. At Teen Batti 2. At Kalkaji 3. At Sardulpura	1. Teen Batti CWR-PH :- Land demarcation done. Tree cutting permission received and cutting work done at CWR & PH site. 2. Kalkaji CWR-PH :- CWR Pump house wall & raft reinforcement work is in progress and sump raft completed. 3. Sardulpura CWR-PH :- CWR Excavation completed and CWR & sump PCC work completed.
	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 :- Land demarcation done. Tree cutting permission received and cutting work done at CWR & PH site. 2. Kalkaji CWR-PH :- CWR Pump house wall & raft reinforcement work is in progress and sump raft completed. 3. Sardulpura CWR-PH :- CWR Excavation completed and CWR & sump PCC work completed.
	GLSR	Existing GLSR (3 Nos.) 1. 567 KL at Tankariya on hillocks 2. 400 KL at Bhatakhera on hillocks 3. 200 KL at Bhatakhera hillocks	-
		Proposed GLSR 1. 270 KL at Bhatakhera on hillocks 2. 580 KL at Tankeria on hillocks	-
	Tube well & Open Well	12 nos of existing tube wells and open wells 6 nos. of existing open well	12 Nos of existing Tube Well and Open Well 1. 06Nos of Existing Open Well 2. 06 Nosof Existing Tube Well

Contract description	Cumulative Progress of works up to 31.03.2022		
		2. 6 nos. of existing tube well	
	OHSR	Existing OHSR 2 nos of existing OHSR to be used 1. 200 KL capacity existing OHSR at RHB 2. 270 KL capacity existing OHSR at Sardulpura	2Nos Existing OHSR to be used.(as per revised scheme) 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 final lift wall & walk way reinforcement & shuttering work is in progress, TEER bottom dome beam shuttering work is in progress, Staff quarters brick work completed and plastering work is in progress. Admin building column 1st lift work is in progress.PTU column reinforcement work is in progress. MPS excavation is in progress and completed up to 5 mtr.
		1.7 MLD	STP (1.7 MLD):- PTU slab completed and TEER 2nd brace beam done and column reinforcement work is in progress. SBR completed, Staff quarters plaster completed. Admin building plinth beam completed, column reinforcement work is in progress. Excavation of MPS up to 8 mtr depth done. Boundary wall work completed.
	MPS	-	Excavation of MPS up to 8 mtr depth done work is in progress.
	SPS	-	-
	Lateral Sewer (upto dia 315)	88.76 Km	a) Supply:- 61.194 km b) Laid:- 37.683 km c) Testing: - 37.229 km d) Deflection test: - 37.229 km e) Commissioning:- Nil
	Outfall (above dia 315)	3.9 Km	a) Supply: - 1.600 km b) Laid: - 0.752 km c) Testing: - 0.720 km d) Commissioning:- Nil
	PVC-U Pipe (110 & 160 mm dia)	90 Km	a) Supply: - 49.973 km b) Laid: - 13.808 km c) Testing: - 13.494 km d) Commissioning:- Nil
	Manholes (All types)	5990	a) Supply:- 3017 nos b) Installation :- 1410 nos c) Testing: - 1410 nos

Contract description	Cumulative Progress of works up to 31.03.2022		
			d) Commissioning:- Nil
	Inspection Chamber (All types)	9000	a) Supply: - 4729 nos b) Installation :- 2350 nos c) Testing: - 2350 nos d) Commissioning: - Nil
	For Road Cutting & Restoration-		
	Item Description	Scope of Work	Progress made so far
	Road Cutting	Granular Course - 31585 cum BB- 20,980 cum BT -3170 cum	Kachha/WMM:- 55.750 CC:- 22.65 Km BT:-2.65 Km
	Road Restoration	Granular Course - 31585 cum BB- 20,980 cum BT -3170 cum	a) CC: 21.40 Km (upto PCC); 20.98 Km (upto CC) b) BT: 1.65 Km (upto WBM); 1.65 Km (upto BT) Kachha/WMM:- 55.750
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	CRMC Building	1	Plinth beam concreting work completed.
	CCC Building	1	Plinth beam concreting work completed.
	MCC Building	1	MCC building 2nd roof slab shuttering work is in progress.
	PLC SCADA	-	-
	Trenchless Work		
	HDPE Pipes	10.8 Km	A) Supply: - 9.069Km B) Laid: - 1.423 Km C) Testing: - 0.718 Km D) Commissioning:- Nil
	RCC Pipes	-	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL
	MS Pipes	-	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL

Town: Pratapgarh

Contract description	Cumulative Progress of works up to 31.03.2022		
Package no - RSTDIP/PRT/01 Works under package- Construction Works of Providing Sewer Network with House sewer connections along with	Wastewater		
	Item	Scope	Progress
	STP (1 nos.)	7 MLD	15.15% -Civil Work in Progress at (1) SBR (2) TEER (3) Admin Building (4) Staff Quarter (5) SHU (6) Sludge Thickener.
	MWP	0.1 MLD	17.01%- Civil Work in Progress at Sump well
	SPS	7 MLD	40.30% (80% Civil work completed)

Contract description	Cumulative Progress of works up to 31.03.2022		
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- 47.76 % Cumulative Physical Progress- 40.35 % Stipulated Date of completion - 01.11.2024	Lateral Sewer (upto dia 315)	93.745 Km	a) Supply: 87.132 Km b) Laid:-72.765 Km c) Testing: 72.500 Km d) Deflection Test: NIL e) Commissioning: NIL
	Outfall (above dia 315)	6.67 Km	a) Supply: 2.452 Km (RCC) b) Laid:-1.637 km c) Testing: 0.0 km d) Commissioning: NIL
	PVC-U Pipe (110 & 160 mm dia)	108 Km	a) Supply: 62.016 Km b) Laid:-37.835 km c) Testing: 36.710 km d) Commissioning: NIL
	Manholes (All types)	6884 Nos.	a) Supply: 3875nos b) Installation: 4074 Nos. c) Testing: NIL d) Commissioning: NIL
	Inspection Chamber (All types)	10800 Nos.	a) Supply: 8836 nos b) Installation:-7266 nos. c) Testing: 6100 d) Commissioning: NIL
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-36.664 Km • BT-29.312 Km • Kuccha/WMM: -7.417 Km • Interlock tiles: 0.782 km
Road Restoration		a) CC: Km b) BT: Km c) Kuchha: Km	a) CC: 34.900km (upto PCC) 34.490 km (upto CC) b) BT: 28.600 km (upto WMM) 25.825 km (upto BT) Kuccha- 7.417 Interlock tiles-0.782 km
Building and Miscellaneous work			
Item Description		Scope of Work	Progress made so far
CRMC Building-1		1	90%Physically Completed and commissioning to be done.
CRMC Building -2		1	55% civil work completed. Brick work in progress.
CCC Building		0	-
MCC Building		2	-
PLC SCADA		2	-
Trenchless Work			
HDPE Pipes		9.195 Km	a) Supply: 1.809 km b) Laid:-1.195 km c) Testing: NIL d) Commissioning: NIL
RCC Pipes		0.060 Km	a) Supply: NIL b) Laid:-NIL c) Testing: NIL

Contract description		Cumulative Progress of works up to 31.03.2022	
			d) Commissioning: NIL
	MS Pipes	NIL	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL
Contract description		Cumulative Progress of works up to 31.03.2022	
Town: Banswara			
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- 22.25 % Cumulative Physical Progress- 20.38 % Stipulated Date of completion – 31.01.2025	Water Supply		
	Item	Scope	Progress
	Total distribution network	338.690 km	-
	HDPE Pipe	44.220 km	a) Supply: - 129.282 km b) Laid: - 97.872 km c) Hydro Testing: - 69.00km d) Commissioning: - 0km
	DI Pipe K7	286.793 Km	a) Supply: - 7.952 km b) Laid: - 0.0 km c) Hydro Testing: - 0.0 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: - 7346 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 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 Camppus)	CLF-01. Clariflocculator Vertical wall 1st Lift Reinforcement Work and formwork is Under progress. Curing work is in progress. CLF-02. Clariflocculator Excavation Work in Progress.
	Pump House	1. At Existing AEn Campus 2. At Kagdi WTP Campus	-

Contract description	Cumulative Progress of works up to 31.03.2022		
	CWR	CWR-1550 KL (AEn Campus, PHED main campus)	-
	OHSR	-	-
	Rehab work (WTP,PH,CWR, OHSR etc.)	-	-
	Population benefitted due to commissioned	-	-
	Wastewater		
	STP (1 nos.)	9.60 MLD (existing STP Campus)	RAS (Return Activated Sludge Pump)/SAS (Sueplus Activated Sludge Pump) work is completed and SBR raft work is completed. SBR 3 rd Lift Reinforcement work and formwork is under progress. Staff Quarter Civil work is completed and Finishing work is under progress.
	SPS	SPS-1 : 0.60 MLD (Ward no. 21 near Nathelav Pond)	85% excavation work is completed.
		SPS-2: 1.7 MLD (Ward no. 1 near Pratapgarh Road)	50% excavation work is completed.
	Lateral Sewer (upto dia 300 HDPE-DWC)	Total = 81.559 KM	a) Supply: - 56.412 km b) Laid: - 49.110 km c) Testing: - 31.00 km d) Deflection test: 31.00 Km e) Commissioning-0 km
	Outfall (above dia 300 RCC NP4)	Total = 6.431 KM -	a) Supply: 0.925 km b) Laid: 0.359 km c) Testing: 0 Km d) Commissioning: -0 km
	PVC-U Pipe (110 & 160 mm dia)	138 Km	a) Supply: - 27.912 km b) Laid: - 21.603 km c) Testing: - NIL d) Commissioning: - NIL
	Manholes (All types)	6338 Nos.	a) Supply: 1859 nos b) Installation: -2216 Nos. c) Shallow manhole : 312 d) Testing: 0 Nos. e) Commissioning: 0 nos.
	Inspection Chamber (All types)	13800 Nos.	a) Supply: 4618 nos b) Installation: -4082 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:- 23.959 km b) BT: -23.742 km

Contract description	Cumulative Progress of works up to 31.03.2022		
			c) Kuccha/WMM: - 51.031 km • Interlock Tiles: - 3.995 km
	Road Restoration		a) CC: - (upto PCC):-23.900 km (upto CC):- 23.890 km b) BT: - Nil (upto WMM); 22.468 km Nil(upto BT):- 20.170 km c)Kuccha/WMM: - 52.031 km d)Interlock Tiles: - 3.995 km
	Building and Miscellaneous work		
	Item Description	Scope of Work	
	CRMC Building	3 Nos 1.) At AEN campus 2.) At Dahod Road (Khandu Colony) 3.) At Housing board colony	1. CRMC (AEN Campus)- Civil Work is Completed and finishing work is under progress. 2. CRMC (Khandu Colony)- Roof Slab is completed. Brickwork is under Progress. 3. CRMC (housing board)- Plinth Beam Work Completed Roof Slab Column work is under progress.
	CCC Building	1(At AEN campus)	Civil Work is Completed and finishing work is under progress
	MCC Building	1 at AEn Campus Building and Miscellaneous work	Civil Work is Completed and finishing work is under progress
	PLC SCADA	-	-
	Trenchless Work		
	HDPE Pipes	4.576 Km	a) Supply: 1.194km b) Laid:-0.181 km c) Testing: 0 km d) Commissioning: 0 km

Town: Kuchaman

Contract description	Cumulative Progress of works up to 31.03.2022		
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	Water Supply		
	Item	Scope	Progress
	Total distribution network	332.5km	-
	HDPE Pipe	327.7 km	a) Supply: 180.0 Km b) Laid:- 103.37 Km c) Testing: 54.477.164 Km d) Commissioning: 0.0 km
	DI Pipe K7	4.8 Km	a) Supply: 68.275 Km b) Laid: -16.991 km c) Hydro Testing: 0.0 km d) Commissioning: 0.0 km
	DI Pipe K9	11.34 km	a) Supply:0 Km

Contract description		Cumulative Progress of works up to 31.03.2022	
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- 15.13 % Cumulative Physical Progress- 21.71 % Stipulated Date of completion – 31.10.2024			b) Laid: -0 Km c) Hydro Testing: 0 Km d) Commissioning: 0 km
	House Service Connection	14900 Nos	a) Laying/Installation: -1555 Nos. b) Testing: 1227 Nos. c) Commissioning: 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	4 nos.	CWR3(920KI):- Excavation completed,PCC almost completed,Raft and 1 st lift of wall foundation completed binding of steel is in progress (30%) CWR (730 KI) :- Excaation completed Dressing of soil is in progress (10%)
	OHSR	-	-
	Rehab work (WTP,PH,CWR, OHSR etc.)	-	-
	Population benefitted due to commissioned	-	-
	Wastewater		
	STP (1 nos.)	7.60 MLD	10 % physical Progress - Excavation of teer and administrative blocks completed. - SBR and admin building PPC completed. - Binding of steel of staf and CC of raft footing for staff quarter completed. - Binding of in SBR is in progress.
	SPS	3.10 MLD 0.85 MLD	
	MPS		Excavation work is in progress
	SPS	3.10 MLD	

Contract description	Cumulative Progress of works up to 31.03.2022		
		0.85 MLD	
	Lateral Sewer (upto dia 315)	148.942 Km	a) Supply: 60.03 Km b) Laid:- 35.70 Km c) Testing: 23.907 Km d) Deflection Test:6.525 Km d) Commissioning: 0 km
	Outfall (above dia 315)	3.62 Km	a) Supply: 0 km b) Laid: - 0 km c) Testing: 0 km d) Commissioning: 0 km
	PVC-U Pipe (110 & 160 mm dia)	108.0 Km	a) Supply: 57.09Km b) Laid:-5.635 Km c) Testing: 0 Km d) Commissioning: NIL
	Manholes (All types)	10352 Nos.	a) Supply: 2100 nos b) Installation:-1550 Nos. c). Testing: 0 Nos. d) Commissioning: 0 nos.
	Inspection Chamber (All types)	10800 Nos.	a) Supply: 2500 nos b) Installation:-1385 Nos. c) Testing: 0 Nos. d) Commissioning: NIL
	Population benefitted due to commissioned	-	-
For Road Cutting & Restoration-			
Item Description		Scope of Work	Progress made so far
Road Cutting		a) CC: Km b) BT: Km c) Kuchha d) WMM: Km	• CC-9.77 Km • BT-3.90 Km • WMM: -Km • Kaccha: 92.81 km
Road Restoration		a) CC: Km b) BT: Km c) Kuchha d) WMM: Km	a) CC: 5.29 km (upto CC) 2 km (upto PCC) b) BT: 2.03km (upto WMM) 0 km (upto BT) c) WMM: 2.03 d) Kaccha: 92.61 km
Building and Miscellaneous work			
Item Description		Scope of Work	Progress made so far
CRMC Building		2	NIL
CCC Building		1	NIL
MCC Building		1	NIL
PLC SCADA		1	NIL
Trenchless Work			
HDPE Pipes		8.2 Km	a) Supply: 0 km b) Laid:-0 km c) Testing: NIL d) Commissioning: NIL
RCC Pipes		3.620 Km	a) Supply: NIL b) Laid:-NIL

Contract description		Cumulative Progress of works up to 31.03.2022	
			c) Testing: NIL d) Commissioning: NIL
	MS Pipes	NIL	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL
Contract description		Cumulative Progress of works up to 31.03.2022	
Town: Didwana			
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- 22.05% Cumulative Physical Progress- 29.41 % Stipulated Date of completion – 16.05.2024	Wastewater		
	Item	Scope	Progress
	STP	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 • Excavation and PCC work of SBR unit & PTU completed .Raft Reinforcement work in Progress.
	SPS	SPS-1: 1.7 MLD (Salt area)	Land has been allotted by Nagar Palika on 10 th Feb-22.The excavation of Boundary wall completed.Design & Drawing submitted on 23.02.2022 for approval and the same has been approved.
		SPS -2: 1.3 MLD (RSEB Campus)	S.E,RSVPNL issued vide letter no.123 on dated 28.10.2021 to EE,RUIDP,Makrana for amount calculation & deposit.Amount calculated by Tehsil office of rs 1569071 and the same was under process to approve in RVVNL.Lease Deed under process between RVVNL & revenue dept.
	Lateral Sewer (upto dia 315)	• 200mm (HDPE DWC SN8)- 1600mtr • 250mm (HDPE - 100/PN-6)-650mtr • 250mm (HDPE DWC SN8)- 48400mtr • 315mm(HDPE- 100/PN-6)-975 mtr	a) Supply: 200 mm (DWC): 42.708km 250 mm (DWC): 0.800 km b) Laying Laid:-32.99 Km (200 mm DWC) Laid: 0.660 Km (250mm DWC) c) Testing: 25.80 Km d) Deflection Test: 24.90 Km e) Commissioning: NIL
	Outfall (above dia 315)	• 350mm (RCC NP-4)-200 mtr	a) Supply: NIL b) Laid:-NIL

Contract description	Cumulative Progress of works up to 31.03.2022		
		• 400mm(HDPE-100/PN-6)-2525mtr • 900mm(RCCNp-4)-800 mtr	c) Testing: NIL d) Commissioning: NIL
	PVC-U Pipe (110 & 160 mm dia)	• 110mm-37490mtr • 160mm-6510 mtr	a) Supply: 19.992 Km (110 km) 1.992 km (160 Km) b) Laid:-6.399 km (110 mm) c) Testing: 3.03 km (110mm) d) Commissioning: NIL
	Manholes (All types)	4137 Nos.	a) Supply: 1484 nos b) Installation: 1317 Nos. c) Testing: 676 Nod d) Commissioning: NIL
	Inspection Chamber (All types)	4400 Nos.	a) Supply: 1441nos b) Installation:-1299 nos. c) Testing:690 d) Commissioning: NIL
	Population benefitted due to commissioned	36184	-
	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: 16.107 km b) BT: 5.698 km c) WBM : 0.447 km d) Kuccha: 10.627 km e) Interlocking Tiles: 0.778 km
	Road Restoration	a) CC: Km b) BT: Km c) Kuchha: Km	a) CC: 14.750 km (upto PCC) 14.596 km (upto CC) b) BT: 5.30 km (upto WBM) 1.820 km (upto BT) c) WBW: 0.447 Km d) Kaccha: 10.627 km e) Interlocking Tiles : 0.509 Km

Contract description	Cumulative Progress of works up to 31.03.2022		
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	CRMC Building	1	Roof Slab completed and Plaster work completed.
	CCC Building	-	-
	MCC Building	-	-
	PLC SCADA	-	-
	Trenchless Work		
	HDPE Pipes	• 250 mm(HDPE PE-100/PN-6)-6500 mtr. • 315mm(HDPE PE-100/PN-6)-975 mtr • 400mm(HDPE PE-100/PN-6)-2525 mtr	a) Supply: 4.510 Km (250,315,400 mm) b) Laid:- 3.220 Km (250mm HDPE) c) Laid: 0.384 Km (315 mm HDPE) c) Testing:2.30 Km d) Commissioning: NIL
	RCC Pipes	NIL	a) Supply: Km b) Laid:-Km c) Testing: Km d) Commissioning: Km
	MS Pipes	NIL	a) Supply:Meter b) Laid:-Meter c) Testing: Meter d) Commissioning: Meter
Contract description	Cumulative Progress of works up to 31.03.2022		
Town: Ladnu			
Package no - RSTDIP/LDN/01 Works under package- Construction Works of Providing Sewer Network with House sewer connections along with construction of Sewage Treatment Plant and all allied Works and operation services of the entire system for 10 years at Ladnu (Nagaur) Name of Contractor- M/s. Larsen & Turbo Limited Contract type- Design, Build and Operate Date of Start- 18.5 2021	Waste Water		
	Item	Scope	Progress
	STP (2 nos.)	5.5 MLD & 2.4 MLD	-
	Lateral Sewer (upto dia 315)	110.912 Km	a) Supply: 43.622 Km b) Laid:-14.608 Km c) Testing: 10.3 km d) Deflection Test: 0 km e) Commissioning: 0 km
	Outfall (above dia 315)	2.554 km	a) Supply: 0.675 km b) Laid:-0.020 km c) Testing: 0.0 km d) Commissioning: 0 km
	PVC-U Pipe (110 & 160 mm dia)	123.650 Km	a) Supply: 45.186 Km b) Laid:-5.187 km c) Testing: 0.0 km d) Commissioning: 0 km
	Manholes (All types)	8778 Nos.	a) Supply: 1104 nos b) Installation: 754 Nos c) Testing: NIL d) Commissioning: NIL
	Inspection Chamber (All types)	12365 Nos.	a) Supply: 1800 nos. b) Installation:-1374 nos. c) Testing: NIL d) Commissioning: NIL

Contract description		Cumulative Progress of works up to 31.03.2022		
Cumulative Financial Progress- 13.61 % Cumulative Physical Progress- 14.25% Stipulated Date of completion – 16.5.2024	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) CC5.995 km b) BT:0.654 km c) Kuccha/WMM:3.559 km d) CB:4.420 km (Total=14.628 km)	
	Road Restoration	a) CC: Km b) BT: Km c) Kuchha/WMM: Km	a) CC: 6.583 km (upto PCC) 4.478 km (upto CC) b) BT: 0.695 km (upto WBM) 0 km (upto BT) a) WBW/Kuccha: 3.559 km b) CB:1.761 km	
	Building and Miscellaneous work			
	Item Description	Scope of Work	Progress made so far	
	CRMC Building	2	1. Roof Slab Completed.Brick Work of Parapet wall under progress. 2. Shuttering and steel work in progress of Roof Slab.	
	CCC Building	0	-	
	MCC Building	0	-	
	PLC SCADA	1	-	
	Trenchless Work			
	HDPE Pipes	13.63 Km	a) Supply: 1.458 Km b) Laid:-NIL 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	
Contract description		Cumulative Progress of works up to 31.03.2022		
Town: Makrana				
Package no - RSTDIP/MKN /01 Works under package- Construction Works of Providing Sewer Network	Wastewater			
	Item	Scope	Progress	
	STP (01 No.)	7.7 MLD	• The BEP of STP approved • Architecture Drawing of Admin Building, Blower room,Sludge Dewatering room,Tonner &	

Contract description	Cumulative Progress of works up to 31.03.2022		
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- 17.93 % Cumulative Physical Progress 19.03 % Stipulated Date of completion – 16.5.2024			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. • PCC work of SBR & TEER completed & Reinforcement work of SBR is in Progress. Raft concrete work of TEER unit completed.
	SPS (02 Nos.)	SPS-1: 2.3 MLD (Jhalana Road)	The BEP submitted by Contractor on dated 22.02.2022. The Excavation of sump well and PCC work is completed.
		SPS-2: 1.80 MLD (Matabhar Road)	Designs & Drawings is in progress
	Lateral Sewer (upto dia 315)	• 200mm(HDPE DWC SN8)-78694mtr • 250mm (HDPE PE-100/PN-6)-8825 mtr • 250mm (HDPE DWC SN8)-1096 mtr • 315mm(HDPE PE-100/PN-6)-2001 mtr	a) Supply: 41.328 Km (200 mm DWC) b) 4.623 km (250 mm HDPE) c) 1.123 km (315mm HDPE) Laid Pipe Line:- a) Laid:-30.623 Km (200 mm DWC) b) Laid:4.466 Km(250mm HDPE) c) 1.115 Km (315mm HDPE) d) Testing:20.106 Km(DWC) e) Deflection test:16.118 km f) 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 • 1200mm(RCC NP-4)-500 mtr	a) Supply: 0.475 km(400 HDPE) b) Laid:- 0.240 km (400 mm HDPE) c) Testing: km d) Commissioning:
	PVC-U Pipe (110 & 160 mm dia)	• 110mm-78660mtr • 160mm-10340mtr	a) Supply: 53.694 Km (110 mm) 4.992 km(160 mm) b) Laid:- 5.872 km (110 mm) :- 0.345 km (160 mm) c) Testing: Km d) Commissioning: NIL
	Manholes (All types)	6806 Nos.	a) Supply: 2.091nos

Contract description	Cumulative Progress of works up to 31.03.2022		
			b) Installation: 1,295 Nos. c) Testing: 265 Nos. d) Commissioning: NIL
	Inspection Chamber (All types)	8900 Nos.	a) Supply: 1695 nos b) Installation:-1387 c) Testing: 245 Nos. d) Commissioning: NIL
	Population benefitted due to commissioned	53777	-
	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-6.235 Km • BT-1.903 Km • Kuccha/WMM: -22.485 Km
	Road Restoration	a) CC: Km b) BT: Km c) Kuchha/WMM: Km	a) CC:2.045 0.120 km (upto PCC) 2.045 km (upto CC) b) BT: 1.284 km (upto WMM) 0.0 km (upto BT) c) Kuccha/WMM: 22.485 km
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	CRMC Building	1	RCC and Brick Work completed.
	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)-784 mtr	a) Supply: 0 4.623 km (250mm HDPE) b) 1.123 km (315mm HDPE) c) 0.475 km (400 HDPE) d) Laid: -4.466 km (250mm HDPE) e) 1.115 km (315mm HDPE) f) 0.240 km (400mm HDPE) g) Testing: - NIL h) Commissioning: -NIL
	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
Contract description	Cumulative Progress of works up to 31.03.2022		

Contract description		Cumulative Progress of works up to 31.03.2022	
Town: Khetri			
Package no - RSTDIP/KTR/03 Works under package- Construction Works of Water Supply Production and Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply and Providing Sewer Network with House sewer connections along with construction of Sewage Treatment Plant and all allied Works and operation services of the entire system for 10 years at Khetri. Name of Contractor- M/s. Lahoty-LNA (JV), Jaipur Contract type- Design, Build and Operate Date of Start- 22.03.2021 Cumulative Financial Progress- 24.78 % Cumulative Physical Progress- 31.28 % Stipulated Date of completion – 20.03.2024	Water Supply		
	Item	Scope	Progress
	Total distribution network	50.38 km	a) Supply: 46.219 Km b) Laid:- 16.394 Km c) Testing: 3.185 Km d) Commissioning: 0.0 km
	HDPE Pipe (Dia. 20,25 & 32 mm)	22 km	a) Supply: 22 Km b) Laid:- 4.217 Km c) Testing: 0.0 Km d) Commissioning: 0.0 km
	DI Pipe K7	44.113 Km	a) Supply: 42.602 Km b) Laid:-14.494 km c) Hydro Testing: 3.185 km d) Commissioning: 0.0 km
	DI Pipe K9	4.265 km	a) Supply:3.689 Km b) Laid:-1.900 Km c) Hydro Testing: 0 Km d) Commissioning: 0 km
	House Service Connection	4400 Nos	a) Laying/Installation:-820 Nos. b) Testing: 0 Nos. c) Commissioning: NIL
	Domestic Water Meter	4400 Nos	a) Supply: Nos. b) Installation:-Nos c) Testing: Nos d) Commissioning: Nos.
	Metering	EMFM-17 nos.	a) Supply: Nos b) Installation:- Nos c) Testing: Nos d) Commissioning: Nos
		BFM – 13 nos.	a) Supply: Nos b) Installation:- Nos c) Testing: Nos d) Commissioning: Nos
	Pressure Transmitters	28 Nos.	a) Supply: Nos b) Installation: -Nos c) Testing: Nos d) Commissioning: Nos
	No. of DMAs	9 Nos.	-
	Pump House	2 nos.	-
	CWR (500 KI)	1 nos.	GAD,Layout & Structural Drawing are approved.Ist lift of suction pump & Main CWR wall casting is completed & 2 nd lift steel work completed & shuttering work in progress.
	Rehab work (WTP,PH, CWR, OHSR etc.)	OHSR/GLSR-07 nos.	
	Population benefitted due to commissioned	18917 souls	
	Wastewater		
	STP (1 nos.)	3.15 MLD	All type of work at TEER, MPS & SBR is stop at old provided land for STP

Contract description	Cumulative Progress of works up to 31.03.2022		
			due to Local body land issue.New Land proved very soon from ULB.
	Lateral Sewer (upto dia 315)	31.32 Km	a) Supply: 20.280 Km b) Laid:-10.025 Km c) Testing: 6.350 Km d) Deflection Test: 0 Km d) Commissioning: 0 km
	Outfall (above dia 315)	2.740 Km	a) Supply: 1.335 km b) Laid:- 0 km c) Testing: 0 km d) Commissioning: 0 km
	PVC-U Pipe (110 & 160 mm dia)	45.0 Km	a) Supply: 10.002 Km b) Laid:-2.265 Km c) Testing: 0 Km d) Commissioning: NIL
	Manholes (All types)	2231 Nos.	a) Supply: 617 nos b) Installation:-493 Nos. c).Testing: 374 Nos. d) Commissioning: 0 nos.
	Inspection Chamber (All types)	4500 Nos.	a) Supply: 597 nos b) Installation:-452 Nos. c) Testing: 0 Nos. d) Commissioning: 0 Nos.
	Population benefitted due to commissioned	18917 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-11.132 Km • BT-0.549 Km • Kuccha/WMM: -2.866 Km
Road Restoration	a) CC: Km b) BT: Km c) Kuchha: Km	a) CC: 7.118 km (upto PCC) 6.338 km (upto CC) b) BT: 0.0 km (upto WMM) 0.0 km (upto BT) c) Kuchha: 2.866 Km	
Remark	1.Road Cutting:-11.132 km of CC cutting is for water supply &sewer work.0.549 Km of BT cutting if for water supply work.2.866 km Kachha /WMM cutting for Water supply & sewer work. 2. Road Restoration :- 6.338 Km of water supply & sewer wotk and 1.120 km of water supply.		
Building and Miscellaneous work			
Item Description	Scope of Work	Progress made so far	
CRMC Building	1	GAD & Structural design/drawing are approved.Excavation,PCC,Footing and column up to GL are completed.Plinth filling has been done.Steel & Shuttering work is completed for plinth beam.	

Contract description	Cumulative Progress of works up to 31.03.2022		
	CCC Building	1	GAD & Structural design/drawing are approved.Excavation,PCC,Footing and column up to GL are completed.Plinth filling has been done.Steel & Shuttering work is completed for plinth beam.
	MCC Building	1	GAD & Structural design/drawing are approved.Foundation excavation in rock is under 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
Contract description	Cumulative Progress of works up to 31.03.2022		
Town: Mandawa			
Package no - RSTDIP/MDW/03 Works under package- Construction Works of Water Supply Production and Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply and Providing Sewer Network with House sewer connections along with construction of Sewage Treatment Plant and Sewerage Pumping Station : all allied Works and operation services of the entire system for 10 years at Mandawa. Name of Contractor- M/s. LNA-R & B (JV), Jaipur Contract type- Design, Build and Operate Date of Start- 22.03.2021	Water Supply		
	Item	Scope	Progress
	Total distribution network	116.82 km	a) Supply: 76.282 Km b) Laid:- 59.483 Km c) Testing: 34.058 Km d) Commissioning: 0.0 km
	HDPE Pipe (75 mm to 250 mm dia.)	108.40 km	a) Supply: 76.282 Km b) Laid:- 59.483 Km c) Testing: 34.058 Km d) Commissioning: 0.0 km
	DI Pipe K7 (100 mm to 350 mm)	6.62 Km	a) Supply: 0 Km b) Laid:-0 km c) Hydro Testing: 0.0 km d) Commissioning: 0.0 km
	DI Pipe K9 (100 mm to 150 mm dia)	1.89 km	a) Supply:0 Km b) Laid:-0 Km c) Hydro Testing: 0 Km d) Commissioning: 0 km
	House Service Connection	5400 Nos	a) Laying/Installation:-1076 Nos. b) Testing: 1012 Nos. c) Commissioning: NIL
	Domestic Water Meter	5400 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

Contract description		Cumulative Progress of works up to 31.03.2022	
Cumulative Financial Progress- 31.34 % Cumulative Physical Progress- 54.64 % Stipulated Date of completion – 20.03.2024			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
	CWR (500 KI)	1 nos.	-
	Rehab work (WTP,PH, CWR, OHSR etc.)	OHSR- 1 no. CWR – 0 nos. Pump House- 1 nos.	
	Population benefitted due to commissioned	25610 souls	
	Wastewater		
	STP (01 no.)	3.90MLD	GAD, Layout plan and flow diagram drawing are approved. Structure design/drawing of TEER are Approved.MPS structural drawing is approved. Vertical wall 5 th lift steel binding is in progress.
	SPS (0.40 MLD)	1 Nos	Structural design and drawing are approved. Column above plinth level is in progress.
	Lateral Sewer (upto dia 315)	47.4 Km	a) Supply: 28.794Km b) Laid:-24.442 Km c) Testing: 14.040 Km d) Deflection Test: 0 Km d) Commissioning: 0 km
	Outfall (RCC NP-4, 400 mm dia)	1.0 Km	a) Supply: 0 km b) Laid:- 0 km c) Testing: 0 km d) Commissioning: 0 km
	PVC-U Pipe (110 & 160 mm dia)	43.50 Km	a) Supply: 12.00 Km b) Laid:-2.772Km c) Testing: 0 Km d) Commissioning: NIL
	Manholes (All types)	3664 Nos.	a) Supply: 1089 nos b) Installation:-890 Nos. c).Testing: 802 Nos. d) Commissioning: 0 nos.
	Inspection Chamber (All types)	4350 Nos.	a) Supply: 1915 nos b) Installation:-689Nos. 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	• CC-18.465 Km • BT-0.215 Km

Contract description	Cumulative Progress of works up to 31.03.2022		
		c) Kuchha/WMM: Km	• Kuccha/WMM: -65.150 Km • Interlock tiles :-4.110
	Road Restoration	a) CC: Km b) BT: Km c) Kuchha: Km	a) CC: 15.970 km (upto PCC) 15.850km (upto CC) b) BT: 0.0 km (upto WBM) 0.0 km (upto BT) c) Kuccha: 65.150 km d) Interlock Tiles :-0.400 Km
	Remarks	Road Cutting: -9.100 Km of CC & 1.950 Km interlock tiles road cutting is for water supply & 9.365 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	Structural design and drawing are approved.Parapat wall of CRMC is in progress.
	CCC Building	1	
	MCC Building	1	
	PLC SCADA	1	-
	Trenchless Work		
	HDPE Pipes (PE-100 PN-6, 250 mm to 500 mm dia)	5.0 Km	a) Supply: 0 km b) Laid:-0 km c) Testing: 0 km d) Commissioning: 0 km
	RCC Pipes	0.0 Km	a) Supply: 0 km b) Laid:-0 km c) Testing: 0 km d) Commissioning: 0 km

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	WTP – 10 MLD near cremation

				headworks, behind ITI College, Santpur	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 Anore 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, Kalkaji
		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 reported in Draft IEE	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 (MWP) 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 any Change in scope of works	No any change in location		
9	Didwana	No any Change in scope of works		No any 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 any Change in scope of works		No any 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 any Change in scope of works		No any 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 is required in 1 STPs and permission received from Nagarpalika	Not required	Railway Crossing Permission received No NH/ Highway crossing is required	Labour License Valid up to 31/12/2022 WC Policy valid upto 30.03.2022	Not required	No Utility shifting is required up to this reporting period
2		Fatehpur Sewerage	Not required	No tree cutting is required	Not required	Applied for Railway crossing- Permission awaited Applied for National Highway (NH-11,NH-58) /State Highway (SH-41) crossing - Permission awaited	Labour License Valid up to 31/12/2021 Expired applied for the renewal WC Policy valid upto 31.03.2022	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
3		Laxmangarh Water Supply	Not required	4 tree cutting is required at CWR site at Bad Ke Balaji, PHED campus, permission is taken and attached in Appendix-3	Not required	No Permission required for Railway Crossing/National/ State Highway crossing	Labour License Valid up to 31/12/2021 Expired applied for the renewal WC Policy valid upto 30.03.2022	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	RSTDIP/SRD/01	Sardarshahar Water Supply and Sewerage	Not required	5 Trees cutting is required at CWR and CRMC site at PHED campus, permission is taken and attached in Appendix-3	Not required	Permission received for Railway crossing No NH/ Highway crossing is required	Labour License Valid up to 21/06/2023 WC Policy valid upto 30.03.2022	Not required	No Utility shifting is required up to this reporting period
5	RSTDIP/SHR-ABR/01	Abu Road Water Supply and Sewerage	Permission required for Intake well Construction and Transmission on main line (400mm Dia DI) - under process	Presently not required for any site except for pipe laying and intake at Bhainsa Singh Dam, which is covered under forest clearance	Not required	Applied for National Highway (NH-27) crossing (Licence fees&BG submission under process) and Railway crossing - Permissions awaited	Labour License Valid up to 31.12.2022 WC Policy valid upto 31.03.2022	Not required	LT line shifting permission got from the JdVVNL Aburoad
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	Not required	No National Highway crossing and Railway Crossing permission is required	Labour License Valid up to 31.12.2022 WC Policy valid upto 30.03.2022	Applied to PWD and Nagar Parishad for Road cutting – Permission awaited	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
				Thasildar office Sirohi					
7	RSTDIP/PRT/01	Pratapgarh Sewerage	Not required	1 tree at STP site and 3 trees at CRMC sites- permission is taken and attached in Appendix-3	Not required	Permission taken for National Highway crossing from NHAI. No Railway crossing is required	Labour License Valid up to 31.12.2022 WC Policy valid upto 24.11.2022	Road cutting permission for 3 roads received from PWD Road cutting Permission required for another road cutting is awaited from RSRDC	No Utility shifting is required up to this reporting period
8	RSTDIP/BNS/04	Banswara Water Supply and Sewerage	Not required	Not required	Not required	For NH, application is submitted & under process. And No Railway Crossing permission is required	Labour License Valid up to 31.12.2022 WC Policy valid upto 09.02.2024	BG deposited to get permission from PWD. Process is going on for RSRDC	No Utility shifting is required up to this reporting period
9	RSTDIP/KTR/03	Khetri Water Supply and Sewerage	Not required	Not required	Not required	There is State highway crossing. Prior Permission for the same shall be obtained from concerned department before start of work	Labour License Valid up to 31/12/2022 WC Policy- Valid up to 30-03-2022	Not required as all roads are municipal roads	At proposed site of 3.15 MLD STP site at PHED campus, shifting of electric pole is required.

S.N.	Package number	Name of Town and type of projects	Forest Clearance	Tree Cutting Permission	Permission from State/ National Archaeological dept.	Permission for NH/Highways/ Railways for crossing	Labor License of contractor And Workmen Compensation (WC) Policy	Permissions for Road Cutting	Permission for utility shifting
									Permission for the same has been obtained from AVVNL vide letter no.1985 dated 14.09.2021
10	RSTDIP/LDN-DID-MKN/01	Ladnu Sewerage	Not required	To be assessed after SIP	To be accessed during detail design	Presently Not required	Labour License Valid up to 31/12/2022 WC Policy-valid upto 30.03.2022	Not required	No Utility shifting is required up to this reporting period
11		Didwana Sewerage	Not required	Presently no tree cutting required	Not required	Presently Not required	Labour License Valid up to 31/12/2022 WC Policy-Valid up to 30-03-2022	Not required	No Utility shifting is required up to this reporting period
12		Makrana Sewerage	Not required	At STP site (7.7 MLD), around 130 Neem trees needed to be cut. Now the permission has been given by Municipal	Not required	Applied to get permission for railway crossing vide letter no. LTCD/WET/WW/S KS/LDN/2021-22/027 dated 18.09.2021	Labour License Valid up to 31/12/2022 WC Policy-Valid up to 30.03.2022	Applied to get permission for Road cutting – Permission awaited	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
				council, Makrana vide letter no. L/2021-22/3440 dated 16.12.21 for tree cutting and plantation of trees with its thrice capacity		Permission for SH crossing has been obtained from PWD vide letter no. PIU/PPP/Laxmang arh/MMB/Utility/21-22/D-601 dated 11.01.2022			
13	RSTDIP/KMN/1002	Kuchaman Water Supply and Sewerage	Not required	Presently no tree cutting required	Not required	Presently Not required	Labour License Valid up to 31/12/2022 WC Policy- Valid up to 31-03-2022	Not required	90mm dia AC line from 920 KL CWR at Jagdamba colony- contractor has been submitted application to PIU, Kuchaman vide letter no. LTCD/WET/WW/SNZ/KMN/2021-22/186 dated 01.12.2021

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
14	RSTDIP/MDW /03	Mandawa Water Supply and Sewerage	Not required	At 3.90 MLD STP site, 13 nos. of trees are needed to be cut, Application for the same has been submitted to the concerned department	Not required	Presently Not required	Labour License Valid up to 31/12/2022 WC Policy- Valid up to 03-03-2023	Not required	To be assessed after SIP

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	STP	WTP	Location	Status of CTE
New Construction					
1	Ratangarh	3.8 MLD		Johad	CTE issued and valid from 03.12.2020 to 30.11.2025 under Air Act and valid from 12.02.2021 to 31.01.2026 under Water Act.
2	Ratangarh	6.10 MLD		Near Gaushala	CTE issued and valid from 03/12/2020 to 30.11.2025 under Air Act and valid from 13.02.2021 to 30.01.2026 under Water Act
3	Fatehpur	4.3 MLD		Naribari village road	CTE issued and valid from 07/9/2020 to 31.08.2025 under Air Act and valid from 16.02.2021 to 31.01.2026 under Water Act.
4	Sardarshahar	2.30 MLD		STP South Campus	CTE issued for 2.3 and 3.4 MLD STPs and valid from 15.10.2020 to 30.09.2025 under Air Act and valid from 13.02.2021 to 31.01.2026 under Water Act
5	Sardarshahar	3.40 MLD		STP North Campus	
6	Sardarshahar	1.60 MLD		Near Ashok Circle in land of GVM	Land Allotment is in process and allotment is yet to be done
7	Abu Road	6.9 MLD		Santpur	CTE issued for 2.3 MLD and 6.9 MLD STP and 10 MLD WTP under Water Act and valid from 15.02.2021 to 31.01.2026
8	Abu Road	2.3 MLD		Manpur near Hawaii Patti	
9	Abu Road		10 MLD	Santpur PHED campus	
10	Sirohi	5 MLD		Near Nehru Nagar	CTE issued for 1.7 and 5.0 MLD STPs under Water Act and valid from 11.02.2021 to 31.01.2026
11	Sirohi	1.7 MLD		Near Revdar Road	
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 and Valid from 08.07.2021 to 30.06.2026
14	Banswara		9.25 MLD	PHED AEN Campus	CTE issued and valid from 17/11/2021 to 31/10/2026
15	Pratapgarh	7 MLD		Talabkhera	CTE issued and valid from 16/03/2021 to 28/02/2026
16	Didwana	3MLD		Near Mela Maidan	CTE issued and valid from 11.02.2021 to 31.03.2026
17	Kuchaman	7.6 MLD		Near Dashahara Ground	CTE issued and valid from 17.02.2021 to 31.01.2026

18	Ladnu	5.50 MLD		Asota Village	CTE issued and valid from 27.01.2021 to 31.12.2025
19	Ladnu	2.4 MLD ⁴		Vishwanathpura	CTE for 2.4 MLD STP is on hold due to land issue
20	Makrana	7.70 MLD		Existing campus of STP	CTE issued and valid from 08.02.2021 to 31.01.2026
21	Khetri	3.15 MLD		Near Kharia kua	CTE issued and valid from 17.02.2021 to 31.01.2026
22	Mandawa	3.9 MLD		Bissau Road	CTE issued and valid from 16.02.2021 to 31.01.2026
Upgradation/Rehabilitation works					
23	Sardarshahar	5 MLD WSP		South campus	Design is finalized and CTE is under process
24	Sardarshahar	2 MLD WSP		North Campus	Design is finalized and CTE is under process
25	Banswara		6.75 MLD	WTP at Kagdi Pickup weir	Shall be applied after design is finalized
26	Banswara		10.40 MLD	AEN Campus	Shall be applied after design is finalized
27	Banswara	6.34 MLD WSP		Udaipur Road	Shall be applied after design is finalized

⁴ Original capacity of STP at Ladnu is 2.4 MLD, in last report it was mentioned as 3.5 MLD, which was due to typographical mistake.

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
	That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.	To be complied- Adequate measures such as dense plantations around STPs shall be taken to avoid foul odour during treatment and disposal of sewage and sludge before start of operation of STPs
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	Noted and shall be complied if there is any change in project cost- presently not applicable

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
	project proponent shall be liable to deposit balance amount	
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, Abhu Road	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs.2536 lacs and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
	That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 585 KVA	Application for DG set under Air Act shall be done before installation of DG set- presently DG set is not being installed
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	Noted and shall be complied if there is any change in project cost- presently not applicable

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
	project proponent shall be liable to deposit balance amount	
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 of any increase in the project cost, the project proponent shall be liable to deposit balance amount	Noted and shall be complied if there is any change in project cost- presently not applicable
	That Project Proponent shall apply for Consent to Establish under Air(Prevention	Application for DG set under Air Act shall be done before installation of DG set- presently DG set is not being installed

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
	& Control of Pollution), Act, 1981 for D.G. Set of 365 KVA	
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
	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

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
	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
	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	Noted and shall be complied with

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

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
	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 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.	Complied- contractor has planted 50 trees in STP campus of Sardarshahar Only 2 trees cut till date 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 by December 2021
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:	Being complied- all Subprojects are selected and approved in accordance with the agreed Subproject Selection Criteria	Nil
	(a) All Subprojects are selected and approved in accordance with the agreed Subproject Selection Criteria and approval process stipulated in the PAM;		
	(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 award contracts for of	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:	Being Complied- all works are awarded after draft IEEs are approved by ADB, IEEs are being updated as per approved designs	Nil
	(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;		
	(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 condition 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.	Will be Complied after construction is completed	Shall be complied after completion of physical works
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
	(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	Inform to ADB about any breach of EMP, RP or RIPP

Section	Loan Covenants	Compliance Status	Action Required
		the relevant EMP, the RP or RIPP (as applicable) shall be reported to ADB	
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 any 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 Banswara, Mandawa, Khetri, Makrana, Kuchaman, Didwana & Ladnu towns. coming days. 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, documents checking 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 contractors and approved. Contractors are following mitigation measures as per SEMP and EMP at project sites.

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

ENVIRONMENTAL MONITORING TABLES

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

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

Table 9A: Design Phase

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
Sewerage Treatment Plant- Odour nuisance and aesthetics: - Provide a green buffer zone of 10-20 m wide all around the STP, and 5-10 m around SPSs, with trees in multi-rows. This will act as a visual screen around the facility and will improve the aesthetic appearance. Treated wastewater shall be used for plantation. - Develop layout plan of STP such that odour generating units (such as sludge / solids handling facilities are located away from the surrounding area with future development potential.	- Buffer zone provided around STP with dense tree plantations - STP layout	C	C	NA	C	C	C	C	C	C	C	BC	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 but - Tree cutting permission - Compensatory plantations	C	C	NA	C	C	C	C	C	C	C	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	BC	BC	BC	BC	NA	BC	BC	BC	BC	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	• C • BC* • C	• C • BC* • C	• C • BC* • C	• C • BC* • C	• C • BC* • C	• C • BC* • C	• C • BC* • C	• BC • BC* • BC	• BC • BC* • BC	• BC • BC* • BC	• BC • BC* • BC	DBO Contract or/ PIU/ CMSC/P MCBC

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

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
source characteristics duly considering the seasonal variation in quality if any • Duly consider quality of ground water that will be supplemented for surface water supply variations • Treated water and supplied water at consumer end should meet the drinking water standards all times	• Treated water quality test reports															
Water Treatment Plant (WTP) - Design to prevent pollution due to waste water and sludge: • Ensure that the following are included in the WTP design: • Back wash water reuse system and sludge recovery and disposal system • Back water cycling components: Filter backwash holding tank, recovered water storage tank and pumping for recycling • Sludge management system components: Gravity thickeners for sludge from clarifiers, mechanical sludge dewatering system, storage facility for dewater desludge • Disposal of sludge at a landfill or the disposal site provided by the ULB	• Design of WTP including back wash water recycle • Sludge management from WTP	NA	NA	NA	NA	BC	BC	NA	BC	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 even to major leakages • Eye wash and shower facility • Personal protection and safety equipment for the operators (masks, oxygen cylinders, gloves, etc.,) • Provide training to the staff in safe handling and application of chemicals, material safety, and standard operating procedures and emergency responses • Develop emergency response procedures	• 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	BC	BC	BC	BC	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	BC	BC	BC	BC	NA	BC	BC	BC	BC	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	BC	BC	BC	BC	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	BC	BC	BC	BC	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	BC	BC	BC	BC	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* - BC	- BC* - BC	- BC* - BC	- BC* - BC	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	TC	TC	C	C	TC	TC	TC	TC	Contract or/PIU *Reuse plan for treated effluent is being prepared for the towns in consultation with ULBs # Will be done during Operation phase of the project.
Sewage Treatment Plant (STP)/WTP- Sludge management and reuse: - Prepare a sludge management plan - Prepare a dried Sludge utilization plan for Town with the help of Agriculture Department / CLC; plan should also include if any additional processing is required for sludge to use as soil conditioner - Plan should clearly identify various potential uses and demand in Town and surroundings - Establish usage limits, where required, (geographical /	Reuse plan for treated sludge	BC*	BC*	NA	BC*	BC*	BC*	BC*	BC*	BC*	BC*	BC*	BC*	BC*	BC*	DBO Contract or/PIU *Reuse plan for treated Sludge is being prepared for the towns in

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility	
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN		
crops / type of application / type of soils etc.); adopt international good practice suggested by agencies like World Health Organization (WHO), Food and Agricultural Organization (FAO) of the United Nations. - Identify a landfill / suitable site for disposal of surplus dried sludge - Monitor sludge quality during operation phase as per the Environmental Monitoring Plan, ensure that it meets the quality parameters established by FCO - In case of sludge not meeting the quality parameters, it shall not be used as soil condition, and shall be disposed at appropriate disposal site (if it falls under hazardous category, it shall be disposed as per the Hazardous Waste Management Rules, 2016)																consultation with ULBs	
Sewage pumping stations - Handling and disposal of accumulated waste at identified disposal sites: - Prepare a waste handling and management plan for the work, considering handling, disposal and occupational and public health safety - Assess the working conditions, develop appropriate working method, and work shall be only conducted under continuous supervision of EHS supervisor - Waste shall not be handled manually; use appropriate equipment - All workers shall be provided with necessary personal protection equipment, including gloves, boots, face / gas masks and oxygen cylinders in handy for emergency use etc.; if gas emission is suspected at any point of time, workers shall use gas masks with oxygen cylinders - Inform surrounding public about the work - Fire control and safety equipment shall be provided at the work site - Waste shall be properly covered during transport - Manage the solid waste as per the Solid Waste Management Rules, 2016	Waste Management Plan as per Solid Waste Management Rules 2016	BC	BC	NA	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	BC	BC	BC	BC	BC	BC	BC	BC	BC	TC	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	TC (Designing under process)	TC (Designing under process)	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	BC	BC	NA	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contract or

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

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
identification of hazards, the use of proper safety gear and disposal methods. • Maintain records of AC pipes as per the AMP • Refer to the instructions of the Asbestos Expert																
Asbestos materials in existing PHED campus- Health impacts due to air borne asbestos if handled unsafely, cut, drilled or broken into pieces: • Conduct risk assessment to determine extent of asbestos materials currently on-site • Coordinate and provide support to the asbestos management service provider on the requirement of sampling, testing and disposing existing asbestos materials • Ensure the selected area for temporary storage is suitable for safe storage of asbestos materials • Incorporate international and national standards considered in designing the temporary storage • Ensure that handling and disposal of asbestos materials are carried out by specially trained service provider/s following Government of India requirements, or in their absence, internationally recognized procedures	• ACM plan covering all these requirements	NA	NA	BC	BC	BC	BC	NA	BC	BC	BC	BC	NA	NA	NA	DBO Contract or/PMU
Preparation of plans and protocols - Various impacts: • Preparation of waste handling and management plan for SPS sites • Prepare traffic management plan • Prepare occupational health and safety plan • Prepare spoils management plan	• Site Specific Environment, Health and Safety plan, covering all these plans	C	C	C	C	C	C	C	BC	C	C	BC	BC	BC	BC	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 construction works • Ensure that all necessary approvals for	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 to be obtained by contractor are in place before start of construction • Following consents are required- • Tree cutting-local authority • Storage, handling and transport of hazardous materials- RSPCB • Sand mining, quarries, borrow areas- Department of mines and Geology • Traffic diversion/road cutting- local authority, traffic police • Acknowledge in writing and provide report on compliance all obtained consents, permits, clearance, NOCs etc. Include in detailed design drawings and documents all conditions and provisions; if necessary																
Utilities - Telephone lines, electric poles and wires, water lines within proposed project area: • Identify and include locations and operators of these utilities in the detailed design documents to prevent unnecessary disruption of services during construction phase; and • Require construction contractors to prepare a contingency plan to include actions to be taken in case of unintentional interruption of services. • Require contractors to prepare spoils management plan	• List of affected utilities • Utilities contingency plan • Spoil management plan	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO Contractor in collaboration with PIU and with approval of PMU
Social and Cultural Resources - Ground disturbance can uncover and damage archaeological and historical remains: Develop a protocol for use by the construction contractors in conducting any excavation work, to ensure that any chance finds are recognized, and measures are taken to ensure they are protected and conserved	Chance finds protocol	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO Contractor/ CMSC and PIU
Construction work camps, hot mix plants, stockpile areas, storage areas, and disposal areas.- Disruption to traffic flow and sensitive receptors: • Prioritize areas within or nearest possible vacant space in the project location; • If it is deemed necessary to locate elsewhere, consider sites that will not promote instability and result in destruction of property, vegetation, irrigation, and drinking water supply systems; • Do not consider residential areas; • Take extreme care in selecting sites to avoid direct disposal to water body which will inconvenience the community. • For excess spoil disposal, ensure o site shall be selected preferably from barren, infertile lands. In case agricultural land needs to be selected, written consent from landowners (not lessees) will be obtained; (b) debris disposal site shall be at least 200 m	• 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	TC	TC	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	
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	TC	TC	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 • Coordinate and implement the the construction of the temporary storage per specification of the	ACM plan covering all these requirements	NA	NA	BC	BC	BC	BC	NA	BC	BC	BC	BC	NA	NA	NA	DBO Contractor/PIU/ CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MNW	KMN	DID	MKR	LDN	
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- Complied, 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 barricading and security personnel • Fit all heavy equipment and machinery with air	• 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	C	C	C	C	C	C	C	C	C	C	C	C	C	C	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	
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 • Install temporary silt traps or sedimentation basins along the drainage leading to the water bodies;	• Spoils management plan • Stockpiling of soils • Inspection of drainage pattern at stockyard • Monsoon preparedness plan • Emergency preparedness plan	C	C	C	C	C	C	C	C	C	C	C	C	C	C	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	
- Place storage areas for fuels and lubricants away from any drainage leading to water bodies; - Dispose any wastes generated by construction activities in designated sites; and - Conduct surface quality inspection according to the Environmental Management Plan (EMP).																
Surface water quality - Degradation of water quality of Angore, Kalka Ji and Bhainsa Singh dams due to intake works: - Select a construction methodology that is least disturbing, and appropriate for the in-situ soil condition, and able to complete the construction work prior to onset of monsoon - Schedule the construction works during low water level period – late winter months to pre monsoon (February – June/July); ensure that works are completed during the same period to prior to onset of monsoon; - Erect temporary barriers to form enclosed construction area with least disturbance - Allow adequate time to settle the distributed solids to prior to pumping out water; only clear/clarified water shall be pumped back into the reservoir; any silt laden water should be pumped to a silt pond - Avoid/minimize use of fuels, chemicals and lubricants; ensure no spillage - Clear the work site after completion at least to pre project conditions, ensure that there are no materials, debris, spills etc., and prior to removal of temporary barriers / coffer dam - Implement work site safety at works in water bodies	- Construction work plan - Work schedule - Safety arrangements - Water quality monitoring	NA	NA	NA	NA	TC	TC	NA	BC	NA	NA	NA	NA	NA	NA	DBO contractor/ PIU/ CMSC/ PMCBC
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. - Periodical monitoring of noise quality as per EMP	- Use of PPEs to reduce impact of sound on workers - Checking of vehicle silencers, noise-reducing mufflers - Noise quality monitoring at sites	C	C	C	C	C	C	C	C	C	C	C	C	C	C	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	
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	C	C	C	C	C	C	BC	BC	C	C	C	C	C	C	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	C	C	C	C	C	C	C	C	C	C	C	C	C	TC	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	TC	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	C	C	C	C	C	C	C	C	C	C	C	C	C	TC	DBO Contractor/ PIU/ CMSC
Accessibility - Traffic problems and conflicts near project locations and haul road: • Plan sewer line works to minimize traffic disturbance / blockades; as the sewer lines are to be laid in all the roads and streets in the town, work planning is crucial to minimize the inconvenience to public. • Prepare and implement a Traffic Management Plan • Duly consider and select sections for trenchless method of pipe laying based on traffic conditions • Plan transportation routes so that heavy vehicles do not use narrow local roads, except in the	• 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	
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	TC	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	TC	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 - First aid facilities at site	C	C	C	C	C	C	C	C	C	C	C	C	C	C	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 Guidelinesⁱ⁵ 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	• Site protection and barricades • Medical and health insurance of workers • Health check-up records of workers • Safety trainings/ orientations records • Solid waste management • Site observations															

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)														Responsibility	
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN		
workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuring to fellow workers; • Provide visitor orientation if visitors to the site can gain access to areas where hazardous conditions or substances may be present. Ensure also that visitor/s do not enter hazard areas unescorted; • Ensure the visibility of workers through their use of high visibility vests when working in or walking through heavy equipment operating areas; • Ensure moving equipment is outfitted with audible back-up alarms; • Mark and provide sign boards for hazardous areas such as energized electrical devices and lines, service rooms housing high voltage equipment, and areas for storage and disposal. Signage shall be in accordance with international standards and be well known to, and easily understood by workers, visitors, and the general public as appropriate; • Disallow worker exposure to noise level greater than 85 dB A for a duration of more than 8 hours per day without hearing protection. The use of hearing protection shall be enforced actively. • Conduct regular health check-ups for workers • Provide periodical awareness camps and special trainings for workers for health issues and risks in construction sites • Provide proper solid and liquid waste management system in workers' campsite, separate from spoils and debris disposal, as their presence can add to existing waste volume at the project sites.																	
Occupational and community health and safety - Hazardous working conditions due to presence of asbestos containing material / AC Pipes in work sites: clearing, transfer and disposal; work in narrow streets, and interventions in existing AC pipelines Health impacts due to air borne asbestos if handled unsafely, cut, drilled or broken into pieces: • Implement the ACM Management Plan (AMP) that includes identification of hazards, the use of proper safety gear and disposal methods. • Conduct awareness program on safety during the construction work • Undertake the construction work stretch-wise; excavation, pipe laying and trench refilling should be completed on the same day • Provide barricades, and deploy security personnel to ensure safe movement of people and also to prevent unnecessary entry and to avoid accidental fall into open trenches • Identifv risk of intervention with existina AC pipes.	• 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	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			
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	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	TC	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. 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, sheds, and construction plants; - Minimize removal of vegetation and disallow cutting	- Approval of site from PIU - Tree cutting for camps - Facilities for workers e.g. ventilated rooms, first aid, crèche, cooking areas, toilet and washing facility	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	
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.	• 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
		C	C	C	C	C	C	C	C	C	C	C	C	C	C	
		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 excavation works (pipe laying) during monsoon season to avoid any water logging and accident due to it	• Monsoon preparedness plan • Emergency response 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	
- 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																
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
		BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	
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	TC (Pre Con. Phase)	TC (Pre Con. Phase)	TC (Pre Con. Phase)	TC ((Pre Con. Phase)	DBO Contractor

C- Complied, 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 layout 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 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 (No such issue is reported and STP Location Finalized).	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	Design of Intake is under approval. 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		
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	BC BC	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	BC (during detail design of intake well)	
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	BC	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 C C C C BC	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		C	•
Construction of CRMC at Nagar Palika Office Campus - Disturbance to public and staff visiting/working in Nagar Palika office, traffic disturbance and safety risks (In Ratangarh and Pratapgarh): - No worker camps should be constructed at CRMC site - Proper barricades and signage should be provided at site - No noisy works and transportation of construction materials/plying of heavy vehicles at/near site during office working hours should be ensured - Removal of extraneous materials from site up to end of day should be ensured - provide proper toilets for workers at site - Avoid tree cutting and if tree cutting is necessary compensatory plantation should be done as per RUIDP policy - Provide dedicated power supply at site, if possible, otherwise DG set to be used during power failure, should be soundproof and having acoustic enclosures with low/permitted air emission standards	- Work plan - Design approval - Site safety including signage, barricades, project information boards - Removal of extraneous materials on same day - Tree cutting - Noise level monitoring during construction works	C	DBO Contractor

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

No.	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 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	Updated IEE Approved by ADB and uploaded on ADB in Nov., 2021. website link shared.
	Fatehpur Sewerage Works	Detail Design under process	✓				Yes	Updated IEE Approved by ADB and uploaded on ADB in Nov., 2021. website link shared.
	Laxmangarh Water Supply Works	Detail Design under process	✓				Yes	Updated IEE Approved by ADB and uploaded on ADB in Nov., 2021. website link shared.
RSTDIP/SRD/01	Sardarshahar Water Supply and Sewerage Works	Detail Design under process	✓				Yes	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	Updated IEE Approved by ADB and uploaded on ADB in Nov., 2021. website link shared.
	Abu Road Water Supply and Sewerage Works	Detail Design under process	✓				Yes	Updated IEE Approved by ADB and uploaded on ADB in Nov., 2021. website link shared.
RSTDIP/PRT/01	Pratapgarh Sewerage Works	Detail Design under process	✓				Yes	Updated IEE Approved by ADB in Sept., 2021 and uploaded on ADB website link shared
RSTDIP/BNS/04	Banswara Water Supply and Sewerage Works	Detail Design under process	✓				Yes	IEE Approved by ADB in May., 2020 and uploaded on ADB website link shared

Package Number	Components	Design Status (Preliminary Design Stage/Detailed Design Completed)	Final IEE based on Detailed Design				Site-specific EMP (or Construction EMP) approved by Project Manager? (Yes/No)	Remarks
			Not yet due (detailed design not yet completed)	Submitted to ADB (Provide Date of Submission)	Disclosed on project website (Provide Link)	Final IEE provided to Contractor/s (Yes/No)		
RSTDIP/KTR/03	Khetri Water Supply and Sewerage Works	Detail Design under process	✓				Yes	IEE Approved by ADB in May., 2020 and uploaded on ADB website link shared
RSTDIP/MDW/03	Mandawa Water Supply and Sewerage Works	Detail Design under process	✓				Yes	IEE Approved by ADB in May., 2020 and uploaded on ADB website link shared
RSTDIP/KMN/02	Kuchaman Sewerage Works	Detail Design under process	✓				Yes	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	IEE Approved by ADB in May 2020 and uploaded on ADB website
RSTDIP/LDN-DID-MKN/01	Didwana Sewerage Works	Detail Design under process	✓				Yes	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	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/for/details.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 Management.** 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 consultant's 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 PM ₁₀ 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 PM _{2.5} 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 Ambient Air Quality and ADB SPS's Standards in Respect of Noise

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

Area code	Category of area/zone	NAAQS Limit in dB (A)		ADB SPS 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 of 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}	PM _{2.5} sampler (e.g. Envirotech APM 154)	Collection of particulate matter on filter papers and gravimetric analysis	As per CPCB guidelines
3	SO _x	Respirable Dust Sampler with gaseous attachment (e.g. Envirotech APM 460BL), UV/VIS spectrophotometer	Absorption of a gases in liquid absorbent and analysis by improved West and Geike	IS 5182 (part 2): 2001
4	NO _x	Respirable Dust Sampler with gaseous attachment (e.g. Envirotech APM 460BL), UV/VIS spectrophotometer	Absorption of a gases in liquid absorbent and analysis by Modified Jacob and Hochheiser (Na-arsenite)	IS 5182 (part VI):2006
5	CO	Single Gas Analyser (CO meter)	Detection method	IS 5182 (part 10): 1999
Noise Quality				
6	Noise Level (Day time and night time)	Noise level meter (Envirotech SLM 100)	Instrumental	IS 9989
Water Quality				
7	pH	pH meter	Instrumental	IS:3025 (part 11): 2002
8	Turbidity	Manual Grab Sampling in Sterilized Sample collection bottle and lab analysis	Gravimetric Analysis	IS:3025 (part 10): 1984
9	Total Suspended Solids (TSS)	-do-	Gravimetric Analysis	IS:3025 (part 15): 1984
10	Total Dissolved Solids (TDS)	-do-	Gravimetric Analysis	IS:3025 (part 16): 2006
11	Total Hardness as CaCO ₃	-do-	Qualitative Analysis	IS:3025 (part 21): 2009
12	Chloride as Cl	-do-	Qualitative Analysis	IS:3025 (part 32): 2003
13	Sulphate as SO ₄	-do-	Qualitative Analysis	IS:3025 (part 24): 2003
14	Iron as Fe	-do-	Qualitative Analysis	IS:3025 (part 53): 2003
15	Fluoride as F	-do-	Qualitative Analysis	IS:3025 (part 60): 2008
16	Zinc as Zn	-do-	Qualitative Analysis	IS:3025 (part 49): 1994
17	Copper as Cu	-do-	Qualitative Analysis	IS:3025 (part 42): 1992
18	Manganese as Mn	-do-	Qualitative Analysis	IS:3025 (part 59): 2006
19	Mercury as Hg	-do-	Qualitative Analysis	IS:3025 (part 48): 1994
20	Cadmium	-do-	Qualitative Analysis	IS:3025 (part 41): 1992
21	Chromium as Cr	-do-	Qualitative Analysis	IS:3025 (part 52): 2003

S.No.	Parameter of monitoring	Equipment used	Methodology	Protocol of test
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
28	Total Alkalinity 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; Pre construction (Baseline) environmental monitoring was conducted in 6 towns (Kuchaman, Ladnu, Didwana, Khetri, Mandawa & Makrana) whereas Construction phase environmental monitoring (quarterly) was conducted in 8 towns (Abu Road, Sirohi, Banswara, Pratapgarh, Sardarshahar, Ratangarh, Khetri, Mandawa) during reporting period. Results of environmental monitorings (baseline and periodical) during reporting period in all 14 towns are given in Appendix 10. Summary of environmental monitoring conducted during reporting period is given below in Table -20.

Table 20: Summary of environmental monitoring conducted under RSTDSP during October 2021 to March 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.	Abu Road	Construction	Air Quality, Noise Quality, Ground Water Quality, Drinking water and Soil quality	20.11.2021 to 21.11.2021	- Sewer Network Talhati - Manpur Workman colony - Santpur STP & WTP	Air quality monitoring conducted at 3 locations and results are within national standards for all parameters in all locations, whereas PM₁₀ (90.25, 74.16 and 77.25 µg/m³) and PM_{2.5} (48.10, 32.40 and 37.10 µg/m³) values in all 3 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 3 locations and day time results range from 56.10 to 59.25 dBA. In all 3 locations results are not higher than national standards as well as ADB SPS recommended standards for residential areas. At 3 locations, Night time results (44.92 dBA, 44.12 dBA and 46.25 dBA) are higher than national standards and ADB SPS limits.
2.	Pratapgarh	Construction	Air Quality, Noise Quality, Ground Water Quality, Soil Quality	22-10-2021 & 21.02.2022 to 24.02.2022	- Sidhi Vinayak nagar, Housing Board - Bhatpura Darwaza, Bagwas, Manpura - At Sewage Treatment Plant - Gopalganj, Near SPS site, RMC plant	Air quality monitoring conducted at 3 locations in Feb.2022 and results are within national standards for all parameters in all locations, whereas PM₁₀ (81.12, 83.70 and 78.24 µg/m³) and PM_{2.5} (37.55, 40.16 and 37.65 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 Feb 2022 at 3 locations and day time results range from 57.5 to 59.2 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 46.9 dBA to 50.1 dBA which are higher than both the standards i.e. national standards and ADB SPS limits. Air quality monitoring conducted at 3 locations in Oct.2021 and results are within national standards for all parameters in all locations, whereas PM₁₀ (86.42, 79.63 and 83.62 µg/m³) and PM_{2.5} (44.25, 38.52 and 40.42 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 Oct 2021 at 3 locations and day time results range from 54.2 to 63.4 dBA. In all 3 locations 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
						standards for residential areas. On the other hand, Night time results ranges from 45.8 dBA to 49.8dBA which are higher than both the standards i.e. national standards and ADB SPS limits.
3.	Sirohi	Construction	Air Quality, Noise Quality, Ground Water Quality	10.03.2022 to 11.03.2022 (For air & Noise) and 10.03.2022 (for Surface Water, Ground Quality and Soil Quality)	• Work Man Habitat & 5.0 MLD STP • Near 1.7 MLD STP • Vaidnath colony WTP 9 MLD (At Angore PHED Campus) • Angore Dam, and Labour Colony/ Workman Camp	Air quality monitoring conducted at 4 locations and results are within national standards for all parameters in all locations, whereas PM₁₀ (71.84, 65.27, 70.45, and 62.58 µg/m³) and PM_{2.5} (28.61, 27.19, 26.68 and 26.34 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 and day time results range from 57.84 to 61.35 dBA. In all 4 locations results are higher than national standards as well as ADB SPS recommended standards for residential areas.
4.	Banswara	Construction	Air Quality, Noise Quality, Ground Water Quality, Surface water Quality	15.11.2021 to 17.11.2021	• WTP-AEN (PHED) Campus • Kagdi Site/Intake • STP Site • SPS At Nathelav pond • SPS at Pratapgarh Road • Custom Chauraha	Air quality monitoring conducted at 6 locations and results are within national standards for all parameters in all locations, whereas PM₁₀ (from 58.4 to 86.1 µg/m³ and PM_{2.5} (from 24.5 to 48.7 µg/m³) values in all 6 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 6 locations. Day time results ranges from 48 to 72 dBA and night time results ranges from 41 to 66 dBA. Results show that at 5 locations Day time and One location night time results are higher than the national standards as well as ADB SPS recommended standards for residential areas. Only at one location at Kagdi Site, day time (48 dBA) and FIVE locations at night time results are within prescribed limits as per both standards for residential area.

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
5.	Ratangarh	Construction	Air Quality, Noise Quality, Ground Water Quality, Drinking water, Soil Quality	16.03.2022 to 24.03.2022	- Near Mangalam Medical/PMO Hospital - SPS 3.8 MLD, Ratangarh - Ginani, SPS 4.6 MLD - STP 3.8 MLD, Ratangarh - Labour Camp	Air quality monitoring conducted at 5 locations and results are within national standards for all parameters in all 5 locations, whereas PM₁₀ (ranges from 76.38 to 82.36 µg/m³ and PM_{2.5} (ranges from 36.27 to 41.62 µg/m³) values in all 5 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 5 locations. Day time results ranges from 48.5 to 64.7 dBA and night time results ranges from 35.7 to 41.2 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 2 locations i.e. SPS 3.8 MLD(64.7 dBA) and STP 3.8 MLD (63.1 dBA) whereas during night time results are within prescribed limits as per both standards for residential area at all 5 locations.
6	Khetri	Construction	Air Quality, Noise Quality, Ground Water Quality, Soil Quality	25.10.2021 to 26.10.2021	- Near UP Koshadhikari Office - Near Old PHED office - Near Ajeet Govt. Hospital - Near JEN Staff Colony - In Jai Singh Govt. School - Near ITI College/STP proposed site - Near Prashashanik Bhawan	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 64.78 to 78.62 µg/m³ and PM_{2.5} (ranges from 35.45 to 40.32 µg/m³) values in all 7 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 7 locations. Day time results ranges from 51.7 to 58.7 dBA and night time results ranges from 40.3 to 47.3 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 locations (except Near Ajeet Govt. School – 51.7 dBA) whereas during night time at 3 locations i.e. Near Ajeet Govt. Hospital (40.3 dBA), In Jai Singh Govt. School (42.3 dBA) and at Near Prashashanik Bhawan (41.5 dBA), results were within prescribed limit as per both standards and at remaining 3 locations results (ranges from 40.3 dBA to 42.3 dBA) were higher than the national standards as well as ADB SPS recommended standards for residential areas.

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
				21.02.2022 to 22.02.2022	- Near UP Koshadhikari Office - Near Old PHED office - Near Ajeet Govt. Hospital - Near JEN Staff Colony - In Jai Singh Govt. School - Near ITI College/STP proposed site - Near Prashashanik Bhawan	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 from 33.30 to 39.20 µg/m³) values in all 7 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 7 locations. Day time results ranges from 56.4 to 60.0 dBA and night time results ranges from 41.1 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 all locations (except Near Ajeet Govt. School – 56.4 dBA) whereas during night time at 3 locations i.e. Near Ajeet Govt. Hospital (45.1 dBA), In Jai Singh Govt. School (41.1 dBA) and at Near Prashashanik Bhawan (42.2 dBA), results were within prescribed limit as per both standards and at remaining 3 locations results (ranges from 41.1 dBA to 45.1 dBA) were higher than the national standards as well as ADB SPS recommended standards for residential areas.
7	Mandawa	Construction	Air Quality, Noise Quality, Ground Water Quality, Soil Quality	28.01.2022 to 29.01.2022	- SPS-1 (PHED) Campus beside SPS Site - CWR Site-1 - STP Site-1 - Pipe laying site within the preferably near sensitive receptor-1	Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM₁₀ (ranges from 71.45. to 78.21 µg/m³ and PM 2.5 (ranges from 27.28 to 30.16µg/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 49.44 to 55.14 dBA and night time results ranges from 39.87 to 43.48 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.
8	Sardarsha har	Construction	Air Quality, Noise Quality, Water quality and Soil Quality	25.10.2021 to 26.10.2021	STP-1 (2.30 MLD) South Campus	Air quality monitoring conducted at 5 locations and all results are within national standards for all parameters in all 5 locations. PM₁₀ (ranges from 76.0 to 86.11 µg/m³ and PM 2.5 (ranges from 29.14 to 38.72 µg/m³).PM₁₀ and PM_{2.5} values in all 5 locations are more than

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
				05.03.2022 to 08.03.2022	- PHED Campus-CWR (2400 KL) & PH at Hanumangarh Road - STP-2 (3.40 MLD) North Campus - Ramnagar Sullage Pipeline Zone 3 - Near Meena ka Kawa Guest House Zone 4B	applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 5 locations. Day time results ranges from 42.56 to 53.26 dBA and night time results ranges from 38.16 to 49.61 dBA. Results show that during day time, results are within the prescribed limits of national standards as well as ADB SPS recommended standards for residential areas at 5 locations whereas during night time at one location i.e. near Meena ka Kawa Guest House, Zone 4-B, result were higher than the ADB SPS recommended standards for residential areas except this, night time results are within prescribed limits as per both standards for residential area at remaining 4 locations.
9	Kuchaman	Construction	Air Quality, Noise Quality, Soil Quality	30.12.2021 to 02.01.2022	- RUIDP Office (Near SPS-02) - Rama Memorial School - Near STP (Bus Stand) - Old CWR, Near PHED Office - Store Area	Air quality monitoring conducted at 5 locations and all results are within national standards for all parameters in all 5 locations. PM₁₀ (ranges from 71 to 95 µg/m³ and PM 2.5 (ranges from 36 to 47 µg/m³). PM₁₀ and PM_{2.5} values in all 5 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 5 locations. Day time results ranges from 38.2 to 75.1 dBA and night time results ranges from 37.1 to 59.0 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 5 locations (except BSNL Office near SPS-01) whereas during night time results are within prescribed limits as per both standards for residential area at all 5 locations.
10	Ladnu	Construction	Air Quality, Noise Quality, Water quality and Soil Quality	29.01.2022 to 31.01.2022	- STP-1, Ladnu - STP-2, Ladnu - Pipe Laying Site-1	Air quality monitoring conducted at 3 locations and all results are within national standards for all parameters in all 3 locations. PM₁₀ (ranges from 79.0 to 88.0 µg/m³ and PM 2.5 (ranges from 30.0 to 46.0 µg/m³). PM₁₀ and PM_{2.5} values in all 3 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 3 locations. Day time results ranges from 37.6 to 74.6 dBA and night time results ranges from 36.2 to 64.2 dBA. Results show that during day time, noise quality results were higher

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
						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 2 locations i.e. STP-1 and Pipe Laying site-1 results are higher than the national standards as well as ADB SPS recommended standards for residential areas
11	Makrana	Construction	Air Quality, Noise Quality, Water quality and Soil Quality	25.01.2022 to 27.01.2022	• STP-1, Ladnu • STP-2, Ladnu • Pipe Laying Site 01 • SPS site -1	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 71.0 to 83.0 µg/m ³ and PM 2.5 (ranges from 32 to 42 µg/m ³). PM ₁₀ 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 38.6 to 73.3 dBA and night time results ranges from 36.5 to 62.5 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 are within prescribed limits as per both standards for residential area at all 4 locations.
12	Didwana	Construction	Air Quality, Noise Quality, Water quality and Soil Quality	27.01.2022 to 29.01.2022	• STP-1 • SPS-2, Near Power House • Pipe Laying Site-1 • SPS-1, Near Temple	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 69.0 to 89.0 µg/m ³ and PM 2.5 (ranges from 26.0 to 41.0 µg/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 37.9 to 74.2 dBA and night time results ranges from 36.4 to 62.6 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 except one location i.e. Pipe Laying site -1, all results are within prescribed limits as per both standards for residential area at remaining 4 locations.
13	Fatehpur	Construction	Air Quality, Noise Quality, Water quality and Soil Quality	28.09.2021 to 30.09.2021	• STP 4.3 MLD • SPS 3.5 MLD Dholi sati Temple • Aksa Masjid Zone-2 • SPS 1.1 MLD Near Railway Underpass • Salasar Road Zone	Air quality monitoring conducted at 5 locations and all results are within national standards for all parameters in all 5 locations. PM ₁₀ (ranges from 73.67 to 78.11 µg/m ³ and PM 2.5 (ranges from 31.29 to 34.62 µg/m ³). All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 5 locations. Day time results ranges from 53.61 to 57.13 dBA and night time results ranges from 42.57 to 46.98 dBA. Results show that during day & night time, noise quality results were

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						higher than the national standards as well as ADB SPS recommended standards for residential areas at 2 locations whereas 3 location all results are within prescribed limits as per both standards for residential area.
14	Laxmangarh	Construction	Air Quality, Noise Quality, Water quality and Soil Quality	04.11.2021 to 10.11.2021	• PHED A. En Campus • Bad ke Balaji PHED campus • Murali Monohar Mandir (Zone 2 & 5) • Power House (Zone 4 & 8) • Workmen Camp • Ex En Campus Laxmangarh	Air quality monitoring conducted at 6 locations and all results are within national standards for all parameters in all 6 locations. PM10 (ranges from 71.54 to 94.18 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 34.72 to 43.17 $\mu\text{g}/\text{m}^3$). All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 6 locations. Day time results ranges from 52.89 to 58.22 dBA and night time results ranges from 42.66 to 46.94 dBA. Results show that during day & night time, noise quality results were higher than the national standards as well as ADB SPS recommended standards for residential areas at 2 locations whereas 4 location all results are within prescribed limits as per both standards for residential area.

24. In Kuchaman, Ladnu, Makrana Didwana towns; environmental monitoring has been conducted for as per the Schedule these results are taken as baseline environmental qualities of these towns. Quarterly environmental monitoring is proposed in RSTDSP, which shall be reported through SEMRs to ADB.

8. ASBESTOS MANAGEMENT

25. 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.

26. 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.

27. 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 the subproject towns will be updated in next SEMR. As pipe laying works are presently being done in outskirts/new areas of the towns, where there are no existing water supply networks and therefore there is neither a chance of encounter with Asbestos pipes nor any ACM is reported at pipe laying sites. Contractors have already been made aware of hazards of ACM during pre-construction stage trainings in all towns.

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

28. During reporting period environmental safeguard experts of PMCBC and CMSCs visited different sites for monitoring of contractors' environmental safeguard compliances in different sites. Environmental Site visit checklists are given in **Appendix 4** and detail site visit reports are given in **Appendix 12**. A summary of visit 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	Town: Sirohi Person visited the Site: Dr. Mahaveer Saini, Environment Professional, CMSC-II, Dr. Dinesh Periwal, Team Leader, CMSC-II and Mr. V.B.Patil (Senior Quantity Surveyor, CMSC-II) Location: 1. Sewerage pipe laying and Man Hole works sites and 2. 1.7 MLD STP at Revdar Road 3. Labour Camp at 5 MLD STP site. Date of site Visit: 05.10.2021	- Improper Barricades;having no reflector on barricades and no diversion and warning signage boards at site. - A Vehicle (JCB Machine) was not able to produce necessary documents like PUC, RC, Fitness Certificate, Insurance at site. Improper water supply arrangements at mobile toilet and at Labor camp at 5 MLD STP site. 1	Proper barricades and diversion Signage were Provided at work site on roads.Project information board at excavation site along with contact details of PIU/contractor for grievances redressal provided. - The use of this machine discontinued and no vehicle without valid necessary documents allowed at any work site. Valid PUC, RC, Fitness Certificate, Insurance for the vehicle were produced by contractor for the JCB machine referred (Compliance report attached). - Proper water supply arrangements done.
2	Town: Abu Road Person visited the Site: Dr. Mahaveer Saini, Environment Professional, CMSC-II, Dr. Dinesh Periwal, Team Leader, CMSC-II and Mr. V.B.Patil (Senior Quantity Surveyor, CMSC-II) Location: 1. 2.3 MLD STP at Mandpur, 2. 6.9 MLD STP at Santapur 3. Sewerage pipe laying site.	6.9 MLD STP at Santapur - Improper Barricades around the excavated area and solid waste material (Plastic,Tarpal, garbage) was scattered entire the site Labour Camp at Santapur - Improper Solid waste material (plastic, garbage etc.) was observed. - No water connection was observed in kitchens of labour camp.	6.9 MLD STP at Santapur - Proper barricades as per specification were provided. Dustbins for solid waste collection provided, proper housekeeping ensured at site. Labour Camp - Contractor has cleaned the site. - Contractor has provided alternative source water for kitchens.

	Date of site Visit: 06.10.2021	Pipe laying site Road side drains were choked & blocked from excavated material along the pipe laying site in Purani Housing Board Colony.	Pipe laying site Contractor has cleaned the drains
3	Town: Kuchaman Person visited the Site: Mr. Vardan Srivastava, Environment professional & Mani Kumar, Safeguard Support (Environment & Safety), CMSC-I Location: 1. Zone 1: Balaji Vihar Colony; Kuchaman 2. In Zone 5: Pareek Colony Date of site Visit: 03.12.2021	1. Site labours working without respiratory Nose mask and Safety hand gloves, Safety Stewert of contractor shall emphasise on various safety measures at all the time during work 2. Labour left Personal Protective Equipment's (PPE's) at site during lunch break. 3. Excavated loose soil dumped on the edge of excavated area of water line. 7. DCW water pipe line dumped at site without proper stacking on flat surface without proper covering of tarpaulin. First Aid box and drinking water facility was not available at site	1. Safeguard Orientation to EHS personnel of contractor, Site Engineer, and workers was provided on 05.03.2022 in Kuchaman town by ES Professionel of CMSC-1. (Refer report 6 of appendix 4 and Appendix 1, site visit photographs). 2 PPEs management during lunch break assured and proper training was provided to EHS personnel of contractor. 3. Excavated soil placed at 1 m distance from excavated edge area, the same is ensured. 7. It was ensured that all useful material will be placed at suitable storage area with proper flat surface area with proper coverage of tarpaulin.
4	Town: Ratangarh Person visited the Site: Dr. Mahaveer Saini, Environment Professional, CMSC-II Mr Raghuveer Dayal Garg (Executive Engineer PIU Ratangarh), Mr. Prakash Jha (ACM-CMSC-2, Ratangarh), Mr. V.B. Patil (Senior Quantity Surveyor cum Acting TL of CMSC-2, Jodhpur), Mr. Rajeev Sharma (Social Safeguard Expert, CMSC-2, Jodhpur) Location: 1. 3.8 MLD STP site on Old NH-11 and 2. Truck line laying site Date of site Visit: 21.12.2021	3.8 MLD STP site on Old NH-11 - Project Information was observed at STP Site - Board and Ambulance were Present at STP Site - Diesel Leakage was observed near the generator at STP Site - First aid box was available at site officer in STP campus. - Improper water and sanitation facilities at toilets in labour camp at 3.8 MLD STP. Trunk line laying site - Proper barricading was missing at temporary closing of road traffic at excavation site of trunk line. No diversion route plan was showed on sign board.	3.8 MLD STP site on Old NH-11 - Good practice at working site. - Contractor arranged proper water and sanitation facilities at labour camp. Trunk line laying site Proper barricading has been arranged at truck line excavation site. Diversion route plan erected.

5	Town: Makrana Person visited the Site: Mr. Vardan Srivastava, Environment professional & Mani Kumar, Safeguard Support (Environment & Safety), CMSC-I Location: Zone 4; Manglana Highway & Vasundra Nagar; Sewerage Laid work Date of site Visit: 22.12.2021	1. Site labours working without respiratory Nose masks and Safety hand gloves 2 Site Labour working at the site without safety shoes & Safety hand gloves and absence of respiratory Nose mask. 3. Road is fully blocked but no any cautionary signage provided for road users and nearby habitants	1. Workers provided with respiratory Nose masks to prevent respiratory disease and workers equipped with all personal protective equipment (PPE's) while working at the site. 2. Safeguard Orientation to EHS personnel of contractor, Site Engineer, and workers was provided on the same day 22.12.2021 to resolve the issues in Makrana town by ES Professionel of CMSC-1. Refer report 1 of appendix 4 and Appendix 1, site visit photographs). A followup visit was again done in 05.03.2022. 3. Cautionary signage, Diversion , signage etc. as Provided.
6	Town: SardarShahar Person visited the Site: Dr. Mahaveer Saini, Environment Professional, CMSC-II Mr. V.B. Patil (Senior Quantity Surveyor cum Acting TL of CMSC-2, Jodhpur), Mr. Rajeev Sharma (Social Safeguard Expert, CMSC- 2, Jodhpur) Location: 3.8 MLD STP site on Old NH-11 and Truck line laying site 2.3 MLD STP in South Campus of Gaushala, 3.4 MLD STP in North Campus of Gaushala, 2.3 CWR and CRMC Building in PHED Campus, 2.3 MLD SPS site, Date of site Visit: 23.12.2021	3.4 MLD STP in North Campus of Gaushala - Sign boards for First Aid Box and drinking water facility are in proper way. - First Aid Box is observed at site. - Safety belt with proper climbing was observed with worker working at hight on TESR. - Working passes for working at high are observed. - Electrical wires observed at water curing site of STP that may become cause of electrical hazard. 2.3 MLD STP in South Campus of Gaushala, - Soil sediments are observed in the drinking water tank. - Oil leakage is observed near store of STP Campus. CWR and CRMC Building in PHED Campus - Excavated soil from CWR is stored near the site. - Mobile Toilet near the CWR location is not working	3.4 MLD STP in North Campus of Gaushala - Good Practice of construction. - Open electrical wires have been removed from the site, immediately. 2.3 MLD STP in South Campus of Gaushala, - Constructor has cleaned the tap water tank and ensured cleaning the tank on regulary regular basis. - Contractor has removed the oil drum and contaaminated soil from the site. CWR and CRMC Building in PHED Campus - Good practice of soil conservation. - Contractor has repaired and improved the water supply

		condition and no alternative toilet is available for women.	facilities at toilets and provided alternative toilet to women workers.
7	Town: Fatehpur Person visited the Site: Dr. Mahaveer Saini, Environment Professional, CMSC-II Mr. V.B. Patil (Senior Quantity Surveyor cum Acting TL of CMSC-2, Jodhpur), Mr. Rajeev Sharma (Social Safeguard Expert, CMSC-2, Jodhpur). Location: SPS Site Behind Dholi Sati Temple, and Proposed site for reuse of treated effluent. Date of site Visit: 23.12.2021.	SPS Site Behind Dholi Sati Temple • Project Information is available at site but there is no helpline number on information board. • Proper barricading is absent around it	SPS Site Behind Dholi Sati Temple • Barricading around the excavation site is provided.
8	Town: Mandawa Person visited the Site: Mr. Vardan Srivastava, Environment professional & Mani Kumar, Safeguard Support (Environment & Safety), CMSC-I Location: 1. STP (3.9 MLD) at Bisau Road; Works of MPS raft reinforcement binding work has been completed; Mandawa 2. 200 mm DWC sewer pipe laying and manhole works at Ward no. 5, 18 and 23 Date of site Visit: 09.02.2022	1. Batching plant is being established at STP site, but no Consent to Establish (CTE) 2. Male workers were seen using proper PPEs, whereas female workers were not using safety shoes and helmets 3. During consultation with nearby habitants, it was noted that SOT of contractor has given project information to habitants before start of work in this location, but during construction no consultations done and people were making complaints 4. Improper Baricating	1. CTE obtained. 2. Safeguard Orientation to EHS personnel of contractor, safety training to contractor site staff, Site Engineer, and workers was provided on same day; 09.02.2022 in Mandawa town by ES Professional of CMSC-1 to ensure the use of PPEs and to generate awareness among the workers for safety. Refer report 7 of appendix 4 and Appendix 1, site visit photographs). 3. SOT and site team instructed to continuously remain in contact with people throughout construction works to find out any difficulties due to works. 4. Proper barricades, caution signage and other safety arrangements made at this site

9	Town: Fatehpur Person visited the Site: Dr. Mahaveer Saini, Environment Professional, CMSC-II and Mr. Rajeev Sharma (Social Safeguard Expert, CMSC-2, Jodhpur). Location: 1 4.3 MLD STP at Nari-Bari Road, 2 Labour camp and stock yard at Churu Road and 3 0.6 MLD SPS near Akshya Masid, Date of site Visit: 25.02.2022.	4.3 MLD STP at Nari-Bari Road, Fatehpur. • No adequate barricading was observed around the open pit/well of SPS. Labour camp and stock yard at Churu Road. • No information board was observed at labour camp and stock yard site. • 10 nos. bathrooms and 14 nos. toilets along with male and female marking, were observed with proper cleaning. • Septic Tank of toilets was not closed properly and it led to release of sewer odour into surrounding of the labour camp. 0.6 MLD SPS near Akshya Masid • No information Board was observed at SPS site.	4.3 MLD STP at Nari-Bari Road, Fatehpur • Proper barricading around the excavation well was done by contractor. Proposed site for reuse of treated effluent. • Information boards at labour camp and stock yards, have been provided by contractor. • Septic Tank has been fully covered by contractor. 0.6 MLD SPS near Akshya Masid • Information Board has been displayed at SPS site by contractor.
10	Town: Laxmangarh Person visited the Site: Dr. Mahaveer Saini, Environment Professional, CMSC-II, Location: 1. CRMC Building Construction site in AEN Campus, 2. CWR at Bad ke Balaji Head Works and 3. Labour Camp and Stock Yard Pipe Laying near Jajodiya Gust House. Date of site Visit: 26.02.2022.	CRMC Building Construction site in AEN Campus • No adequate housing keeping arrangements were observed. Labour Camp and Stockyard near Vinayak Collage. • No adequate fire extinguisher at stock yard to control the fire accident. • No solid waste storage container and management facility at labour camp.	CRMC Building Construction site in AEN Campus • Proper House keeping arrangements made by contractor. Labour Camp and Stockyard near Vinayak Collage. • Sufficient number of fire control extinguisher provided. • Solid waste storage containers have been provided by contractor.
11	Town: Mandawa Person visited the Site: Mr. Vardan Srivastava, Environment professional & Mani Kumar, Safeguard Support (Environment & Safety), CMSC-I Location:	1 Personal Protective Equipment's (PPE's) was placed in improperly at worker campus area.	1. It was ensured that PPEs kept in proper manner at safe area to avoid damage to them. 2. Safeguard Orientation to EHS personnel of contractor, safety training to contractor site staff, Site Engineer, and workers was provided on same day; 02.03.2022 in Mandawa

	1. STP (3.9 MLD) at Bisau Road; Mandawa 2. SPS; Mandawa Date of site Visit: 02.03.2022		town by ES Professionel of CMSC-1. Refer report 8 of appendix 4 and Appendix 1, site visit photographs).
12	Town: Ladnu Person visited the Site: Mr. Vardan Srivastava, Environment professional & Mani Kumar, Safeguard Support (Environment & Safety), CMSC-I Location: 1. STP (5.5 MLD) Near Asota Village; Brick Works of admin building went on; Ladnu 2. Sewer Laid at Bada Bas residential area; Ladnu 3. CRMC 02 Building nearby Railway Station; Ladnu Date of site Visit: 04.03.2022	1. No hard barrication and no safety signage board, No diversion board was not found at site during work activity went on 2. Incomplete working Scaffold was found at site. There was gap in working platform and guard railing and hand railing was missing at site.	1. Proper barricades, caution signage and other safety arrangements all around the site activity were ensured. 2. Scaffold erected by competent scaffolder with proper hand railing, guard railing and toe guard support. Worker were oriented to keep safty (Full Body Harness; FBH) while working above 1.8m height from ground level. 3. Orientation regarding requirements of environmental safeguard was done on the same day which was attended by PIU team and Contractors team on the same day, i.e. 04.03. 2022 and the observations were rectified on the same day. (Refer Table 22, Report no 3 of Appendix 4 and Appendix – 1 site visit photos).
13	Town: Didwana Person visited the Site: Mr. Vardan Srivastava, Environment professional & Mani Kumar, Safeguard Support (Environment & Safety), CMSC-I Location: STP (3 MLD), Zone 9; Didwana Date of site Visit: 04.03.2022	1. Sand and other Aggregate material was dumped at site without proper covering. 2. Shuttering material placed at structural excavated edge area. There were chances of material collapse down and cause major injury	1. Aggregate and sand storage material kept at site with proper tarpaulin protection to avoid unwanted air pollution 2 Shuttering material ensured to be placed at safe and storage area with proper hard barricading 3. Orientation regarding requirements of environmental safeguard was done on the same day which was attended by Contractors team on the same day, i.e. 04.03. 2022 and the observations were rectified on the same day. (Refer Table 22, Report no 4 of Appendix 4 and Appendix – 1 site visit photos).

14	Town: Makrana Person visited the Site: Mr. Vardan Srivastava, Environment professional & Mani Kumar, Safeguard Support (Environment & Safety), CMSC-I Location: 1. STP (7.7 MLD) Nearby Balaji Colony; 2. Sewerage Laid work; Date of site Visit: 05.03.2022	1. Improper material stacking at working site area. Material was dumped randomly	1. All used material properly barricaded with displayed signage board with outer protective cover 2. Training and Orientation regarding requirements of environmental safeguard was done on the same day which was attended by PIU team and Contractors team on the same day, i.e. 05.03. 2022 and the observations were rectified on the same day. (Refer Table 22, Report no 2 of Appendix 4 and Appendix – 1 site visit photos).
15	Town: Kuchaman Person visited the Site: Mr. Vardan Srivastava, Environment professional & Mani Kumar, Safeguard Support (Environment & Safety), CMSC-I Location: STP (7.6 MLD) Nearby New Bus Stand; Structural excavation work and structural marking work went on at site; Kuchaman Date of site Visit: 05.03.2022	1. Improper material stacking at steel yard area. Material was dumped randomly at work site area. 2. No Emergency hooter & proper illumination facilities provided at STP storage area and working area.	1. proper barricading at Steel yard area with signage board and outer protective cover ensured. 2. Emergency hooter and proper illumination facilities with flood light arrangement was ensured at STP storage area and working area. 3. Orientation regarding requirements of environmental safeguard was done on the same day which was attended by Contractors team on the same day, i.e. 05.03. 2022 and the observations were rectified on the same day. (Refer Table 22, Report no 6 of Appendix 4 and Appendix – 1 site visit photos).

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 is necessary for contractors and site staff of PIUs and Consultants to understand the basic EHS requirements during construction works. Pre-construction stage safeguard orientations of site engineers of PIUs, CMSCs and contractors is done by PMCBC/CMSC environmental specialists in all towns. 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. Reports of pre-construction stage environmental safeguard orientations given in Abu road, Sirohi, Sardarshahar, Ratangarh, Laxmangarh, Fatehpur, Banswara, Pratapgarh Mandawa, Kuchaman, Didwana, Ladnu, Makrana towns were reported in last SEMR (April 2021 to September 2021).

31. During site visits of safeguard experts/safeguard support personnel of PMCBC and CMSC to project sites, onsite orientations for safeguards compliances are regularly being done for site engineers of PIU/CMSC/Contractors and site supervisors, workers, 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 8**.

33. During the reporting period following safeguard orientations were done by PMCBC/CMSC environmental safeguard specialists-

**Table 22- Safeguard Orientations Done during October 2021 to March 2022
(by Safeguard specialists of PMCBC/CMSC)**

S. No.	Orientation/Training	Date	Demonstrators	Participants
1. Makrana Town				
1	Orientation regarding requirements of environmental safeguard during project implementation	22/12/2021	Mr. Vardan Srivastava, Environment Specialist, CMSC-I and Mr. Mani Kumar (Safeguard Support (Env. & Safety); CMSC-I)	PIU: 1.Mr. Sh. Gurtej Singh, Executive Engineer, PIU, Makrana Consultant (CMSC-I): 1.Mr. Vardan Srivastava, Environmental Safeguard Professional, Jaipur. 2. Mr. Arun Kanojia, ACM, CMSC-1, Makrana. 3. Mr. Mani Kumar (Safeguard Support (Env. & Safety); CMSC-I; Jaipur. Contractor's team (L& T): 1. Mr. B.N. Shukla Construction Manager (M/s L& T) Total Participants- 05 Male-05 Female-0
2	Orientation regarding requirements of environmental safeguard during project implementation	05/03/2022	Mr. Vardan Srivastava, Environment Specialist, CMSC-I and Mr. Mani Kumar (Safeguard Support (Env. & Safety); CMSC-I)	Consultant (CMSC-I): 1.Mr. Vardan Srivastava, Environmental Safeguard Professional, Jaipur. 2. Mr. Arun Kanojia, ACM, CMSC-1, Makrana 3. Mr. Mani Kumar (Safeguard Support (Env. & Safety); CMSC-I; Jaipur. 4. Mr. Bhagirath Soni; Support Engineer, CMSC-01, Makrana Contractor's team (L& T): 1.Mr. SK Singh; Project Manager, M/s L&T, Makrana. 2. Mr. B.N. Shukla Construction Manager (M/s L& T); Makrana. 3. Mr. Ravinder Rawat; Assistant Construction Manager, M/s L&T, Makrana Total Participants- 07 Male-07 Female-0
2. Ladnu Town				
3	Orientation regarding requirements of environmental safeguard	04/03/2022	Mr. Vardan Srivastava, Environment Specialist, CMSC-I and Mr. Mani	PIU: 1.Mr. RD Garg, Executive Engineer, PIU, RUIDP, Ladnu. 2.Mr. Jitendra, Junior Engineer (JEn), PIU, RUIDP, Ladnu

	during project implementation		Kumar (Safeguard Support (Env. & Safety); CMSC-I)	Consultant (CMSC-I): 1. Mr. Vardan Srivastava, Environmental Safeguard Professional, Jaipur. 2. Mr. Ram Kumar Singhal, Assistant Construction Manager (ACM), CMSC-01, Ladnu. 3. Mr. Mani Kumar (Safeguard Support (Env. & Safety); CMSC-I; Jaipur. 4. Mr. Sher Mohammed; Support Engineer, CMSC-01, Ladnu Contractor's team (L& T): 1. Mr. SK Singh; Project Manager, M/s L&T, Ladnu. 2. Mr. Surendar Suhag; Site Engineer, M/s L&T, Ladnu 3. Mr. Robin Marpani; EHS Officer, M/s L&T, Ladnu 4. Mr. Jeevan Kumar; EHS Officer, M/s L&T, Ladnu 5. Mr. Anil Choudhary; EHS Safety Stewards, M/s L&T, Ladnu. Total Participants- 11 Male-11 Female-0
3. Didwana Town				
4.	Orientation regarding requirements of environmental safeguard during project implementation	04/03/2022	Mr. Vardan Srivastava, Environment Specialist, CMSC-I and Mr. Mani Kumar (Safeguard Support (Env. & Safety); CMSC-I)	Consultant (CMSC-I): 1. Mr. Vardan Srivastava, Environmental Safeguard Professional, Jaipur. 2. Mr. Rahul, Senior Construction Engineer (SCE), CMSC-01, Didwana. 3. Mr. Mani Kumar (Safeguard Support (Env. & Safety); CMSC-I). Contractor's team (L& T): 1. Mr. SK Singh; Project Manager, M/s L&T, Ladnu 2. Mr. Suraj Kumar Singh; Site Engineer, M/s L&T, Ladnu 3. Mr. Robin Marpani; EHS Officer, M/s L&T, Didwana Total Participants- 06 Male-06 Female-0

4. Kuchaman Town				
5.	Orientation regarding requirements of environmental safeguard during project implementation	03/12/2021	Mr. Vardan Srivastava, Environment Specialist, CMSC-I and Mr. Mani Kumar (Safeguard Support (Env. & Safety); CMSC-I)	PIU: 1. Mr. Rakesh Kumar Mudgal, Superintending Engineer, PIU, RUIDP, Kuchaman. 2. Mr. Gurtej Singh, Executive Engineer, PIU, RUIDP, Makrana. Consultant (CMSC-I): 1. Mr. Pradeep Kumar Jha (Team Leader. 2. Mr. A.K. Rahul (Assitant Contract Manager Specalisit). 3. Mr. Vardan Srivastava, Environmental Safeguard Professional, Jaipur 4. Mr. Arun Kanojia, ACM, CMSC-1, Kuchaman 5. Mr. Mani Kumar (Safeguard Support (Env. & Safety); CMSC-I). Contractor's team (L& T): 1. Sh. Shahnawaz Hasan, Project Manager, M/s L&T, Kuchaman Total Participants- 08 Male-08 Female-0
6.	Orientation regarding requirements of environmental safeguard during project implementation	05/03/2022	Mr. Vardan Srivastava, Environment Specialist, CMSC-I and Mr. Mani Kumar (Safeguard Support (Env. & Safety); CMSC-I)	Consultant (CMSC-I): 1.Mr. Vardan Srivastava, Environmental Safeguard Professional, Jaipur. 2. Mr. Vishwnath Sharma Senior Construction Engineer (SCE), CMSC-01, Kuchaman. 3. Mr. Mani Kumar (Safeguard Support (Env. & Safety); CMSC-I). 4. Mr. Ankit Sharma; Support Engineer, CMSC-01, Kuchaman 5. Mr. Bhajan Lal Meena; Social Safeguard Support, CMSC-01, Kuchaman Contractor's team (L& T): 1. Mr. Shahnawaz Hassan; Project Manager, M/s L&T, Kuchaman. 2. Mr. Atul Singh; Section Incharge, M/s L&T, Kuchaman.

				3. Mr. Sayam Anjum; Assistant Construction Manager, M/s L&T, Kuchaman. Total Participants- 08 Male-08 Female-0
5. Mandawa Town				
7.	Orientation regarding requirements of environmental safeguard during project implementation	09/02/2022	Mr. Vardan Srivastava, Environment Specialist, CMSC-I and Mr. Mani Kumar (Safeguard Support (Env. & Safety); CMSC-I).	PIU: 1. Mr. Devender Saini; AEn., PIU, RUIDP, Mandawa. Consultant (CMSC-I): 1. Mr. Vardan Srivastava, Environmental Safeguard Professional, Jaipur. 2. Mr. Vijay Pal; ACM, CMSC-1, Mandawa 3. Mr. Mani Kumar (Safeguard Support (Env. & Safety); Jaipur ; CMSC-I). 4. Mr. Deepak Kumar; Support Engineers; CMSC-I; Mandawa. 5. Mr. Manish Parashar; Support Engineers; CMSC-I; Mandawa. 6. Mr. Yogesh Atreya; Socila Safeguard Support; CMSC-I; Mandawa. Contractor's team (M/s LNA): 1. Mr. Bhujang Rao; Project Manager; M/s LNA; Mandawa. 2. Mr. Dharmendra Saini; Site Engineer (pipe laying sites); M/s LNA; Mandawa. 3. Mr. Rajamalla Reddy; Site supervisor; M/s LNA; Mandawa. 4. Mr. Ali Murtaja; Site Engineer, STP Site; M/s LNA; Mandawa. Total Participants- 11 Male-11 Female-0

8.	Orientation regarding requirements of environmental safeguard during project implementation	02/03/2022	Mr. Vardan Srivastava, Environment Specialist, CMSC-I and Mr. Mani Kumar (Safeguard Support (Env. & Safety); CMSC-I)	PIU: 1. Mr. Devender Saini; AEn., PIU, RUIDP, Mandawa. 2. Mr. Ankit Choudhary; JEn., PIU, RUIDP, Mandawa. Consultant (CMSC-I): 1. Mr. Vardan Srivastava, Environmental Safeguard Professional, Jaipur. 2. Mr. Mani Kumar (Safeguard Support (Env. & Safety); Jaipur ; CMSC-I). 3. Mr. Deepak Kumar; Support Engineers; CMSC-I; Mandawa. 4. Mr. Manish Parashar; Support Engineers; CMSC-I; Mandawa. 5. Mr. Yogesh Atreya; Socila Safeguard Support; CMSC-I; Mandawa. Contractor's team (L& T): 1. Mr. Meg Raj Gadara; Site In Charge; M/s LNA; Mandawa . 2. Mr. Devashis Neeraj; Billing & Planning Engineer; M/s LNA; Mandawa. 3. Mr. Himanshu Bhadiriya; Quality Engineer; M/s LNA. Mandawa. 4. Mr. Manoj Kumar Joya; EHS Officer; M/s LNA; Mandawa. 5. Jagdish Meena; SOT Head; M/s LNA; Mandawa. Total Participants- 12 Male-12 Female-0
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S. No.	Orientation/Training	Date	Demonstrators	Participants
6. Sirohi Town				
9	Training Orientation for Environmental Health and Safety to Workers at (1.7 MLD STP Revdar Road), Sirohi Town	05.10.2021	Dr. Mahaveer Prasad Saini , Environment Safeguard Professional of CMSC -II	PIU: 1. Mr. Ashok Jain (Superintending Engineer, PIU, Sirohi) 2. Ashok Karwasra (Junior Engineer) Consultant (CMSC-II): 1. Mr. Mr Vikas Mathur (Senior Construction Engineer-CMSC-2, Sirohi) 2. Mr. Mahesh Kumar Verma (Environment Safeguard Support -CMSC-2, Sirohi)

				Contractor's team (L& T): 1. Mr. Satish Vaniya (Safety Officer L&T, Sirohi) Total Participants- 13 Male-13 Female-0
7. Fatehpur				
10	Training Orientation to Worker at 4.3 MLD STP on Nari-Bari Road, Fatehpur	25.02.2022	Dr. Mahaveer Prasad Saini , Environment Safeguard Professional of CMSC -II	PIU: Mr. Manoj Mittal (Executive Engineer, PIU, Fatehpur) Consultant (CMSC-II): 1.Mr. Anupam Malviya ACM-CMSC-2, Fatehpur 2.Mr. V.B. Patil Senior Quantity Surveyor cum Acting TL of CMSC-2, Jodhpur 3.Mr. Rajeev Sharma Social Safeguard Expert, CMSC-2, Jodhpur Contractor's team (L& T): 1.Mr. Madeshwar Kumar Raj (Project Manager-L&T, Fatehpur) Total Participants- 11 Male-11 Female-0
8. Ratangarh				
11	Training Orientation to Worker at SPS Site Main Ginani (Ratangarh)	25.02.2022	Dr. Mahaveer Prasad Saini , Environment Safeguard Professional of CMSC -II	PIU : None Consultant (CMSC-II): Mr. Prakash Jha ACM: CMSC-2, Ratangarh Mr. Afzal Ansari (Env. Safeguard Support) Contractor's team (L& T): Mr. Mustafa (Safety Officer, L&T Ratangarh) Total Participants- 06 Male-06 Female-0
12	Training Orientation at working site (3.8 MLD STP on Old NH-11) Ratangarh	21.12.2021	Dr. Mahaveer Prasad Saini , Environment Safeguard Professional of CMSC -II	PIU : None Consultant (CMSC-II): Mr. Prakash Jha ACM: CMSC-2, Ratangarh Mr. Afzal Ansari (Env. Safeguard Support) Contractor's team (L& T): Mr. Mustafa (Safety Officer, L&T Ratangarh) Total Participants- 09 Male-06 Female-03
9. Abu Road				
13	Training Orientation for Environmental, Health and Safety to Worker at Sewerage Treatment	06.10.2021	Dr. Mahaveer Prasad Saini , Environment Safeguard Professional of CMSC -II and Mahesh Kumar Verma	PIU : None Consultant (CMSC-II): 1.Mahesh Kumar Verma (Environment Safeguard Support -CMSC-2, Abu Road) Contractor's team (L& T): 1.Mr. Pankaj Biswas (Project Manager, L&T) 2.Mr. Sachin Sharma (Safety Engineer, L&T)

	Plant at Manpur (2.3MLD), Abu Road Town		(Environment Safeguard Support -CMSC-2, Abu Road)	Total Participants- 16 Male-16 Female-0
10. Sardarshahar				
14	2.3 MLD SPS in PHED Campus on Hanumangarh Road, Sardar Shahar	23.12.2021	Dr. Mahaveer Prasad Saini , Environment Safeguard Professional of CMSC -II	PIU : Mr. Dinesh Kumar Junior Engineer RUIDP PIU (Sardar Shahar) Consultant (CMSC-II): 1.Mr. Amardeep Singh ACM: CMSC-II, Sardar Shahar 2.Mr. V.B. Patil Senior Quantity Surveyor cum Acting TL of CMSC-2, Jodhpur Contractor's team (L& T): 1 Rakesh Kumar Sahoo Safety Officer, L&T Sardar Shahar Total Participants- 12 Male-10 Female-02
11. Laxmangarh				
15	At Pipe laying Site near Jajodiya Guest House, Laxmangarh	29.01.2022	Dr. Mahaveer Prasad Saini , Environment Safeguard Professional of CMSC -II	PIU : None Consultant (CMSC-II): Mr. Haider Khan Pawar Support Staff: CMSC-2, Laxmangarh Contractor's team (L& T): 1. Mr. Vikash Khalia First Aid officer, L&T Laxmangarh Total Participants- 09 Total Participants- 09 Male-07 Female-02
16	CRMC Building site in Manashi, laxmangarh	29.01.2022	Dr. Mahaveer Prasad Saini , Environment Safeguard Professional of CMSC -II	PIU : None Consultant (CMSC-II): Mr. Haider Khan Pawar Support Staff: CMSC-2, Laxmangarh Contractor's team (L& T): 1. Mr. Vikash Khalia First Aid officer, L&T Laxmangarh Total Participants- 09 Male-07 Female-02
17	CWR Site in Badke Balaji Head Works, Laxmangarh	29.01.2022	Dr. Mahaveer Prasad Saini , Environment Safeguard Professional of CMSC -II	PIU : None Consultant (CMSC-II): Mr. Haider Khan Pawar Support Staff: CMSC-2, Laxmangarh Contractor's team (L& T): 1. Mr. Vikash Khalia First Aid officer, L&T Laxmangarh Total Participants- 07 Male-07 Female-00

Note- Photographs and attendance sheets of orientations are attached in Appendix 6

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 OCTOBER 2021– MARCH 2022

S. No.	Date and place of consultation	Works being executed at/near site	Persons consulted	Topics discussed during consultation	Outcome of consultation
1.	22/12/2021 at Zone 4: Manglana Highway & Vasundra Nagar; Makrana And Zone 8: Maliyo Ke Dhani & Matabhar; Makrana	Sewerage Laid work and excavation work went on	Nearby residents Male- 3 Female- 1	• Pre-construction information about nature, difficulties, duration of work • Inconvenience due to Pipe laying work • Project Information about contact details • During consultation it was found that some pipe line connections broken and repaired with 24hrs.	• 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
2.	05/03/2022 at Sewage Treatment Plant (7.7 MLD) at nearby Balaji Colony, Makrana	STP Plant and CRMC Building and Worker Camp; Makrana	Site Worker Orientation at different structural area Engineers- M- 3, F-0 Workers- M- 10 & F-0 Supervisors- M-4, F-0	1. Importance of Work at Height 2. Importance of Full Body Harness (FBH) in Height Work	Work took interest in training session and address them about Height work hazards and their control measures. Workers ensure that they work safely and take care of housekeeping in working area.
3.	04/03/2022 at Bada Bas (Sewer Laid); Ladnu	Sewerage Laid work went on	Male- 2 Female- 0	1. Any Grievance due to laying of Sewerage pipeline. 2. Pre-construction information about nature, difficulties, duration of work. 3. Inconvenience due to Pipe laying work 4. Project Information about contact details	1. Local residence are satisfied with project site work and appreciate the site work. 2. All Information were provided to nearby residents 3. Residents were satisfied with the arrangements done for the ease of residents during pipe laying 4. SOT team work visited time to time in

S. No.	Date and place of consultation	Works being executed at/near site	Persons consulted	Topics discussed during consultation	Outcome of consultation
4.	04/03/2022 at STP (5.5 MLD) Near Asota Village (Sewer Laid) and Worker Camp Area; Didwana	Sewerage Laid work went on	Male- 1 Female- 1	1. Any Grievance due to laying of Sewerage pipeline. 2. Pre-construction information about nature, difficulties, duration of work. 3. Inconvenience due to Pipe laying work 4. Project Information about contact details	1. Local residence are satisfied with project site work and appreciate the site work. 2. All Information were provided to nearby residents 3. Residents were satisfied with the arrangements done for the ease of residents during pipe laying 4. SOT team work visited time to time to aware the community peoples about project activity.
5.	03/12/2021 at 1. In Zone 1: Balaji Vihar Colony; Kuchaman 2. In Zone 5: Pareek Colony; Kuchaman. 3. M/S L&T Laboratory Area: Panchwa Road Lakhji Ka Bas Colony; Kuchaman	Inspection of laying work of Water pipe line and excavation work went on.	Male – 1 Female - 4	Public consultation was done at construction site to know the views of local residence towards the project and they have faced any grievance to the project such as Excess, Connectivity, and air pollution.	In public consultation Local residence were satisfied with the Contractor team and his work and they have a prior information for day and timing of the execution of work. Still instructed to the contractor team members to ensure the passage should be clear in same day so local public will not face any problem for transportation.
6.	05/03/2022 at Sewage Treatment Plant (7.6 MLD) at nearby New Bus Stand, Kuchaman & CWR (720 KL) at nearby Jagdamba Colony, Kuchaman.	Structural excavation work and structural marking work went on & Structural Rebar reinforcement work went on.	Site Worker Orientation at different structural area Engineers- M- 1, F-0 Workers- M- 4 & F-0 Supervisors- M-1, F-0	1. Importance of Personal Protective Equipments (PPE's).	Work took interest in training session and address them about importance of wearing Personal Protective Equipments (PPE's) at site during working at site. They ensure us that they wear all PPE's.
7.	09/02/2022 at Zone 1: Ward No. 18 & Harlaka Chattri and Fatepur By Pass, Near PHED, JEN Campus; Mandawa.	Sewerage and Water line Laying Work in progress	Male – 06 Female – 04	- 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	
8.	02/03/2022 at Sewage Treatment Plant (3.9 MLD) at Bissau Road; Mandawa and Sewage Pumping Station (0.40 MLD) and Worker's camp; Mandawa.	Works of MPS First lift casting work went on and Shuttering work in under progress	Site Worker Orientation at different structural area Engineers- M- 3, F-0 Workers- M- 0 & F-0 Supervisors- M-5, F-0	1.Importance of documentation of Environment, Health and Safety Policies 2.Importance of Personal Protective Equipment's	Examined all EHS documentation of contractor staff and recommend them to prepare all EHS documentation under SPS 2009 ADB Guidlines and Upadte them time to time so that no lapse comes under the projects. And address them to work safely at site.
9.	05.10.2021, Public Consultation in Housing Board Colony, Sirohi	Proposed pipelaying of sewerage	Nearby residents Male- 01 Female- 03	Impacts of pipelaying on the locality	• All Informations 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
10.	06.10.2021 Public Consultation at Housing Board, Manpur (Abu Road)	Sewerage Work	Nearby residents Male- 01 Female- 03	• Road restoration feedback - Cleaning of drain	• All Informations 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
11.	26.02.2022 Pubic Consultation was conducted near SPS Site at Main Gianni, Ratangarh	Proposed SPS site near Main Gianni	Nearby residents Male- 02 Female- 01	Construction of the SPS	- All Informations 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
12.	29.01.2022 Public Consultation was conducted at Jajodiya Guest House Colony, Laxmangarh	Proposed Water supply pipelaying work	Nearby residents Male- 03 Female- 00	Proposed Water Supply Subproject	- All Informations 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

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)⁶ the system was effective in timely resolution of grievances

⁶ 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

in a transparent manner.⁷ The multichannel, project-specific, three-tier GRM is functional at RUSDP, hence the design of GRM for RSTDSP takes into account the proposed institutional structure for RSTDSP and the positive features and learnings from the previous GRM.⁸

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.

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.

⁷ 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.

⁸ 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.

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 site⁹ or by sending a Whatsapp message to the PIU¹⁰ or by dialling the phone number of town level PIU/CAPPC or by dialling a toll-free number.¹¹ Any aggrieved person can also avail the facilities of online grievance monitoring system 'Rajasthan Sampark' portal to register their grievance which is a parallel mechanism of grievance registration, in addition to the project GRM.¹² 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

⁹ 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.

¹⁰ 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.

¹¹ Project contractors in all project towns will have a toll-free number with specific working hours for registration of grievances related to RSTDSP.

¹² <http://www.sampark.rajasthan.gov.in/RajSamWelcome.aspx>

complaint/grievance. If required, city level monitoring committee (CLMC)¹³ will be involved in resolution of grievances at the 1st level.

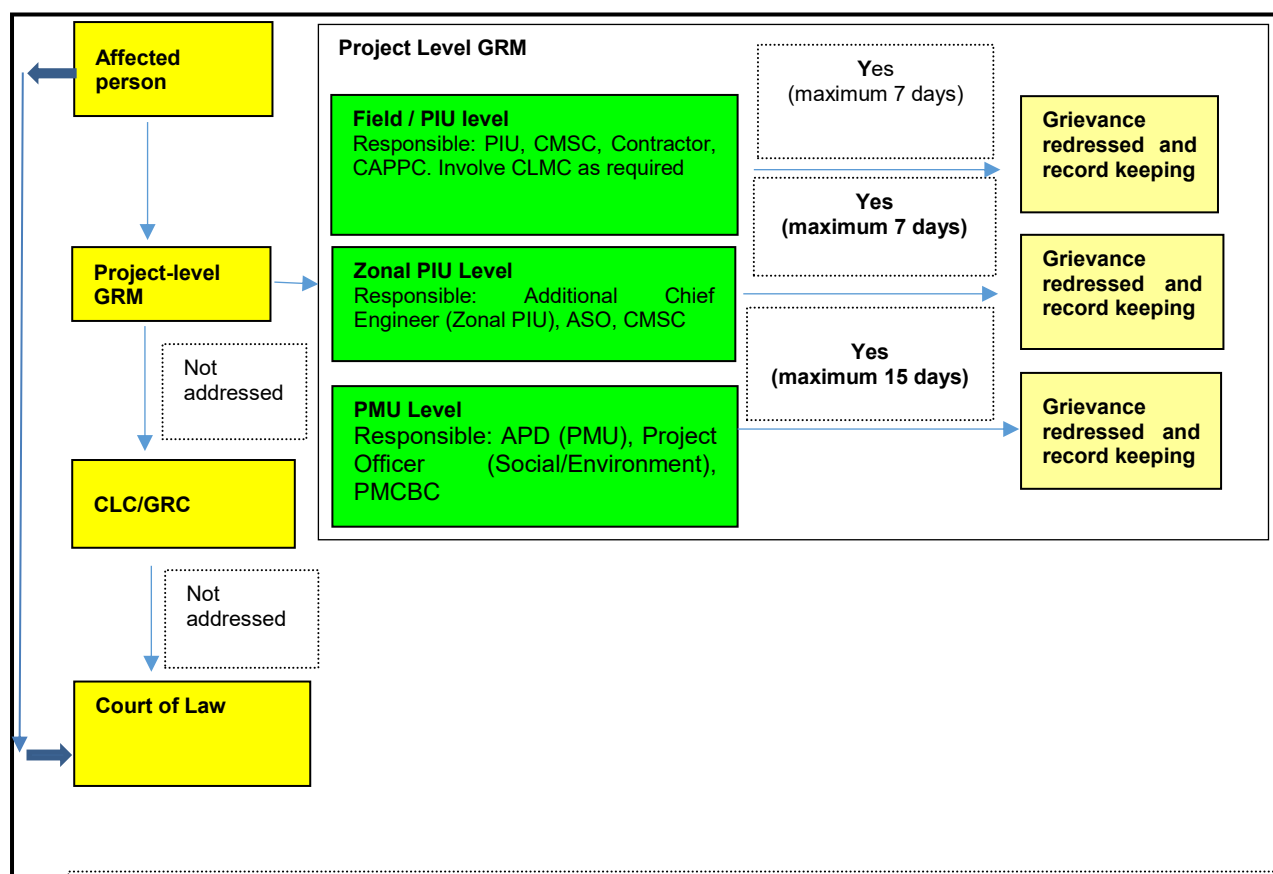
- (ii) **2nd level grievance.** All grievances that cannot be redressed within 7 days at field/PIU level will be brought to the notice of Zonal PIU headed by Additional Chief Engineer (ACE). The ACE at zonal PIU will resolve the grievance within 7 days of receipt of complaint/grievance in discussion 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).
- (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.¹⁴ 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.

¹³ 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.

¹⁴ 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.

- (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.

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), 2013.¹⁵

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 Mechanism¹⁶.

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 11.

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			Mr. S.K. Verma, Zone-Jodhpur	Mr. Vijay Choudhary	Mr. K M Mandawariya
Fatehpur	Mr. Madheshwar Kumar	Mr. Hari Babu	Mr. Surendra Godra					
Laxmangarh	Mr. Madheshwar Kumar	Mr. Hari Babu	Mr. Hari Babu					

¹⁵ The Authority admits grievance only with reference to the Land Acquisition and R&R issues under the RFCTLARRA, 2013.

¹⁶ 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
Sardarshahar	Mr. Rishi Kumar Sakalley	Mr. R.D. Garg (on Additional Charge)	Mr. Dinesh Fogat	Dr. Mahaveer Saini	Mr. Rajeev Sharma			
Abu Road	Mr. Pankaj Biswas	Mr. Deepak Mandan	Mr. Sunil Vishnoi					
Sirohi	Mr. Prakash Chand Gupta	-	Mr. Ashok Kadwasara					
Pratapgarh	Mr. Lalit Trivedi	Mr. Ashok Kumar Jangid	Mr. Madan Lohar					
Banswara	Mr. S.P. Singh	Mr. Ashok Jangid	Mr. Prabhulal Bhabor					
Kuchaman	Mr. Shahnavaz Hasan	Mr. Mahesh Gupta	Mr. Jitendra Meena	Mr. Vardan Srivastava	Mr. Nasir Hussain	Mr. Kapil Gupta		
Ladnun	Mr. S.K.Singh	Mr. R.D.Garg	Mr. Jitendra.					
Makrana	Mr. S.K.Singh	Mr. Gurtej Singh	Mr. Gurtej Singh					
Didwana	Mr. S.K.Singh	Mr. Gurtej Singh	Mr. Jitendra					
Khetri	Mr. Anil kumar Meena	Mr. D.K.Verma	Mr. Devendra Saini					
Mandawa	Mr. Karri Bhujanga Rao	Mr. D.K.Verma	Mr. Devendra Saini (On additional Charge)					

During October 2021 to March 2022, no grievances related to environment was received.

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

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

45. During reporting period various such activities were performed by different contractors and illustrations are attached as **Appendix 7 and 8** with this report.

46. Contractors of Abu Road, Sirohi, Sardarshahar, Laxmangarh, Ratangarh, Fatehpur have submitted the Site-Specific Environment Management Plans (SEMP) in pre-construction phase, 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. SEMP of other contractors are under stage of submission/review by experts and shall be reported in next SEMR.

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

48. All the contractors have prepared separate plan for prevention and control of COVID-19 during pandemic and after resume of works at site. Purpose of these documents are to lay

down procedures to be followed during pandemic conditions as per guidelines issued by State Government & local authorities. RUIDP directions, contractors SOPs, their efforts and activities for prevention and control measures for COVID-19; adopted by contractors are reported in **Appendix 8**.

49. **Accident and Incident at project sites.** Contractors are implementing the safety measures at all project sites as per best practices, but there are always chances of accident and incident during construction works. Contractors are reporting accident, incident, near miss and first aid cases on quarterly basis to PIUs/consultants. A report on accident and incident cases during reporting period is attached as **Appendix 12**.

12. SUMMARY OF KEY ISSUES AND REMEDIAL ACTIONS

A. FINDINGS AND KEY ISSUES

50. Up to March 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).

51. IEEs of 13 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. Out of total IEE submitted, IEEs of 11 towns i.e. Ratangarh, Sardarshahar, Fatehpur, Laxmangarh, Abu Road, Sirohi, Pratapgarh, Kuchaman, Didwana, Makrana & Banswara towns have been approved by ADB and uploaded on web portal.

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

53. All the required legal obligations are being fulfilled in the project. 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 March 2022 total 20 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.

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

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

B. REMEDIAL MEASURES

56. Following remedial measures and action plan is 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 a small stretch of raw water rising main at Abu Road (3.6975 ha).	PIU/CMSC-2	01.08.2022
Land Issues of project components	Ladnu- Land for STP 2.4 MLD at Vishwanathpura Sardarshahar- Land for STP 1.6 MLD at Gandhi Vidya Mandir's land	PIU, Ladnu PIU, Sardarshahar	At earliest At earliest
Training of workers on HIV/AIDS awareness	Conduct Training for HIV/AIDS for all contractors' workers, PIU and other engineers in projects of Pratapgarh, Laxmangarh, Ratangarh, Fatehpur, Mandawa, Khetri, Ladnu, Didwana, Makrana, Kuchaman towns	DBO contractors of concerned towns	31.07.2022

APPENDIX 1: PHOTOS OF SITE VISITS AND CONSTRUCTION WORKS**Makrana Town (Site visited on dated 22.12.2021)**

Sewerage Line work safely with Cautionary Board



Heavy Vehicle Inspection on Project site



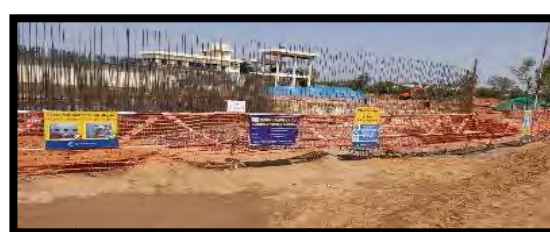
Safety Training at working site for Laours (Importance of PPE's)



Safety Training at working site of Site Engineers and Site Supervisor

Makrana Town (Site Visited on dated 05/03/2022)

Site Specific Safety Signage board was noticed at site with emergency contact details and toll-free number



Drinking Water Facilities at site



Safety Training at working site for Site Staff and Labours (Work at Height)



Safety Training at working site for Site Staff and Labours (Inspection and Use of Electrical Tools)

Ladnu Town (Site Visited on dated 04/03/2022)



Work at height safety @ CWR; Ladnu



Proper Material Stacking @ Stock Yard; Ladnu



Safety Training at working site for Site Staff on Use of Fire Extinguisher



Safety Training at working site for Site Staff on Importance of Safety Signage Boards

Didwana Town (Site Visited on dated 04/03/2022)

Provide sufficient toilets and bathroom with proper signage, cleanliness



Workers have worn Full Personal Protective Equipment's (PPE's) while cutting rebar at site.



Safety Training of Contractor Site Staff at Labour Area and Medical Campus, Didwana Campus

Kuchaman Town (Site Visited on dated 03/12/2021)

Water line connection with cautionary signage



Water line connection inspection at site



Heavy Vehicle training to JCB Driver



Use of Personal Protective Equipments (PPE's)

Kuchaman Town (Site Visited on dated 05/03/2022)

Proper material tarpaulin coverage of aggregate at site

Proper hard barrication of excavated structural area



Safety Training at working site for Site Staff on Importance of Worker Rest Shulter at site

Safety Training of Contractor Site Staff and Labour on importance of barrication at site

Mandawa Town (Site Visited on dated 09/02/2022)

Informative Project Detailed Displayed at site

Toll free number and Emergency contact number displayed at site



Safety Training of Contractor Site Staff at Labour water line connection area on Manual Handling Material at site.



Safety Training of Contractor Site Staff at Labour water line connection area on Manual Handling Material at site

Mandawa Town (Site Visited on dated 02/03/2022)



Proper Material stacking of DWC & HDPE Pipe for water line connection @ Stock yard



In Worker campus area provided proper bed facilities for all workers



Safety Training of Contractor Site Staff at STP site on Importance of Housekeeping at working area



Safety Training of Contractor Site Staff at CWR site on Importance of Housekeeping at working area

Ratangarh Town (Site Visit 21.12.2021)



Barricading for diversion of road traffic at truck line laying



Ambulance at 3.8 MLD STP Site on Old NH-11

Sardar Shahar Town (Site Visit 22 & 23.12.2021)

Excavated soil storage near the CWR site in PHED Campus on Hanumangarh Road.



First Aid Box at 2.3 MLD STP in South Campus of Gaushala



Sign boards for First Aid Box and drinking water facility at 3.4 MLD STP in North Campus of Gaushala



Safety belt and other PPEs at working on height of TEER, 3.4 MLD STP in North Campus of Gaushala

Fatehpur Town (Site Visit 23.12.2021)

Project Information at SPS Site Behind Dholi Sati Temple



No helpline number is display on information board at SPS Site Behind Dholi Sati Temple



Meeting with Executive Office
of Nagar Palika, Fatehpur
for land identification of treated effluent.

Laxmangarh Town (Site Visit 29.01.2022)



Project Information board at CRMC Site, Laxmangarh;



Drinking Water and First Aid Facilities at CRMC
Site in AEN Campus, Laxmangarh;



Proper site clearance at CRMC Building, Laxmangarh

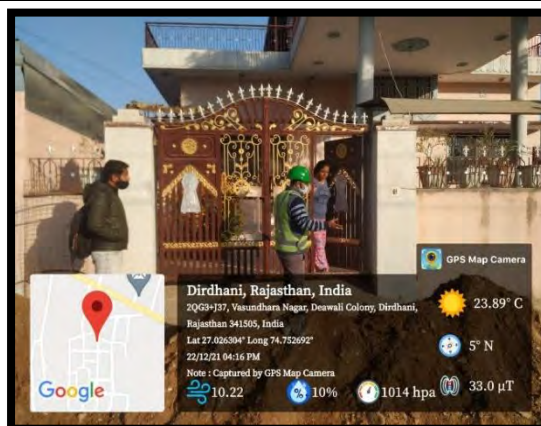


Proper Pipe barricades with steel
fixtures/clamps, Laxmangarh

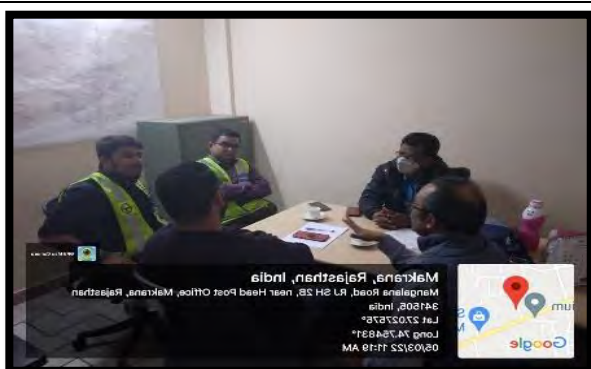
	
5 nos. male and 5 nos. female toilets at labour camp, Laxmangarh	3 nos. male and 3 nos. female bathrooms at labour camp, Laxmangarh
Fatehpur Town (Site Visit 25.02.2022)	
	
Separate male and female 10 nos. bathrooms and 14 nos. toilets in labour camp, Fatehpur Town	Proper Pipe Barricading, Laxmangarh, Sewer manhole works behind Makadninath School
Laxmangarh Town (Site Visit 26.02.2022)	
	
Proper caution signage and diversion boards at Sewer manhole works behind Makadninath School	Workers were seen using proper PPEs and ladder was also provided to entry into the trench for manhole at Sewer manhole works behind Makadninath School

APPENDIX 2: SAMPLE PHOTOGRAPHS OF CONSULTATIONS**Makrana Town**

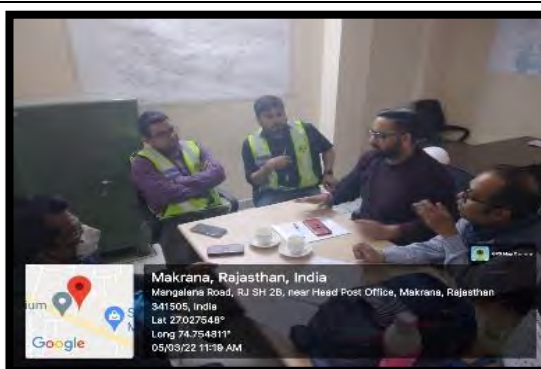
Public Consultation at Zone 4: Vasundra Nagar; Makrana on dated 22/12/2021



Public Consultation at Zone 8: Maliyo Ke Dhani & Matabhar; Makrana on dated 22/12/2021



Discussion with M/s L&T Project Team; Makrana on dated 05/03/2022



Discussion with M/s L&T Project Team; Makrana on dated 05/03/2022

Ladnu Town

Public Consultation at Bada Bas Area; Ladnu on dated 04/03/2022



Public Consultation at Bada Bas Area; Ladnu on dated 04/03/2022

Didwana Town

Discussion with M/s L&T Project Manager and his team; on dated 04/03/2022



Discussion with M/s L&T Project Manager & his team; on dated 04/03/2022

Kuchaman Town

Public Consultation at Zone 1: Balaji Vihar Colony ; Kuchaman on dated 03/12/21



Public Consultation at Zone 5: Pareek Colony ; Kuchaman on dated 03/12/2021



Discussion with M/s L&T Project Manager and his team; Kuchaman on dated 05/03/2022



Discussion with M/s L&T Project Manager and his team; Kuchaman on dated 05/03/2022

Mandawa Town



Public Consultation at Zone 1: Ward No. 18 & Mandawa on dated 09/02/2022



Public Consultation at Harlaka Chattri ; Mandawa on dated 09/02/2022



Discussion with M/s LNA Project team; Mandawa on dated 02/03/2022



Discussion with M/s LNA at; Mandawa on dated 02/03/2022



Public consultation at Housing Board Colony, Sirohi dated 05.10.2021



Public consultation at Purana Housing Board Colony, Abu Road 05.10.2021



Photographs of Public Consultation near
4.6 MLD SPS Site Main Ginani (Ratangarh)
26.02.2022



Public Consultation in Zone 1B,
Laxmangarh 29.01.2022



Photograph of Public Consultation in
Jajodiya Guest House Colony, Laxmangarh
dated 29.01.2022



Photograph of Public Consultation in
Jajodiya Guest House Colony, Laxmangarh
dated 29.01.2022

APPENDIX 2A: SAMPLES OF ATTENDANCE SHEETS OF CONSULTATIONS**Attendance Sheet of Site Visit of Kuchaman and Makrana Town on dated 05.03.2022**

Attendance Sheet (Makrana & Kuchaman)

S.No.	Date/Time	Location	Name	Occupation/ Designation	Signature	Remarks
1.						
2.	05-03-2022	Makrana	ARUN KANOJIYA	ACM	<i>[Signature]</i>	
3.	05/03/2022	Makrana	Vedant Srivastava	Environment Safeguard expert	<i>[Signature]</i>	
4.	05/03/2022	Makrana	Mami Kumari	Safeguard Support (Env. & Safety)	<i>[Signature]</i>	
5.	05/03/2022	Makrana	BNSHUKLA	cm.	<i>[Signature]</i>	
6.	05/03/2022	Makrana	KAVINDESH	ASST. CONST. MGR.	<i>[Signature]</i>	
7.	05/03/22	Kuchaman	Shahmohammad	PM (L&T)	<i>[Signature]</i>	
8.	05/03/22	Kuchaman City	Bhajan Lal Meena	Social Safeguard & support (Env.)	<i>[Signature]</i>	
9.	05/03/22	Kuchaman City	Anwar Baghel	EHS Eng.	<i>[Signature]</i>	
10.	05/03/22	"	ATUL SINGH	Scitech Engr.	<i>[Signature]</i>	
11.	05/03/22	"	Ajith Dhar	ACM	<i>[Signature]</i>	
12.	05/03/22	"	Sayam Arjun	"	<i>[Signature]</i>	

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Attendance Sheet of Site Visit of Didwana and Ladnu Town on dated 04.03.2022

Attendance Sheet (Ladnu & Didwana)

S.No.	Date/Time	Location	Name	Occupation/ Designation	Signature	Remarks
(1)	04/03/2022	Ladnu	Sh. R.D. Garg	EX-En. RUIDP Ladnu		
(2)	04/03/2022	Ladnu	R.K. Singhal	Assist. Const. Manager cmc-cd	<i>[Signature]</i>	
(3)	04/03/2022	Ladnu	SHER MOHAMMED	Support Engineer	<i>[Signature]</i>	
(4)	04/03/2022	Ladnu	Vandana Srivastava	Environment Safeguard expert	<i>[Signature]</i>	
(5)	" "	Ladnu	Mami Kumari	Safeguard Support (Env. & Safety)	<i>[Signature]</i>	
(6)	04/03/2022	Ladnu	Jeevan Kumar Pk	EHSO L&T	<i>[Signature]</i>	
(7)	04/03/2022	Ladnu	S.K. SINGH	PM - L&T	<i>[Signature]</i>	
(8)	4/3/2022	Didwana	Robin Maprani	EHSO	<i>[Signature]</i>	

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Attendance Sheet of Public Consultation at ward no. 23 at Mandawa Town on dated 09.02.2022

Consultation with Stakeholders (Planning/Implementation Phase)

Project Town: Mandawa
 Date: 09/02/2022
 Name of the project: Water Supply & Sewer Connection
 Place of consultation: Ward No. 23

S.No.	Name and mobile no.	Designation and/or Address	Topics Discussed	Outcome of the consultation	Signature
1	Sh. Rakesh Salvi 9571119353	Ward No. 23	1. Awareness about the project 2. Present status of site/project 3. Status of water supply/ SWM/sewerage in town 4. Requirement of any tree cutting due to project 5. Presence/movement of wild fauna at project town/project sites	Community People Favour of Project	[Signature]
2	Sh. Parveen Singh	Ward - 23	6. Whether project is beneficial for citizens and increase citizen's convenience 7. Whether project is causing any livelihood impact to someone 8. Any historical or cultural monuments in town/near project sites 9. Any suggestion about the project 10. Any other relevant information found at site	" "	[Signature]
3	Sh. Hazi Ram ji	Ward - 23		" "	[Signature]
4	Sh. Prem Pal 9329342102	Ward - 23		" "	[Signature]
5	Sh. Niraj Kumar	Ward - 23		" "	[Signature]
6	Smt Mayadavi 7665196014	Ward - 23		" "	[Signature]
7					

Name and Signature of the person who done consultation: [Signature]

Consultation with Stakeholders (Planning/Implementation Phase)

Project Town: Mandawa
 Date: 09/02/2022
 Name of the project: Water Supply & Sewer Connection
 Place of consultation: Ward No. 23

S.No.	Name and mobile no.	Designation and/or Address	Topics Discussed	Outcome of the consultation	Signature
1	Vidhya Devi 7851809021	Ward - 23	1. Awareness about the project 2. Present status of site/project 3. Status of water supply/ SWM/sewerage in town 4. Requirement of any tree cutting due to project 5. Presence/movement of wild fauna at project town/project sites	Community People Favour of Project	[Signature]
2	Panna Devi	" "	6. Whether project is beneficial for citizens and increase citizen's convenience 7. Whether project is causing any livelihood impact to someone 8. Any historical or cultural monuments in town/near project sites 9. Any suggestion about the project 10. Any other relevant information found at site	" "	[Signature]
3	Puspha Devi	" "		" "	[Signature]
4	Nisha	" "		" "	[Signature]
5				" "	
6				" "	
7				" "	

Name and Signature of the person who done consultation: [Signature]

Consultation with Stakeholders (Planning/Implementation Phase)

Project Town: Mandawa
 Date: 09/02/2022
 Name of the project: Water Supply and Sewerage
 Place of consultation: Ward No. 23

S.No.	Name and mobile no.	Designation and/or Address	Topics Discussed	Outcome of the consultation	Signature
1	Vidhya Devi 7851809021	Ward - 23	1. Awareness about the project 2. Present status of site/project 3. Status of water supply/ SWM/sewerage in town 4. Requirement of any tree cutting due to project 5. Presence/movement of wild fauna at project town/project sites	Community People Favour of Project	[Signature]
2	Panna Devi 7665196014	Ward - 23	6. Whether project is beneficial for citizens and increase citizen's convenience 7. Whether project is causing any livelihood impact to someone 8. Any historical or cultural monuments in town/near project sites 9. Any suggestion about the project 10. Any other relevant information found at site	" "	[Signature]
3	Panna Devi 8094230942	Ward - 23		" "	[Signature]
4	Vandana 7050074506	" "		" "	[Signature]
5	Ritesh Kumar 9783775263	" "		" "	[Signature]
6	Vijay Kumar 9783654769	" "		" "	[Signature]
7				" "	

Name and Signature of the person who done consultation: [Signature]

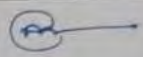
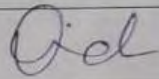
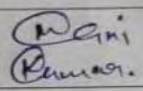
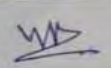
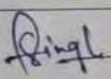
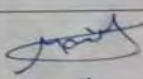
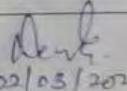
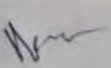
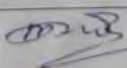
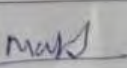
Attendance Sheet of Site Visit at Mandawa Town on dated 02.03.2022

Rajasthan Secondary Town Development Sector Project (RSTDSP) RUIDP-Phase-IV

CMSC-01

Attendance Sheet

Waste Water & Water Supply Project
 Name of the Project: RUIDP-Ph-IV-MANDAWA
 Name of Town: MANDAWA
 Name Of the Activity: Site Visit

Sr.No	Name	Designation	Contact No.	Signature
1	Ankit Kumar	J En.	9460086504	
2	A.K. Kahl.	Acms cmsc-01	9411405825	
3	Vardan Srivastava	Env. Safeguard Professional	798693533	
4	Mani Kumar	Environment Safety & Health Support	8360043914	
5	Yogesh k. Arora	Social Safety & Env. Spm	9460126777	
6	Himanshu Bhadaniya	QA/QC AMD	9580659696	
7	Tejesh Kumar	SoT	8432375846	
8	Manish Kumar Badrathar	Support Engineer	8949300173	
9	Deepak Kumar Ganucha	Support Engineer	9784581879	 02/03/2022
10	Devashree Neezay	Bill's In	8360172990	
11	Magraj Lodha	Site Engineer	9660134320	
12	Manoj Jyoti	Support Engineer	9785868515	

Attendance Sheet of Public Consultation at Zone 1B, Laxmangarh dated 27.07.21

DATE 27 07 2021

Project Name:- Rajasthan Secondary Towns Development Sector
Project - Water Supply Project in Laxmangarh Town,
District - Sikar, Rajasthan.

Public consultation sheet Date:- 27.07.2021

S.No. Name of Participant Time:- 5:00 PM

S.No.	Name of Participant	Occupation	Mobile	Signature
1.	Mohammad Akram	shopkeeper	- 9828574814	
2.	Mohammad Sakil	worker	- 9928335362	
3.	Mohammad Anis Qureshi	self-employed	- 7073869914	

Attendance Sheet of Public Consultation at Housing Board Colony, Sirohi dated 05.10.2021**PUBLIC CONSULTATION SIGNATURE SHEET****Project name:****Date** - 05/10/2021**Time:****Place:** Housing Board colony.

S.No.	Name of Participant	Occupation	Address	Signature	Phone Number
1.	Neeru Bala	Teacher	Ys -		9772838524
2.	Mrs. Soniya	Nursing. Medical	Y/331		901106879
3.	Heeralal Khatri	Retd. Govt. Servant	Y/347		9461303038
4.	Shweta Shrivastava	Housewife	Y/350		8005788825
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					

**Attendance Sheet of Public Consultation at Jajodiya Guest House Colony, Laxmangarh
dated 29.01.2022**

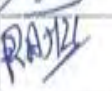
PUBLIC CONSULTATION SIGNATURE SHEET

Project Name: Rajasthan Secondary Towns Development Sector Project
(RSTDSP) - Laxmangarh Water Supply Subproject, District -
Sikar, Rajasthan

Date - 29/01/2022

Time: 12:30 pm.

Place: - Jajodiya ^{Guest house} Laxmangarh Street

S.No.	Name of Participant	Occupation	Address	Signature	Phone Number
1.	1. Bhagwati Prasad Jajodiya	Shopkeeper			9571450184
2.	2. Babulaji	"			8769071851
3.	3. Rajkumar	"			9024096040
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					

Attendance Sheet of Public Consultation at 4.6 MLD SPS Site Main Ginani (Ratangarh) 26.02.2022

PUBLIC CONSULTATION SIGNATURE SHEET

Project name: Rajasthan Secondary Towns Development Sector Project
(RSTDSP) - ~~Ratangarh~~ Sewerage Subproject, District -
Churu, Rajasthan

Date - 26.02.2022

Time: 5:00 PM

Place: New Basti

S.No.	Name of Participant	Occupation	Address	Signature	Phone Number
1.	Kaif	Construction			
2.	Ramjan	Student			
3.	Mena Bano	Housewife			8769358748
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					

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	Vailidity	Reported in which SEMR
1	2.3 MLD STP at Sardarshahar	Valid from 15.10.2020 to 30.09.2025 under Air Act Valid from 13.02.2021 to 31.01.2026 under Water Act	SEMR (October 2021 to March 2022)
2	3.4 MLD STP at Sardarshahar	Valid from 15.10.2020 to 30.09.2025 under Air Act Valid from 13.02.2021 to 31.01.2026 under Water Act	SEMR (October 2021 to March 2022)
3	2.3 MLD STP at Abhu Road	CTE Issued Valid from 15.02.2021 to 31.01.2026	SEMR (October 2021 to March 2022)
4	6.9 MLD STP at Abhu Road	CTE Issued Valid from 15.02.2021 to 31.01.2026	SEMR (October 2021 to March 2022)
5	10 MLD WTP in Abhu Road	CTE Issued Valid from 15.02.2021 to 31.01.2026	SEMR (October 2021 to March 2022)
6	1.7 MLD STP at Sirohi	CTE Issued Valid from 11.02.2021 to 31.01.2026	SEMR (October 2021 to March 2022)

B. Details of other permissions/NOCs

S.No.	Type of permission/NOCs and Town Name	Reported in which SEMR
1	Tree cutting permission at CWR site at Laxmangarh	SEMR (October 2021 to March 2022)
2	Tree cutting permission for CWR site at PHED Campus in Sardarshahar	SEMR (October 2021 to March 2022)
3	Tree cutting permission for STP site in Pratapgarh	SEMR (October 2021 to March 2022)
4	Tree Cutting permission for CRMC site at Pratapgarh	SEMR (October 2021 to March 2022)
5	Tree Cuttng permission for WTP site at PHED campus, Banswara	SEMR (October 2021 to March 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 : 106823
 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, 2B, 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:

Particular	Type	Quantity / Capacity
Sewage Treatment Plant	Service	3,800.00 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 Nirej 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)/Churn(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 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: 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)/2020-2021/400-410
Order No : 2021-2022/Liquid Waste/1228
Unit Id : 106923
Dispatch Date: 03/06/2021

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, 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: 2021.07.06 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, 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: 2021.07.05 12:38:36 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(Ratangarh)/1764(1)/2020-2021/1055-1057

Order No : 2021-2022/Liquid Waste/1240

Dispatch Date: 05/07/2021

Unit Id : 106823

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: SelfAttested
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
Unit Id : 106650
Dispatch Date: 03/06/2021

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 to 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 RLD

- 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: 2021.06.06 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

- 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: 2021.06.06 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 ⁰⁰⁴ 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, 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

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 ⁰⁰⁴ 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: 2021.06.03 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)/62(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: 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)/Sirobi(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 : 109650

This bears the approval of the competent authority.

Yours Sincerely

Group Incharge[Liquid Waste]

(A). Copy To:-

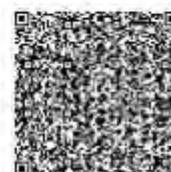
- 1 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Pali to ensure compliance of conditions of CTE
- 2 Master File

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 PBED 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.

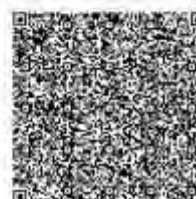
Particular	Type	Quantity / Capacity
WATER TREATMENT PLANT	Service	9.00 MILLION LITRES/ DAY

- 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

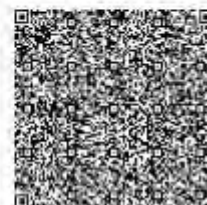
Unit Id : 110752

- 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: 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

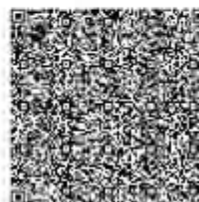
Unit Id : 110752

- 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:-

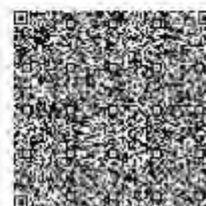
1 Master File

EE

Page 4 of 4

Signature Not Verified

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

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 8:48:13 IST
 Reason: Self Attested
 Location:





Regional Office Banswara
Rajasthan State Pollution Control Board
 Choudhary Campus, Near Durga Petrol Pump,
 Dahod Road, Thilwariya, 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, Thilariya, 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

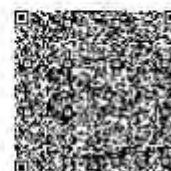
Unit Id : 113267

- 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 18:46:13 IST
 Reason: Self Attested
 Location:





Regional Office Banswara
Rajasthan State Pollution Control Board
 Choudhary Campus, Near Durga Petrol Pump,
 Dahod Road, Thilcariva, 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

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 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 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 Pratapgarh



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
 Unit Id : 111078
 Dispatch Date: 07/06/2021

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** 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, 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: 2021.06.07 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

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: SelfAttested
 Location:





Environmental Monitoring Report

Project Number: 42267-031
Semestral Report: October 2021 – March 2022
November 2022

India: Rajasthan Secondary Towns Development Sector Project

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

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

This environmental monitoring report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature.

In preparing any country program or strategy, financing any project, or by making any designation of or reference to a particular territory or geographic area in this document, the Asian Development Bank does not intend to make any judgments as to the legal or other status of any territory or area.

Asian Development Bank



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, 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 14:49:14 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(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, 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 14:49:14 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.

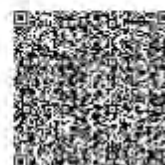
Particular	Type	Quantity / Capacity
Sewage Treatment Plant	Service	7,600.00 KLD

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: 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(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 : 109843

- 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 14:48:28 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 : 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: 2021.03.28 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: 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

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: 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

- 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, 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: 2021.03.09 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 RE 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	7700.000 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, 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: 2021.03.26 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, to 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
 Unit Id : 110250
 Dispatch Date: 05/03/2021

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 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.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: 2021.03.05 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: 0141-2716852⁰⁰⁴ 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

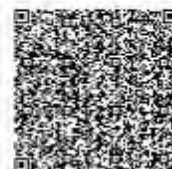
- 9 That no treated/untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/ other gainful purposes
- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the 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: 2021.03.08 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

- 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 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. 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: 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 : 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

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Signature Not Verified

Digitally signed by Niraj Mathur
 Date: 2021.03.08 12:06:24 IST
 Reason: SelfAttested
 Location:



APPENDIX 4: ENVIRONMENTAL SITE INSPECTION REPORTS#**Report 1**

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP)		CONTRACT NUMBER: / RSTDIP/LDN-DID-MKN/ 01			
Sub-project Name – Integrated Sewerage Network					
DATE: 22/12/2021		SECTOR: Water and Sewage			
LOCATION (Name of Sites Visited): MakranaTown		Contractor: M/s L&T			
PROJECT ACTIVITY: Sewer pipe laying/ STP		Project Activity Stage- Construction Stage Site visit has done by- Mr. Vardan Srivastava; Environmental Safeguard Professional, CMSC-I & Mr. Mani Kumar; Safeguard Support (Env. & Safety), CMSC-I			
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 2

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP)		CONTRACT NUMBER: RSTDIP/LDN-DID-MKN/ 01			
Sub-project Name – Sewer Network and House Connections					
DATE: 05/03/2022		SECTOR: Sewage Network			
LOCATION (Name of Sites Visited): Makrana Town		Contractor: M/s L&T			
PROJECT ACTIVITY: SBR wall rebar reinforcement work at STP area/Slab Shuttering work at CRMC building		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-DID-MKN/ 01			
Sub-project Name – Sewer Network and House Connections					
DATE: 04/03/2022		SECTOR: Sewage Network			
LOCATION (Name of Sites Visited): Ladnu Town		Contractor: M/s L&T			
PROJECT ACTIVITY: SBR Raft rebar reinforcement work at STP area/Sewer laid Bada Bas area/ Brick work at CRMC 02 Building area		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	YES	NO
				NA	PI

Implemented(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 4

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP)		CONTRACT NUMBER: RSTDIP/LDN-DID-MKN/ 01			
Sub-project Name – Sewer Network and House Connections					
DATE: 04/03/2022		SECTOR: Sewage Network			
LOCATION (Name of Sites Visited): Didwana Town		Contractor: M/s L&T			
PROJECT ACTIVITY: SBR Raft rebar reinforcement work at STP area/Road cutting work		Project Activity Stage- Construction Stage Site visit has done by- Mr. Vardan Srivastava (Environmental Safeguard Professional), CMSC-01 & Mr. Mani Kumar; Safeguard Support (Environment & Safety), CMSC-01			
Monitoring Items		Compliance			
Compliance marked as Yes/No/Not applicable(NA)/Partially Implemented(PI)		YES	NO	NA	PI
EHS supervisor appointed by contractor and available on site		✓			
Construction site management plan (spoils, safety, schedule, equipment etc.,) prepared		✓			
Traffic management plan prepared		✓			
Dust is under control		✓			
Excavated soil properly placed within minimum space		✓			
The construction area is confined; no traffic/pedestrian entry was observed		✓			
Surplus soil/debris/waste is disposed of without delay		✓			
Construction material (sand/gravel/aggregate) brought to the site as & when required only					✓
Tarpaulins used to cover sand & other loose material when transported by vehicles					✓
After unloading , wheels & undercarriage of vehicles cleaned prior to leaving the site			✓		
No chance finds encountered during excavation		✓			
Work is planned in consultation with traffic police		✓			
Work is not being conducted during heavy traffic		✓			
Work at a stretch is completed within a day (excavation, pipe laying & backfilling)		✓			
Pipe trenches are not kept open unduly		✓			
Road is not completely closed; work is conducted on edge; at least one line is	✓				

kept open				
Road is closed; alternative route provided & public informed, information board provided	✓			
Pedestrian access to houses is not blocked due to pipe laying	✓			
Spaces left in between trenches for access	✓			
Wooden planks/metal sheets provided across trench for pedestrian				✓
No public/unauthorized entry observed in work site	✓			
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 5

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP)		CONTRACT NUMBER: RSTDIP/KMN/02			
Sub-project Name – Integrated Water Supply & Sewerage Network					
DATE: 03/12/2021		SECTOR: Water and Sewage			
LOCATION (Name of Sites Visited): Kuchaman Town		Contractor: M/s L&T			
PROJECT ACTIVITY: Sewer pipe laying/Water Pipe laying/STP		Project Activity Stage- Construction Stage Site visit done by- Mr. Vardan Srivastava; Environmental Safeguard Professional, CMSC-I & Mr. Mani Kumar; Safeguard Support (Env. & Safety), CMSC-I			
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	✓			
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	✓			
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 6

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP)		CONTRACT NUMBER: RSTDIP/KMN/02			
Sub-project Name – Water Supply and Sewer Network with House Connections					
DATE: 05/03/2022		SECTOR: Water Supply and Sewage Network			
LOCATION (Name of Sites Visited): Kuchaman Town		Contractor: M/s L&T			
PROJECT ACTIVITY: Structural excavation work at STP area/Structural rebar reinforcement work at CWR area		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 7

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP)		CONTRACT NUMBER: RSTDIP/MDW/03			
Sub-project Name – Water Supply and Sewerage Project					
DATE: 09/02/2022		SECTOR: Water and Sewage			
LOCATION (Name of Sites Visited): Mandawa Town		Contractor: M/s LNA-R&B (JV)			
PROJECT ACTIVITY: Sewerage & Water pipeline laying/ MPS raft reinforcement work/SPS Inlet wall reinforcement work		Project Activity Stage- Construction Stage Site visit has done by- Mr. Abhey Srivastava (Environmental Safeguard Specialist) PMCBC, Mr. Vardan Srivastava (Environmental Safeguard Professional), CMSC-I & Mr. Mani Kumar; Safeguard Support (Environment & Safety), CMSC-I			
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			✓	
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Summary of safeguard compliance of contractor- Contractor is taking preventive measures during the construction work but need more attention towards the site safety and environmental related issues

Overall performance of contractor- Partially Satisfactory

Report 8

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP)		CONTRACT NUMBER: RSTDIP/MDW/03			
Sub-project Name – Water Supply and Sewerage Project					
DATE: 02/03/2022		SECTOR: Water and Sewage			
LOCATION (Name of Sites Visited): Mandawa Town		Contractor: M/s LNA-R&B (JV)			
PROJECT ACTIVITY: MPS First lift casting went on /SPS Shuttering work		Project Activity Stage- Construction Stage Site visit has done by- Mr. A.K. Rahul, Assistant Contract Management Specialist (ACMS), CMSC-01, 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 9

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project Sub-project Name – Abu Road water supply and Sewerage Works		CONTRACT NUMBER: RSTDIP/SHR-ABR/01			
DATE: 06.10.2021		SECTOR: Water and Sewerage			
LOCATION (Name of Sites Visited): Site visit to 2.3 MLD Sewerage Treatment Plant Manpur, Aburoad and visit to Water Treatment Plant & Sewerage Treatment Plant at Sanatpur		Contractor: Larson and Turbo Pvt. Ltd.			
WEATHER: Sunny and Clear		Project Activity Stage-			
PROJECT ACTIVITY: Sewage pipe laying and STP work		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: 10

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project		CONTRACT NUMBER: RSTDIP/RTG-FTP-LXG/01			
Sub-project Name – Fatehpur Sewerage Works					
DATE: 25.02.2022		SECTOR: Sewerage			
LOCATION (Name of Sites Visited): Site Visit to 4.3 MLD STP at Nari –Bari Road, Labour Camp and 0.6 MLD SPS near Akshya Masid, Fatehpur		Contractor: Larson and Turbo Pvt. Ltd.			
WEATHER: Sunny and Clear		Project Activity Stage-			
PROJECT ACTIVITY: Sewerage (STP and SPS) works.		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- Partially Satisfactory

Report: 11

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project		CONTRACT NUMBER: RSTDIP/RTG-FTP-LXG/ 01			
Sub-project Name – Fatehpur Sewerage Works					
DATE: 23.12.2021 and 24.12.2021		SECTOR: Sewerage			
LOCATION (Name of Sites Visited): SPS site behind dholi sati temple,		Contractor: Larson and Turbo Pvt. Ltd.			
WEATHER: Sunny and Clear		Project Activity Stage-			
PROJECT ACTIVITY: Sewerage (SPS) works and pipe laying.		Site visit done by- Dr. Mahaveer Saini, Environment Professional, CMSC-II			
Monitoring Items		Compliance			
Compliance marked as Yes/No/Not 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		✓			
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: 12

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project		CONTRACT NUMBER: RSTDIP/RTG-FTP-LXG/01			
Sub-project Name – Laxmangarh Water Works					
DATE: 26.02.2022		SECTOR: Water Supply			
LOCATION (Name of Sites Visited): Site Visit to AEN Campus (CWR and CRMC Buidling) Badke Balaji Head Works (CWR) and Labour Camp (Laxmangarh).		Contractor: Larson and Turbo Pvt. Ltd.			
WEATHER: Sunny and Clear		Project Activity Stage-			
PROJECT ACTIVITY: CWR and CRMC Construction work.		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- Partially Satisfactory

Report: 13

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project		CONTRACT NUMBER: RSTDIP/RTG-FTP-LXG/01			
Sub-project Name – Ratangarh Sewerage Works					
DATE: 26.02.2022		SECTOR: Sewerage Work			
LOCATION (Name of Sites Visited): Site Visit to BSNL Office Ginani (3.8 MLD SPS), Main Ginani (4.60 MLD SPS) and 3.8 MLD STP (Ratangarh).		Contractor: Larson and Turbo Pvt. Ltd.			
WEATHER: Sunny and Clear		Project Activity Stage-			
PROJECT ACTIVITY: Sewerage works and STP work.		Site visit done by- Dr. Mahaveer Saini, Environment Professional, CMSC-II			
Monitoring Items		Compliance			
Compliance marked as Yes/No/Not 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		✓			
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- Partially Satisfactory

Report: 14

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project Sub-project Name – Sirohi water supply and Sewerage Works	CONTRACT NUMBER: RSTDIP/SHR-ABR/01
DATE: 05.10.2021	SECTOR: Water and Sewerage
LOCATION (Name of Sites Visited): Site visit to 2.3 MLD Sewerage Treatment Plant Manpur, Aburoad and visit to Water	Contractor: Larson and Turbo Pvt. Ltd.

Treatment Plant & Sewerage Treatment Plant at Sanatpur				
WEATHER: Sunny and Clear	Project Activity Stage-			
PROJECT ACTIVITY: Sewage pipe laying and STP work	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
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- Partially Satisfactory

Report: 15

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project		CONTRACT NUMBER: RSTDIP/SRD/01			
Sub-project Name – Sardarshahar Sewerage and Water Works					
DATE: 22.12.2021 and 23.12.2021		SECTOR: Water and Sewerage work			
LOCATION (Name of Sites Visited): 2.3 CWR and CRMC Building in PHED Campus, 3.4 MLD STP in North Campus of Gaushala, 2.3 MLD STP in South Campus of Gaushala and 2.3 MLD SPS site		Contractor: Larson and Turbo Pvt. Ltd.			
WEATHER: Sunny and Clear		Project Activity Stage-			
PROJECT ACTIVITY: Sewerage (STP) and water (WTP) works and pipe laying of both.		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- Partially Satisfactory

APPENDIX-5: COMPLIANCES OF ENVIRONMENTAL SELECTION CRITERIA

Components	Criteria	Design Considerations (if criterion is not met)	Compliance Status
All subprojects			
	Subproject will avoid potentially significant adverse impacts that are diverse, irreversible or unprecedented (ADB SPS Category A for environment).		Complied- All projects are under category B as per ADB SPS, no significant impact is envisaged from any sub project
	Comply with all requirements of ADB SPS 2009 and follow procedures set in this EARF.		Complied- EARF and ADB SPS is being complied in all sub projects
	Comply with relevant national, and local laws, rules and regulations regarding EIA, environmental protection, pollution		Complied- Compliance of all relevant national and

	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		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 ¹⁷	Complied- Consultations are being done in all stages of project
Location	Avoid involuntary resettlement by prioritizing rehabilitation over new construction using vacant government land where possible, and taking all possible measures in design and selection of site or alignment to avoid resettlement impacts	If cannot be avoided, prepare Resettlement Plan.	Complied- Only temporary impacts on livelihood is anticipated in sub projects for which Resettlement Plan is prepared
	Avoid or minimize the cutting of trees	If tree is to be cut, consider plantations in the ratio of at least 1:3	Being Complied- Tree cutting permission is being taken, where tree cutting is required, compensatory plantations will be done in the ratio of at least 1:3
Biodiversity	Avoid locating subprojects in critical habitats, such as, but not limited to, wildlife/bird sanctuaries, national parks, tiger reserves, elephant reserves, conservation reserves or core zone of biosphere reserves. 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	If criterion is not met, this is potential for Category A therefore alternate location should be considered. A Biodiversity Expert shall assess and confirm critical habitat qualification. Appendix 2 provides a Biodiversity Assessment Report prepared for a sample subproject (Abu Road water and sewerage subproject).	Complied- There are no ecological sensitive areas within the areas of project impact
	If work is proposed with the aim of improving the conservation or		Not applicable

¹⁷ 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”

	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.		
Physical Cultural Resources	Should not result in the destruction/damage of or encroachment onto physical cultural resources (PCR) ¹⁸ 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 be rehabilitated or expanded	Conduct environmental audit of existing facilities ¹⁹ per ADB SPS	For non-compliances identified in the environmental audit, provide corrective action for each area of concern including cost and schedule to be included in the subproject EMP.	Complied- Environmental audit of existing facilities has been done, where rehabilitation or upgradations works are proposed
Associated Facilities ²⁰	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,	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.	If ACM is suspected, asbestos verification by Asbestos Management Expert is required. Prepare site-specific asbestos management plan (AMP) prepared.	Being Complied-AC pipes are not being used in the project and ACM management plan is being prepared in all sub projects where

¹⁸ 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.”

¹⁹ ADB SPS Appendix 4 para 12 on Existing Facilities

²⁰ 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”

roofing, ceilings, insulation materials, excess pipes stored in PHED campuses, walls, etc.	RUDSICO shall include AMP in all contracts.	Appendix 4 provides a sample AMP prepared for a sample subproject (Sardarshahar water and sewerage subproject).	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 significant reductions in the quantity or quality of the source overall)	Water source sustainability or the concurrence from PHED should be provided in the subproject's IEE. Submit groundwater sustainability report and obtain permission from the Central Groundwater Board or the State Groundwater Board.	Complied- Ground water sustainability reports are obtained from ground water department, where ground water is being used as source
Quality (raw water, treated water)	Ensure that water supply to consumers comply with the national drinking water standards at all times and confirm this by regular monitoring at WTPs and in domestic premises.		Being Complied- WTPs are designed as per applicable standards for drinking waters and regular monitoring shall be done during operation
	Avoid using water sources that may be polluted by upstream users	Baseline raw water quality to be included in the IEE.	Complied- Raw water is being drawn where no pollution from upstream users
	Avoid water-use conflicts by not abstracting water that is used for other purposes (e.g. irrigation)	If there are other users, permits or clearance for the allocation should be provided in the IEE.	Complied
Location	As for 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		Complied- all new facilities are away from houses, shops or other premises as far as possible

	reduce the effects of noise, dust and the visual appearance of the site.		
	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 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).	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 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	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
	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	Complied- SPS and well wells are designed at least 50 mts away from habitations and sensitive receptors

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

APPENDIX-6: PHOTOGRAPHS AND ATTENDANCE SHEETS OF SAGEGUARD ORIENTATIONS AND TRAININGS (During October 2021 to March 2022)

(by Environment Specialist, PMCBC and Environment Professional, CMSCs)



Safeguard Orientation at Makrana Town on dated 22/12/2021



Safeguard Orientation at Makrana Town on dated 05/03/2022



Safeguard Orientation at Ladnu Town on dated 04/03/2022



Safeguard Orientation at Didwana Town on dated 04/03/2022



Safeguard Orientation at Kuchaman Town on dated 03/12/2021



Safeguard Orientation at Kuchaman Town on dated 05/03/2022



Safeguard Orientation at Mandawa Town on dated 09/02/2022



Safeguard Orientation at Mandawa Town on dated 02/03/2022

	
Photograph of Safeguard Orientation/Safety Training Orientation at Jajodiya Guest House Colony, Laxmangarh 29.01.2022	Photograph Safety Training Orientation at CRMC Building site in Manashi, Laxmangarh, 29.01.2022
	
Photograph of Safety Training Orientation at Badke Balaji Head Works PHED, Laxmangarh 29.01.2022	Photograph of Safety Training Orientation at Badke Balaji Head Works PHED, Laxmangarh 29.01.2022
	
Photograph of Safeguard Orientation/Training at Fatehpur Dated 25.02.2022	Photographs of Training Orientation at at 4.6 MLD SPS Site Main Ginani (Ratangarh) 26.02.2022



Photographs of Onsite Training Orientation of at 3.8 MLD STP Site Near Old NH-11 (Ratangarh) 21.12.2021



Photographs of Onsite Training Orientation of at 3.8 MLD STP Site Near Old NH-11 (Ratangarh) 21.12.2021



Photographs of Training Orientation at 1.7 MLD STP Woking Site on Revdar Road, Sirohi 05.10.2021



Photographs of Training Orientation at 1.7 MLD STP Woking Site on Revdar Road, Sirohi 05.10.2021

**Attendance sheet of Safeguard Orientation/Training at Kuchaman and Makrana on Dated
05.03.2022**

Attendance Sheet (Makrana & Kuchaman)						
S.No.	Date/Time	Location	Name	Occupation / Designation	Signature	Remarks
1						
2.	05-03-2022	Makrana	ARUN KANOJIYA	ACM	<i>Ar</i>	
3	05/03/2022	Makrana	Vandana Srinivastava	Environment Safeguard Post	<i>Vandana</i>	
4.	05/03/2022	Makrana	Mani Kumar	Safeguard Support (Env. & Safety)	<i>Mani Kumar</i>	
5.	05/03/2022	Makrana	BNSHUKLA	CM	<i>BNSHUKLA</i>	
6.	05/03/2022	Makrana	RAVINDER KUMAR	ASST. CONST. MGR.	<i>Ravi</i>	
7	05/03/2022	Kuchaman	Shahmurti Hasan	PM (L&T)	<i>Shahmurti</i>	
8.	05/03/22	Kuchaman City	Bhajan Lal Meena	Social Safeguard & Support (Env. & Safety)	<i>Bhajan</i>	
9.	05/03/22	Kuchaman City	Anurag Baghel	EHS Eng.	<i>Anurag</i>	
10.	05/03/22	"	ATUL SINGH	SENIOR ENGINEER	<i>Atul</i>	
11.	05/03/22	"	Ajit Dhole	ACM	<i>Ajit</i>	
12	05/03/22	"	Sayam Arjun	"	<i>Sayam</i>	

**Attendance sheet of Safeguard Orientation/Training at Didwana and Ladnu on Dated
04.03.2022**

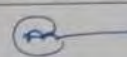
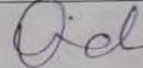
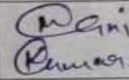
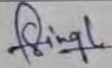
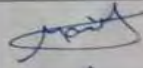
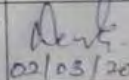
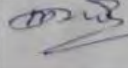
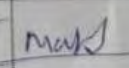
Attendance Sheet (Ladnu & Didwana)						
S.No.	Date/Time	Location	Name	Occupation / Designation	Signature	Remarks
(1)	04/03/2022	Ladnu	Sh. R.D. Garg	EX-EN. RUIDP Ladnu		
(2)	04/03/2022	Ladnu	R.K. Singhal	ASST. CONST. Manager cmc-o	<i>R.K. Singhal</i>	
(3)	04/03/2022	Ladnu	SHER MOHAMMED	Support Engineer	<i>Sher</i>	
(4)	04/03/2022	Ladnu	Vandana Srinivastava	Environment Safeguard Post	<i>Vandana</i>	
(5)	" "	Ladnu	Mani Kumar	Safeguard Support (Env. & Safety)	<i>Mani Kumar</i>	
(6)	04/03/2022	LADNU	Jeetan Kumar Pk	EHSO L&T	<i>Jeetan</i>	
(7)	04/03/2022	Ladnu	S.K. SINGH	PM - L&T	<i>S.K. Singh</i>	
(8)	4/3/2022	Didwana	Robin Maprani	EHSO	<i>Robin</i>	

Attendance sheet of Safeguard Orientation/Training at Mandawa Town on Dated 02.03.2022

Rajasthan Secondary Town Development Sector Project (RSTDSP) RUIDP-Phase-IV

CMSC-01Attendance Sheet

Waste Water & Water Supply Project.
 Name of the Project: RUIDP - Ph-IV - MANDAWA
 Name of Town: MANDAWA
 Name Of the Activity: Site Visit

Sr.No	Name	Designation	Contact No.	Signature
1	Ankit Kumar	J En.	9460086504	
2	A.K. Kahul.	Acms CMSC-01	9414055625	
3	Vandana Srivastava	Env. Safeguard Professional	7986939303	
4	Mani Kumar	Environment Safety Officer	8360043914	
5	Yogesh K. Arora	Social Safety & Env. Spm	9460126777	
6	Himanshu Bhadaniya	QA/QC AMD	9580659696	
7	Indira Kumari	SOT	8432375846	
8	Manish Kumar Badrachar	Support Engineer	8943200173	
9	Deepak Kumar Ganchha	Support Engineer	9789581879	 02/03/2022
10	Devashree Neejay	Billing In	8360172990	
11	Magesh Kumar	Site Engineer	9660134320	
12	Manoj Jyoti	Support Engineer	9785868515	

Attendance sheet of Safeguard Orientation/Training at Fatehpur Dated 25.02.2022**Attendance Sheet for Safety Training/Orientation**

Name of Project: Rajasthan Secondary Towns Development Sector Project
(RSTDSP) - Fatehpur Sewerage Subproject, District -
Fatehpur, Rajasthan

Orientation/Training Topic: Environment Health and Safety Training

Date: 25/02/2022

Time: 3:00 pm

Place: STP Site, Nain Bari Road

<u>S.No</u>	<u>Participant</u>	<u>Depart. /Agency</u>	<u>Designation</u>	<u>Mobile Number</u>	<u>Signature</u>
1	Shilendra	Boorman	Foreman	6350200429	[Signature]
2	delip Kumar		Carpenter	592799572	[Signature]
3	Surgesh		"	9068678198	[Signature]
4	Narendar		"	6374952694	[Signature]
5	Suresh Kumar		"	9571032493	Suresh
6	Indrajit		"	7891966275	[Signature]
7	Jagdish		Helper	8875291452	[Signature]
8	Shankar		Helper	7232012282	[Signature]
9	Omprakash		"	Omprakash	9626175111
10	Ajay Kumar		"	9636175111	[Signature]
11	Kalicharan		"	6302589956	[Signature]
12			"		

**Attendance Sheet and photographs of Training Orientation at 4.6 MLD
SPS Site Main Ginani (Ratangarh) dated: 26.02.2022**

Attendance Sheet for Safety Training/Orientation

Name of Project: Rajasthan Secondary Towns Development Sector Project
(RSTDSP) - ~~Ratangarh~~ Sewerage Subproject, District -
~~Ratangarh~~ Rajasthan

Orientation/Training Topic: Environment Health and Safety Training

Date: 26/02/22

Time: 5:00 PM

Place: SPS 4.6 MLD Ratangarh

S.No	Participant	Depart. /Agency	Designation	Mobile Number	Signature
1	सुभास	Minister	M	8239287688	सुभास
2	राम सिंह	Minister	Minister	9699721582	राम सिंह
3	परमेश्वर			-	
4	अर्जुन			-	अर्जुन
5	बुद्धाराज			-	बुद्धाराज
6	विपिन			8000422247	विपिन
7					
8					

**Attendance Sheet of Worker Participants in Training Orientation at 1.7 MLD, Sirohi
dated: 05.10.2021**

Attendance Sheet for Safety Training/Orientation

Name of Project: - 1.7 MLD STP on Revdar Road, Sirohi

Orientation/Training Topic: Environment Health and Safety Training

Date: 05-10-2021

Time:

Place: 1.7 MLD STP Site

S.No	Participant	Depart. /Agency	Designation	Mobile Number	Signature
1	M.D. Musso	LKT	Labour	8080248131	AK
2	Muzafar Ali	LKT	Labour	8169245895	MN
3	Kasim Adi	LKT	Labour	7208619657	KASIM
4	Shiv Kumar	LKT	Labour	7317457107	SHIV KUMAR
5	Zakir	LKT	Labour	8169768492	ZAKIR
6	Sharifdin	LKT	Labour	637600579	
7	Mansur Ali	LKT	Labour	8080248131	MANSUR
8	M.D. Samsum	LKT	Labour	8169768492	Samsum
9	Nazim	LKT	Labour	9715691168	NAZIM
10	Dharmender Kumar	LKT	Labour	9341251924	DHARMENDER
11	Rahibhussim	LKT	Labour	7779892926	RAHIBHUSSIM
12	Vinod Kumar	LKT	Labour	620422402	VINOD KUMAR
13	Saggar Ali	LKT	Labour	9625662298	SAGGAR

Ratangarh Town

DATE 21 12 2021

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

<u>No.</u>	<u>Name of Participants</u>	<u>Signature</u>
1	Basant Rekwal s/o Muniram - Worker	
2	Ramu Rekwal s/o Mukesh Rekwal - Worker	शिव 24/12
3	Mamku s/o Kishan Lal - Worker	12
4	Sukhwasi s/o Braj Lal - Worker	24/12/21

**Attendance sheet of Safeguard Orientation/Safety Training Orientation
at Badke Balaji Head Works PHED, Laxmangarh 29.01.2022**

Attendance Sheet for Safety Training/Orientation

Name of Project: Rajasthan Secondary Towns Development Sector Project
(RSTDSP) – Laxmangarh Water Supply Subproject, District -
Sikar, Rajasthan

Orientation/Training Topic: Environment Health and Safety Training

Date: 29/01/2022

Time: - 4:14

Place: Badke Balaji - Head works, Laxmangarh

S.No	Participant	Depart. /Agency	Designation	Mobile Number	Signature
1	Sokat Ali		Labour	70236698 93	सोकट
2	Nashir		Labour	87698938 -14	नशीर
3	Ravi Kumar		Mason	9057744 -02	रवि
4	Mahendra Kumar		Mason	98284276 -18	महेंद्र
5	Sakil		Mason	98293988 -96	सकील
6	Shymal		Mason	8619105067	श्यामल
7	Pharuk		Labour	-	फारुक
8					
9					
10					
11					
12					

**Attendance sheet of Safeguard Orientation/Safety Training Orientation
at Jajodiya Guest House Colony, Laxmangarh 29.01.2022**

Attendance Sheet for Safety Training/Orientation

Name of Project: Rajasthan Secondary Towns Development Sector Project
(RSTDSP) – Laxmangarh Water Supply Subproject, District -
Sikar, Rajasthan

Orientation/Training Topic: Environment Health and Safety Training

Date: - 29/01/2022

Time: (1:30 PM)

Place: - Jajodiya Guest House Street, Laxmangarh

S.No	Participant	Depart. /Agency	Designation	Mobile Number	Signature
1	Neta Devi Dhangri	-	Labour	-	-
2	Jangu Devi	-	Labour	9179968 79	-
3	Mukesh Philwal	-	Labour	7470637 212	29/01
4	Kalash	-	"	965372 6863	29/01
5	Ramya	-	"	9179968 79	29/01
6	Kalash Dhanor	-	"	9179056 814	29/01
7	Omji	-	-	72249937 58	29/01
8	Fatoh	-	"	8305465 824	29/01
9	Chhatar Singh	-	"	-	29/01
10					
11					
12					

**Attendance sheet of Safeguard Orientation/Safety Training Orientation at
CRMC Building, Manashi, Laxmangarh 29.01.2022**

Attendance Sheet for Safety Training/Orientation

Name of Project: Rajasthan Secondary Towns Development Sector Project
(RSTDSP) – Laxmangarh Water Supply Subproject, District -
Sikar, Rajasthan

Orientation/Training Topic: Environment Health and Safety Training

Date: 29/

Time: 2:30 pm

Place: - CRMC Building, Manashi (Laxmangarh)

S.No	Participant	Depart. /Agency	Designation	Mobile Number	Signature
1	Anil Kumar		Labour (Mason)	- 9587587846	अनिल
2	Uinod Kumar		- Mason	- 7568910127	विनोद
3	Subhakaran	-	Labour	- 8290316633	सुभाकर
4	Samin Kureshi		" (Mason)	- 89553776	समीर
5	Shyam Lal		Mason	8290188809	श्याम लाल
6	Deepak Kumar		Mason	- 8742 7742676762	दीपक कुमार
7	Ankit Kumar		Labour	- 8306946491	Ankit Kumar
8					
9					
10					
11					
12					

APPENDIX 7:EHS ACTIVITIES BY DIFFERENT CONTRACTORS DURING REPORTING PERIOD (October 2021 to March 2022)**Didwana and Makrana Town****Mask Distribution to Site Workers****Covid-19 Vaccination Stickers**



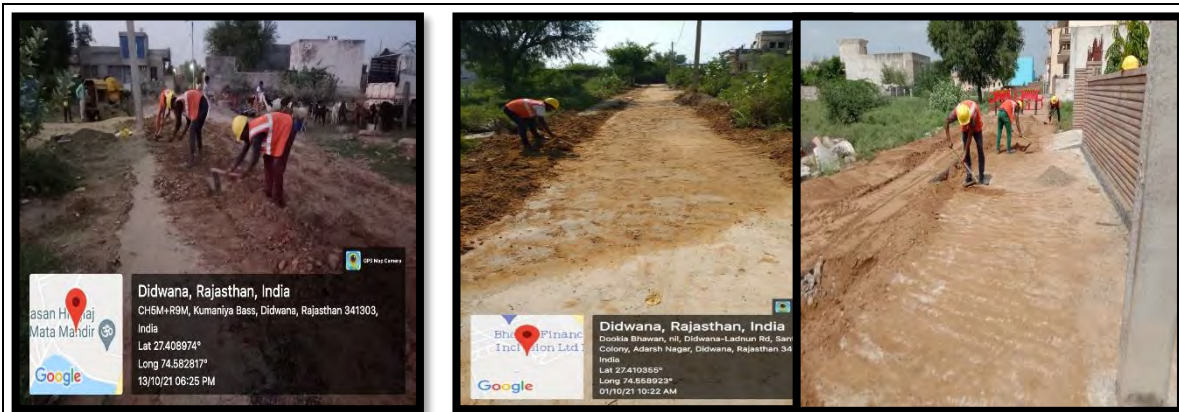
Medical Health Checkup of Workers



EHS Induction Training - Workers



Safety Alert Training



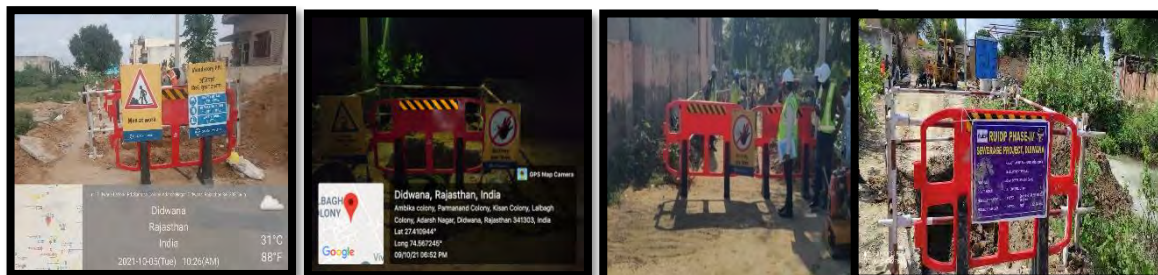
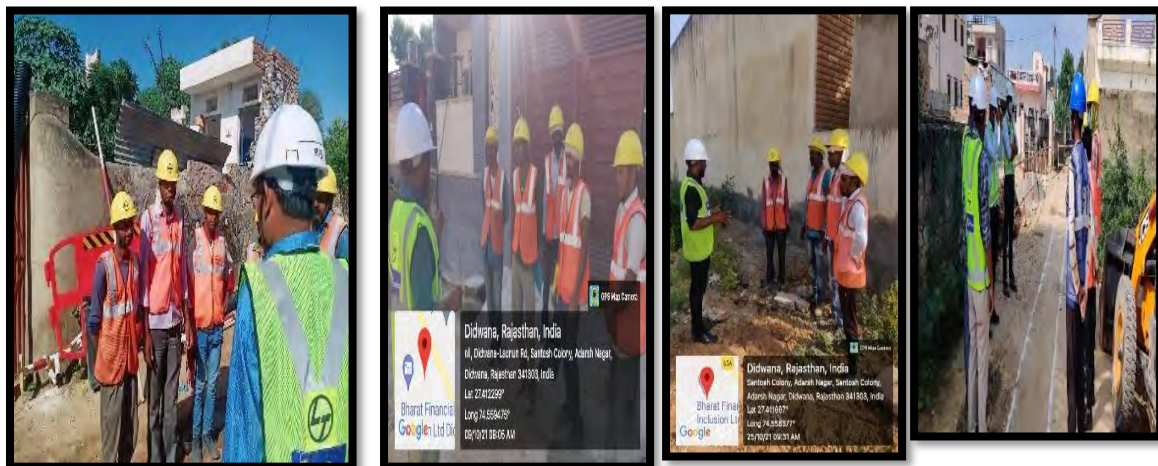
Site Housekeeping Work



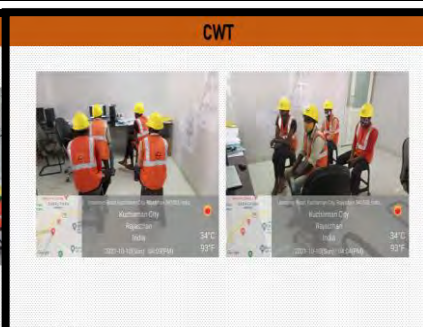
Contractor Workmen Safety Training



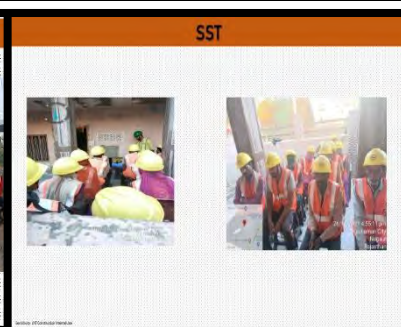
Fogging

Good Practices – Storage**Good Practices – Machine Guarding****Good Practices – Barricading****Good Practices – Tool Box Talk**

Kuchaman Town



Excavation & Electrical Safety



Working on Road & Material Handling Safety



Mock Drill

Ladnu Town



AIDS Awareness Camp

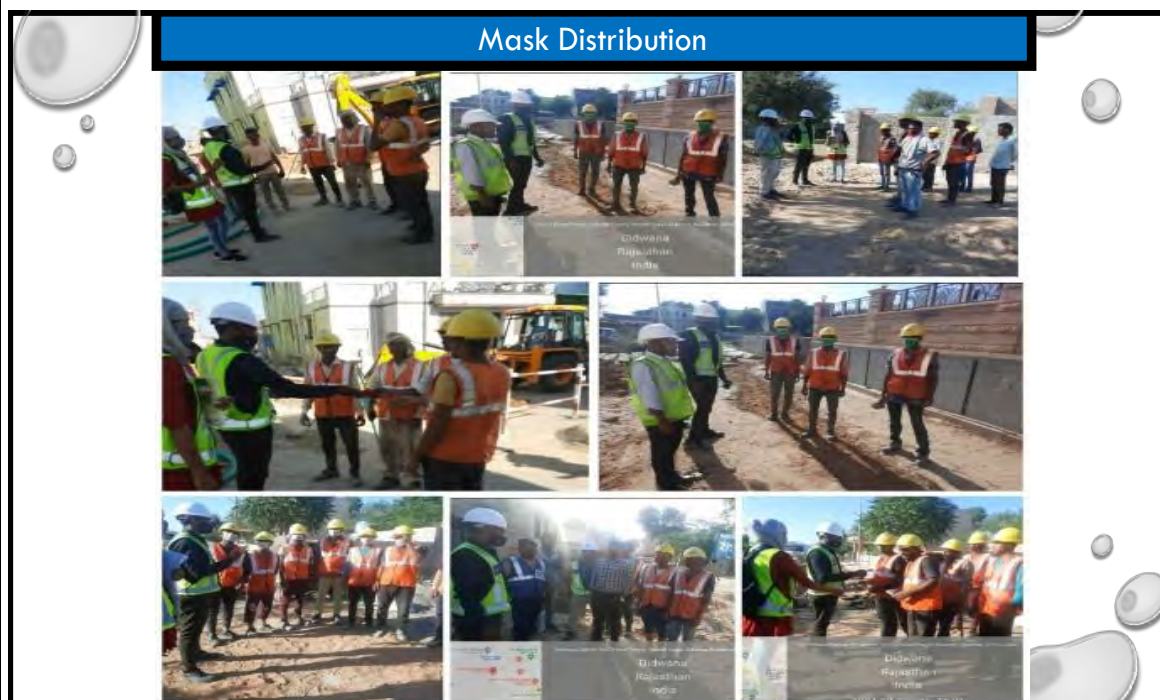


Covid Vaccination for Workmen



Fogging & Disinfection activities

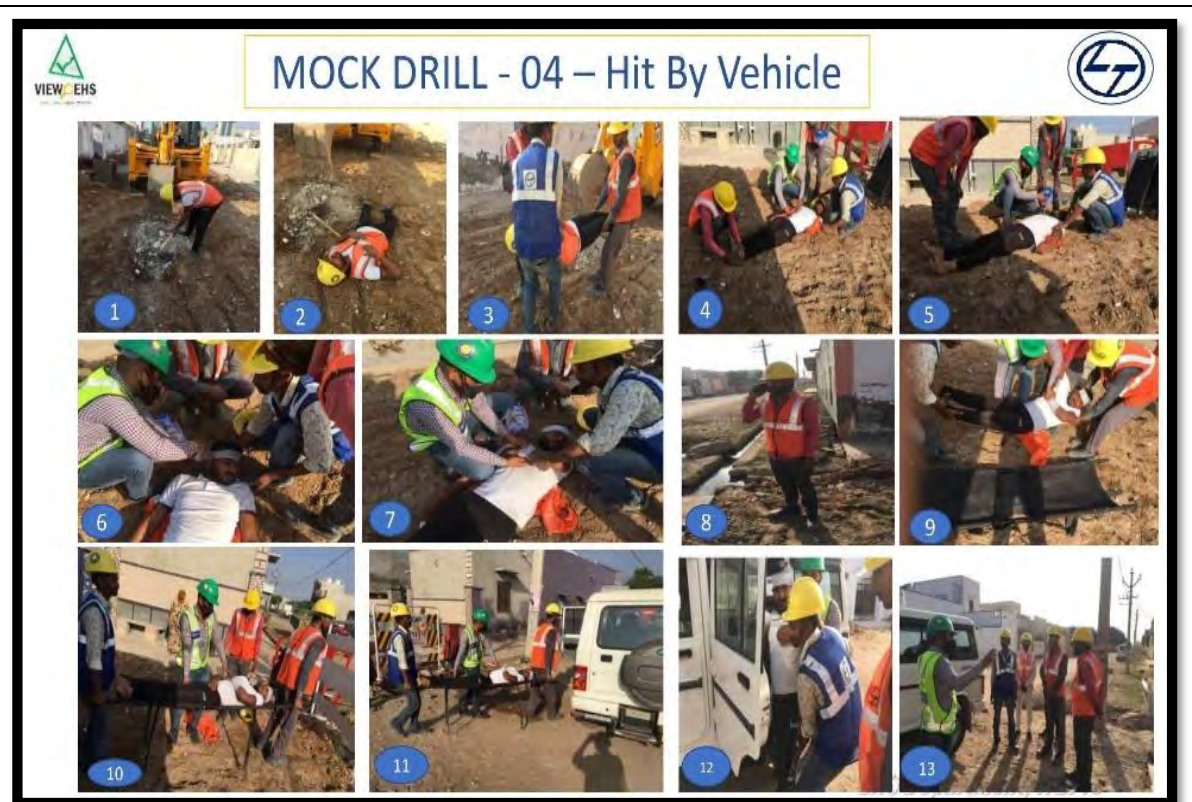


Medical Health Check -Up Camp for workers**Medical Health Check -Up Camp for Staff****Mask Distribution**



**Tree plantation campaign
Slip, Trip & Fall Mock Drill**





Hit by Vehicle Mock drill

TRAININGS



EHS DEPARTMENT – WET IC

Induction trainings



EHS Campaign: Electrical Safety (Dec 2021)



Electrical PEP Talk Trainings



Sensitivity: LNT Construction Internal Use

EHS DEPARTMENT - WET IC

Electrical safety campaign Mandawa Town



Excavation Safety Training



Electrical Safety Training



HIV/ AIDS Awareness Campaign



COVID-19 Vaccination Camp

Abu Road Town	
	
Training on Electrical safety	Loading unloading safety
	
Training on House keeping	Training on Road safety
	
Excavation Safety	Material handling safety
	
Fire-fighting training	Training on Importance of PPE



Environmental Monitoring Report

Project Number: 42267-031
Semestral Report: October 2021 – March 2022
November 2022

India: Rajasthan Secondary Towns Development Sector Project

Part 3 of 3: Appendix 7 (continued) Appendices 8-12

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

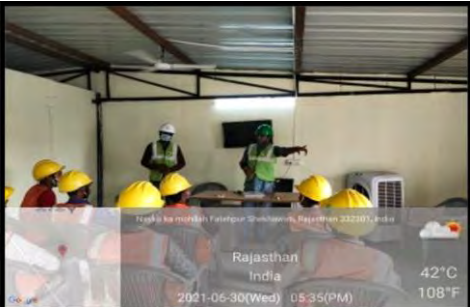
This environmental monitoring report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature.

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Asian Development Bank

Sirohi Town	
	
Contract Workmen Training	OJ Training- Electrical safety
	
LOCAL EXHAUST VENTILATION	SST-confined Space Safety
	
Health and hygiene Safety	First AID Training
	
Training on House keeping	Sardarshahar Town
	
EHS Induction & COVID Precaution during lockdown	EHS Induction & COVID Precaution
	

Site specific Training  Sandarshahr, Rajasthan, India Sandarshahr, Rajasthan, India Lat 26.450000 Long 74.450000	Scaffolding Safety  Sandarshahr Rajasthan India 37°C 99°F 2021-09-28 Sat 09:25am
Site Specific Training-Electrical Safety 	Fire Safety Training 
Site specific Training-COVID safety precaution	EHS Alert #41 & 01
 Sandarshahr, Rajasthan, India Jyoti Nagar, Sandarshahr, Rajasthan 314503, India Lat N 26° 20' 6.5150" Long E 74° 20' 22.6532" 13/04/21 10:17 AM	 Work at Height Safety Risk Based Thinking
EHS Alert #01	Site Specific Training- Work at Height
 Sandarshahr Rajasthan India 32°C 90°F 2021-05-10(Tue) 06:19am	 Sandarshahr Rajasthan India 34°C 93°F 2021-05-07(Fri) 06:58AM
Contractor workmen Training	Materials handling Training
 Sandarshahr Rajasthan India 43°C 109°F 2021-06-24(Fri) 06:10am	
Mock Drill on Electrocution	Mock Drill On Heat Stroke

Fatehpur Town	
	
Contractor Worker Training (CWT)	Traffic Management
	
Confined space work safety	EHS Alert no. 2 & 3
	
P & M Work Safety	Electrical Work Safety
	
Excavation work Safety	Mock drill
	
Traffic Management Training	Height Work safety

Ratangarh Town	
	
Excavation Safety Training	Material Handling Training, Excavation Safety, COVID-19 precautions
	
Work at Height Training	EHS Alert Training
	
TPI	Tree Plantation
Laxmangarh Town	
	
Others Training (OT)	Site Specific Training (SST)

	
Contractor Worker Training (CWT)	Induction
	
EHS Alert Training	Training on COVID-19 awareness
	
Ladder safety Training	Use of Mobile Toilet at the site
Pratapgarh Town	
	
Tree Plantation	
Banswara Town	
	
Training on Excavation safety	Material handling safety

 Baranware, Rajasthan, India 30°C 86°F 2021-10-04 (Mon) 10:17 (a.m.)	 Baranware, Rajasthan, India 30°C 86°F 2021-10-04 (Mon) 10:17 (a.m.)		
Training on House keeping		Training on Road safety	
Kuchaman Town			
 POCO 2021/04/30 09	 Aug 4, 2021, 8:02 PM Rajp Rajp		
Training on Material Handling Safety at office		Training on Working on Road Safety at office	
			
Excavation & Electrical Safety Training at site		Training on Importance of Barricade & PPES at site	
 Ladnun, Rajasthan, India Gali number 17, Ladnun, Rajasthan 341306, India Lat 27.641962° Long 74.402438°	 Ladnun, Rajasthan, India Didwana-Ladnun Rd, Ladnun, Rajasthan 341306, India Lat 27.629423° Long 74.395523°		
Induction Training			

	
Alert Training	Confined space entry training
Mandawa Town	
	
Excavation Safety Training	
	
Electrical Safety Training	Manual material handling Training
Khetri Town	
	
Training on House keeping	Training on Road safety

**Appendix 8: SAFEGUARD TRAININGS CONDUCTED BY CONTRACTORS
(October 2021 to March 2022)**

S. No	Activities done	Date	Location	Trainer	No. of participants
Kuchaman Town					
1	CWT (Excavation & Electrical Safety,)	05.10.2021	Kuchaman	Anurag Bagherwal	34 (Workmen)
2	CWT(Excavation & Electrical Safety,)	7.10.2021	Kuchaman	Anurag Bagherwal	7(Workmen)
3	CWT(Excavation & Electrical Safety,)	10.10.2021	Kuchaman	Anurag Bagherwal	4(Workmen)
4	SST (Working on road & Material Handling Safety)	12.10.2021	Kuchaman	Anurag Bagherwal	5(Workmen)
5	CWT(Excavation & Electrical Safety,)	16.10.2021	Kuchaman	Anurag Bagherwal	28(Workmen)
6	CWT(Excavation & Electrical Safety,)	20.10.2021	Kuchaman	Anurag Bagherwal	9(Workmen)
7	SST (Working on road & Material Handling Safety)	26.10-2021	Kuchaman	Anurag Bagherwal	8(Workmen)
8	CWT(Excavation & Electrical Safety,)	27.10.2021	Kuchaman	Anurag Bagherwal	7(Workmen)
9	Mock Drill (Heat Stoke Stress)	12.10.2021	Kuchaman	Anurag Bagherwal	5(Workmen)
10	Mock Drill (Hit by Vehicle)	26.10.2021	Kuchaman	Anurag Bagherwal	8 (Workmen)
11	SST (Working on road & Material Handling Safety)	11-11-2021	Kuchaman	Anurag Bagherwal	22 (Workmen)
12	SST (Working on road & Material Handling Safety)	13-11-2021	Kuchaman	Anurag Bagherwal	8 (Workmen)
13	CWT(Excavation & Electrical Safety,)	13-11-2021	Kuchaman	Anurag Bagherwal	24 (Workmen)
14	CWT(Excavation & Electrical Safety,)	17-11-2021	Kuchaman	Anurag Bagherwal	44 (Workmen)
15	CWT(Excavation & Electrical Safety,)	17-11-2021	Kuchaman	Anurag Bagherwal	44 (Workmen)
16	CWT(Excavation & Electrical Safety,) (Excavation & Electrical Safety,)	20-11-2021	Kuchaman	Anurag Bagherwal	52 (Workmen)
17	CWT(Excavation & Electrical Safety,)	20-11-2021	Kuchaman	Anurag Bagherwal	68 (Workmen)
18	CWT(Excavation & Electrical Safety,)	22-11-2021	Kuchaman	Anurag Bagherwal	28 (Workmen)
19	CWT(Excavation & Electrical Safety,)	24-11-2021	Kuchaman	Anurag Bagherwal	32 (Workmen)
20	CWT(Excavation & Electrical Safety,)	26-11-2021	Kuchaman	Anurag Bagherwal	24 (Workmen)
21	SST (Working on road & Material Handling Safety)	26-11-2021	Kuchaman	Anurag Bagherwal	22 (Workmen)
22	CWT(Excavation & Electrical Safety,)	29-11-2021	Kuchaman	Anurag Bagherwal	64 (Workmen)
22	CWT(Excavation & Electrical Safety,)	30-11-2021	Kuchaman	Anurag Bagherwal	32 (Workmen)
23	MOCK DRILL (ELECTROUTION)	11-11-2021	Kuchaman	Anurag Bagherwal	8 (Workmen)
24	MOCK DRILL (HIT BY VEHICLE)	24-11-2021	Kuchaman	Anurag Bagherwal	6 (Workmen)
25	CWT(Excavation & Electrical Safety,)	01-12-2021	Kuchaman	Anurag Bagherwal	11 (Workmen)
26	CWT(Excavation & Electrical Safety,)	03-12-2021	Kuchaman	Anurag Bagherwal	6 (Workmen)
27	CWT(Excavation & Electrical Safety,)	04-12-2021	Kuchaman	Anurag Bagherwal	5 (Workmen)
28	CWT(Excavation & Electrical Safety,)	10-12-2021	Kuchaman	Anurag Bagherwal	6 (Workmen)
29	CWT(Excavation & Electrical Safety,)	10-12-2021	Kuchaman	Anurag Bagherwal	8 (Workmen)
30	CWR(Excavation & Electrical Safety,)	13-12-2021	Kuchaman	Anurag Bagherwal	9 (Workmen)
31	SST (Working on road & Material Handling Safety)	13-12-2021	Kuchaman	Anurag Bagherwal	5 (Workmen)
32	SST (Working on road & Material Handling Safety)	14-12-2021	Kuchaman	Anurag Bagherwal	5 (Workmen)
33	CWR(Excavation & Electrical Safety,)	16-12-2021	Kuchaman	Anurag Bagherwal	5 (Workmen)
34	OT (Excavation & Electrical Safety,)	17-12-2021	Kuchaman	Anurag Bagherwal	29 (Staff)
35	CWT (Excavation & Electrical Safety,)	18-12-2021	Kuchaman	Anurag Bagherwal	5 (Workmen)
36	SST (Working on road & Material Handling Safety)	28-12-2021	Kuchaman	Anurag Bagherwal	8 (Workmen)
37	Mock Drill (Electrocution)	07-12-2021	Kuchaman	Anurag Bagherwal	7 (Workmen/

					Staff)
38	EHS Alert	08-01-2022	Kuchaman	Anurag Bagherwal	21 (Staff)
39	CWT(Excavation & Electrical Safety,)	12-01-2022	Kuchaman	Anurag Bagherwal	3 (Workmen)
40	SST (Working on road & Material Handling Safety)	19-01-2022	Kuchaman	Anurag Bagherwal	6 (Workmen)
41	SST (Working on road & Material Handling Safety)	19-01-2022	Kuchaman	Anurag Bagherwal	8 (Workmen)
42	SST (Working on road & Material Handling Safety)	19-01-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)
43	CWT(Excavation & Electrical Safety,)	20-01-2022	Kuchaman	Anurag Bagherwal	4 (Workmen)
44	OT	22-01-2022	Kuchaman	Anurag Bagherwal	18 (Staff)
45	CWT(Excavation & Electrical Safety,)	25-01-2022	Kuchaman	Anurag Bagherwal	7 (Workmen)
46	SST (Working on road & Material Handling Safety)	27-01-2022	Kuchaman	Anurag Bagherwal	4 (Workmen)
47	SST (First Aid Training)	27-01-2022	Kuchaman	Anurag Bagherwal	3 (Workmen)
48	SST (Working on road & Material Handling Safety)	28-01-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)
49	SST (First Aid Training)	28-01-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)
50	SST (First Aid Training)	29-01-2022	Kuchaman	Anurag Bagherwal	6 (Workmen)
51	SST (Working on road & Material Handling Safety)	29-01-2022	Kuchaman	Anurag Bagherwal	7 (Workmen)
52	SST First Aid Training)	29-01-2022	Kuchaman	Anurag Bagherwal	6 (Workmen)
53	SST First Aid Training)	31-01-2022	Kuchaman	Anurag Bagherwal	8 (Workmen/Staff)
54	MOCK DRILL (HIT BY VEHICLE)	10-01-2022	Kuchaman	Anurag Bagherwal	8 (Workmen/Staff)
55	MOCK DRILL (ELECTROUTION)	27-01-2022	Kuchaman	Anurag Bagherwal	5 (Workmen)
CWT: Contractor Workmen Training; SST: Site Specific Training					
Didwana Town					
1	EHS Alert 1	11/12/21	Zone 11	Robin Maprani	5
2	EHS Alert 2	25/12/21	Zone 05	Mehrudeen	7
3	EHS Alert 3	02/12/21	Zone 06	Robin Maprani	6
4	EHS Alert 4	09/12/21	Zone 05	Robin Maprani	8
5	Site Specific training 1	16/12/21	Zone 11	Mehrudeen	5
6	Site Specific training 2	23/12/21	Zone 06	Robin Maprani	8
7	Contractor Workmen Training 1	01/12/21	Zone 11	Mehrudeen	7
8	Contractor Workmen Training 2	21/12/21	Zone 05	Mehrudeen	6
9	Induction Training 1	03/12/21	Zone 06	Robin Maprani	5
10	Induction Training 2	30/12/21	Zone 05	Robin Maprani	8
11	Induction Training 3	02/12/21	Zone 11	Mehrudeen	7
12	Induction Training 4	30/12/21	Zone 06	Mehrudeen	6
13	Mock drill 1	11/01/22	Zone 11	Robin Maprani	1
14	Mock Drill 2	25/01/22	Zone 05	Mehrudeen	2
15	Housekeeping Campaign 1	02/01/22	Zone 06	Robin Maprani	3

16	Housekeeping Campaign 2	09/01/22	Zone 05	Robin Maprani	4
17	Housekeeping Campaign 3	16/01/22	Zone 11	Mehrudeen	5
18	Housekeeping Campaign 4	23/01/22	Zone 06	Robin Maprani	6
19	Reward Distribution	30/01/22	Office and Site	Robin Maprani	7
20	Monthly safety committee meeting	11/01/22	Office	Mehrudeen	8
21	EHS related policy display	25/01/22	Store and workmen camp	Robin Maprani	9
22	Fire extinguisher installation	02/01/22	All permanent locations	Mehrudeen	10
23	Air, water, sound and soil testing	11/01/22	All zones	Robin Maprani	11
24	Republic day celebration	25/01/22	Store	Robin Maprani	12
25	Quiz competition	02/01/22	Office	Mehrudeen	13
26	Badminton competition	09/01/22	Guest house	Robin Maprani	14
27	Drawing competition	16/01/22	All zones	Robin Maprani	15
28	Appreciation certificate from SE and EE	23/01/22	Office	Mehrudeen	16
29	Go green campaign	30/01/22	Store	Robin Maprani	17
30	EHS Alert 1	01/03/22	Zone 06	Robin Maprani	5
31	EHS Alert 2	20/03/22	Zone 05	Mehrudeen	8
32	EHS Alert 3	02/03/22	Zone 11	Robin Maprani	9
33	EHS Alert 4	09/03/22	Zone 05	Robin Maprani	7
34	Site Specific training 1	15/03/22	Zone 11	Mehrudeen	6
35	Site Specific training 2	23/03/22	Zone 06	Robin Maprani	5
36	Site Specific training 3	21/03/22	Zone 05	Robin Maprani	9
37	Contractor Workmen Training 1	05/03/22	Zone 11	Mehrudeen	7
38	Contractor Workmen Training 2	22/03/22	Zone 05	Mehrudeen	6
39	Induction Training 1	03/03/22	Zone 06	Robin Maprani	5
40	Induction Training 2	08/03/22	Zone 05	Robin Maprani	8
41	Induction Training 3	12/03/22	Zone 11	Mehrudeen	7
42	Induction Training 4	20/03/22	Zone 06	Mehrudeen	6
Makrana Town					
1	EHS Alert 1	11/12/21	Zone 05	Robin Maprani	8
2	EHS Alert 2	25/12/21	Zone 06	Zakir Khan	7
3	EHS Alert 3	02/12/21	Zone 07	Robin Maprani	6
4	EHS Alert 4	09/12/21	Zone 04	Robin Maprani	5

5	Site Specific training 1	16/12/21	Zone 06	Zakir Khan	5
6	Site Specific training 2	23/12/21	Zone 05	Robin Maprani	8
7	Contractor Workmen Training 1	01/12/21	Zone 06	Zakir Khan	7
8	Contractor Workmen Training 2	21/12/21	Zone 05	Zakir Khan	6
9	Induction Training 1	03/12/21	Zone 04	Robin Maprani	5
10	Induction Training 2	30/12/21	Zone 06	Robin Maprani	8
11	Induction Training 3	02/12/21	Zone 04	Zakir Khan	7
12	Induction Training 4	30/12/21	Zone 06	Zakir Khan	6
13	EHS Alert 1	11/01/22	Zone 05	Robin Maprani	8
14	EHS Alert 2	25/01/22	Zone 06	Zakir Khan	7
15	EHS Alert 3	02/01/22	Zone 07	Robin Maprani	6
16	EHS Alert 4	09/01/22	Zone 04	Robin Maprani	5
17	Site Specific training 1	16/01/22	Zone 06	Zakir Khan	5
18	Site Specific training 2	23/01/22	Zone 05	Robin Maprani	8
19	Site Specific training 3	20/01/22	Zone 05	Robin Maprani	9
20	Contractor Workmen Training 1	01/01/22	Zone 06	Zakir Khan	7
21	Contractor Workmen Training 2	21/01/22	Zone 05	Zakir Khan	6
22	Induction Training 1	03/01/22	Zone 04	Robin Maprani	5
23	Induction Training 2	30/01/22	Zone 06	Robin Maprani	8
24	Induction Training 3	02/01/22	Zone 04	Zakir Khan	7
25	Induction Training 4	30/01/22	Zone 06	Zakir Khan	6
26	EHS Alert 1	01/03/22	Zone 04	Shyam Pal	7
27	EHS Alert 2	21/03/22	Zone 06	Zakir Khan	6
28	EHS Alert 3	03/03/22	Zone 04	Robin Maprani	5
29	EHS Alert 4	30/03/22	Zone 06	Shyam Pal	8
30	Site Specific training 1	02/03/22	Zone 06	Zakir Khan	7
31	Site Specific training 2	20/03/22	Zone 05	Robin Maprani	6
32	Site Specific training 3	20/03/22	Zone 05	Shyam Pal	9
33	Contractor Workmen Training 1	08/03/22	Zone 06	Zakir Khan	8
34	Contractor Workmen Training 2	20/03/22	Zone 05	Zakir Khan	9
35	Induction Training 1	13/03/22	Zone 04	Shyam Pal	5
36	Induction Training 2	17/03/22	Zone 06	Robin Maprani	4
37	Induction Training 3	22/03/22	Zone 04	Zakir Khan	2
38	Induction Training 4	20/03/22	Zone 06	Zakir Khan	6

Khetri Town					
1	Excavation Safety Training	07-10-2021	ZONE-03	Raj Kapoor	7
2	Excavation Safety Training	15-10-2021	ZONE-01	Raj Kapoor	5
3	Excavation Safety Training	26-10-2021	ZONE-05	Raj Kapoor	11
4	Excavation Safety Training	11-11-2021	ZONE-01	Raj Kapoor	9
5	Manual material handling Training	18-11-2021	ZONE-03	Raj Kapoor	6
6	Excavation Safety Training	07-12-2021	ZONE-04	Raj Kapoor	4
7	Excavation Safety Training	15-12-2021	ZONE-02	Raj Kapoor	8
8	Excavation Safety Training	23-12-2021	ZONE-03	Raj Kapoor	5
9	Excavation Safety Training	05-01-2022	ZONE-02	Raj Kapoor	6
10	Excavation Safety Training	18-01-2022	ZONE-04	Raj Kapoor	3
11	Excavation Safety Training	28-01-2022	ZONE-02	Raj Kapoor	3
12	Excavation Safety Training	07-02-2022	ZONE-01	Raj Kapoor	5
13	Excavation Safety Training	17-02-2022	ZONE-02	Raj Kapoor	3
14	Excavation Safety Training	25-02-2022	ZONE-02	Raj Kapoor	3
15	Excavation Safety Training	05-01-2022	ZONE-02	Raj Kapoor	6
16	Excavation Safety Training	18-01-2022	ZONE-04	Raj Kapoor	3
17	Excavation Safety Training	28-01-2022	ZONE-02	Raj Kapoor	3
18	Excavation Safety Training	07-02-2022	Zone-1	Raj Kapoor	5
19	Excavation Safety Training	17-02-2022	Zone-2	Raj Kapoor	3
20	Excavation Safety Training	25-02-2022	Zone-2	Raj Kapoor	3
21	Excavation Safety Training	04-03-2022	ZONE-04	Raj Kapoor	10
22	Excavation Safety Training	14-03-2022	ZONE-02	Raj Kapoor	4
23	Excavation Safety Training	26-03-2022	ZONE-03	Raj Kapoor	3
Ladnu Town					
1	Health Check-up for staff	28-10-2021	Ladnun L&T office	Jeevan Kumar & Anil Kumar	13
2	Health Check-up for workmen	01-10-2021	Store yard	Jeevan Kumar & Anil Kumar	12
3	Health Check-up for workmen	27-11-2021	On site	Jeevan Kumar & Anil Kumar	10
4	Aids Awareness camp	02-12-2021	Store yard	Jeevan Kumar & Anil Kumar	13
5	Health Check-up for workmen	02-12-2021	Store yard	Jeevan Kumar & Anil Kumar	13
6	Fogging & Disinfection	28-10-2021	Storeyard, Guest house	Jeevan Kumar & Anil Kumar	6
7	Tree plantation campaign	29-10-2021	Suraj mal Govt School	Jeevan Kumar & Anil Kumar	120 saplings

8	Struck By Vehicle	22-01-2022	Ladnun L&T office	Jeevan Kumar p k&Anik	6
9	Snake Bite	25-01-2022	Store yard	Jeevan Kumar p k & Anil	4
10	Induction Training	03-02-2022	On site	Jeevan Kumar p k & Anil	8
11	Contractors work men training	07-02-2022	Store yard	Jeevan Kumar p k & Anil	10
12	Site specific training	15-02-2022	Store yard	Jeevan Kumar p k & Anil	05
13	Electrocution	23-02-2022	Storeyard, Guest house	Jeevan Kumar p k & Anil Choudhary	6
14	Hit By Vehicle	25-02-2022	Ladnun L&T office	Jeevan Kumar p k & Abhishek Mishra	8
15	Induction Training	28-02-2022	Store yard	Jeevan Kumar p k , Anil & Abhishek	144
16	Contractors work men training	23-03-2022	Ladnun L&T office	Jeevan Kumar p k, Anil & Abhishek	20
17	Site specific training	02-03-2022	Store yard	Jeevan Kumar p k , Anil & Abhishek	36
18	OJT	05-03-2022	On site	Jeevan Kumar p k , Anil & Abhishek	5
19	Alert Training	08-03-2022	Store yard	Jeevan Kumar p k , Anil & Abhishek	22
20	Electrocution	12-03-2022	On site	Jeevan Kumar p k & Anil Choudhary	6
21	Hit By Vehicle	15-03-2022	Store yard	Jeevan Kumar p k & Abhishek Mishra	8
22	Induction Training	17-03-2022	Store yard	Jeevan Kumar p k , Anil & Abhishek	144
23	Contractors work men training	21-03-2022	Storeyard, Guest house	Jeevan Kumar p k, Anil & Abhishek	20
24	Site specific training	23-03-2022	Ladnun L&T office	Jeevan Kumar p k , Anil & Abhishek	36
25	OJT	26-03-2022	Store yard	Jeevan Kumar p k , Anil & Abhishek	5
26	Alert Training	27-03-2022	On site	Jeevan Kumar p k , Anil & Abhishek	22
27	Electrocution	30-03-2022	Store yard	Jeevan Kumar p k & Anil Choudhary	6

Mandawa Town

1	Electrical Safety Training	05-10-2021	ZONE-01	Manoj	08
2	Excavation Safety Training	12-10-2021	ZONE-03	Manoj	11
3	Excavation Safety Training	12-11-2021	ZONE-02	Manoj	11
4	Excavation Safety Training	21-11-2021	ZONE-02	Manoj	09
5	Excavation Safety Training	06-12-2021	ZONE-01	Manoj	09
6	Electrical Safety Training	11-12-2021	ZONE-03	Manoj	07
7	Manual material handling Training	15-12-2021	ZONE-02	Manoj	11
8	Excavation Safety Training	25-12-2021	ZONE-02	Manoj	09
9	Height Work Safety Training	18-01-2022	STP	Manoj	14

10	Electrical Safety Training	25-01-2022	CWR	Manoj	09
11	Height Work Safety Training	20-02-2022	STP	Manoj	04
12	Electrical Safety Training	28-02-2022	SPS	Manoj	06
13	Height Work Safety Training	10.03.2022	CRMC Building Site	Manoj	09
14	Excavation Safety Training	25.03.2022	Trenchless Site	Manoj	05

Abu Road Town					
1	Fire-fighting training	Oct'21	Workmen Camp	Mr. Sachin	2
2	EHS Alert #15	Oct'21	Manpur	Mr. Sachin	5
3	Electrical safety AND Excavation safety	Oct'21	Workmen Camp	Mr. Sachin	7
4	CWT	Oct'21	Workmen Camp	Mr. Sachin	16
5	Material handling safety	Oct'21	Manpur	Mr. Sachin	7
6	EHS Alert #19	Oct'21	New manpur	Mr. Sachin	5
7	EHS Alert #16	Oct'21	Ganesh Colony	Mr. Sachin	5
8	EHS Alert #20	Oct'21	Santpur	Mr. Sachin	7
9	EHS Alert #18	Oct'21	Office	Mr. Sachin	16
10	EHS Alert #20	Oct'21	Office	Mr. Sachin	16
11	CWT	Oct'21	Workmen Camp	Mr. Sachin	11
12.	Excavation safety and road safety	Oct'21	Manpur	Mr. Sachin	12
13	scaffolding training	Oct'21	Santpur STP	Mr. Sachin	9
14	Work at height and housekeeping	Oct'21	Workmen Camp	Mr. Sachin	7
15.	Excavation safety and barricading	Oct'21	Aabkari aburoad	Mr. Sachin	13
16	Importance of PPE and work at height	Oct'21	Workmen Camp	Mr. Sachin	5
17	EHS Alert #20	Nov'21	Workmen Camp	Mr. Sachin	5
18	Material Handling	Nov'21	New Maanpur	Mr. Sachin	10
19	Electrical safety	Nov'21	Workmen Camp	Mr. Sachin	10
20	EHS Alert #20	Nov'21	STP Santpur	Mr. Sachin	4
21	EHS Alert #19	Nov'21	Gandhinagar	Mr. Sachin	5
22	Road safety and housekeeping	Nov'21	STP Santpur	Mr. Sachin	5
23	Electrical safety and housekeeping	Nov'21	Maanpur	Mr. Sachin	8
24	Excavation safety and Housekeeping	Nov'21	Workmen Camp	Mr. Sachin	9
25	EHS Alert #19	Nov'21	Workmen Camp	Mr. Sachin	7
26	Tool box training	Nov'21	Office	Mr. Sachin	11

27	EHS Alert #19	Nov'21	Workmen Camp	Mr. Sachin	8
28	Importance of PPE	Nov'21	Maanpur	Mr. Sachin	9
29	Electrical safety and housekeeping	Nov'21	Maanpur	Mr. Sachin	10
30	EHS Alert #20	Nov'21	Maanpur	Mr. Sachin	8
31	Importance of PPE and material handling	Nov'21	Office	Mr. Sachin	13
32	Material Handling and housekeeping	Nov'21	Workmen Camp	Mr. Sachin	15
33	EHS Alert #21	Nov'21	Santpur STP	Mr. Sachin	13
34	Material Handling and housekeeping	Dec'21	Workmen Camp	Mr. Sachin	7
35	EHS Alert #20	Dec'21	Manpur STP	Mr. Sachin	7
36	EHS Alert #21	Dec'21	Akrabhatta	Mr. Sachin	7
37	CWT	Dec'21	Workmen Camp	Mr. Sachin	15
38	EHS Alert #19	Dec'21	Santpur stp	Mr. Sachin	9
39	Excavation safety & Soil collapse	Dec'21	Workmen Camp	Mr. Sachin	10
40	EHS Alert #20	Dec'21	Gandhinagar	Mr. Sachin	5
41	Material Handling and housekeeping	Dec'21	Workmen Camp	Mr. Sachin	5
42	Importance of PPE and excavation safety	Dec'21	Workmen Camp	Mr. Sachin	8
43	Road safety & Housekeeping	Dec'21	Workmen Camp	Mr. Sachin	11
44	CWT	Dec'21	Workmen Camp	Mr. Sachin	14
45	Scaffolding Training	Dec'21	Santpur stp	Mr. Sachin	8
46	EHS Alert #21	Dec'21	Santpur stp	Mr. Sachin	5
47	EHS Alert #20	Dec'21	Manpur STP	Mr. Sachin	6
48	Importance of PPE and Road safety	Dec'21	Workmen Camp	Mr. Sachin	5
49	Electrical Safety & Excavation Safety	Dec'21	Workmen Camp	Mr. Sachin	5
50	Excavation safety & Road Safety	Dec'21	Workmen Camp	Mr. Sachin	12
51	EHS Alert #21	Dec'21	Santpur stp	Mr. Sachin	8
52	EHS Alert #21	Dec'21	Gandhinagar	Mr. Sachin	7
53	EHS Alert #26	Dec'21	Gandhinagar	Mr. Sachin	6
54	EHS Alert #26	Dec'21	CRMC building	Mr. Sachin	5
55	Machine Inspection & Safety Precautions	Dec'21	Gandhinagar	Mr. Sachin	9
56	Importance of PPE & Electrical Safety	Dec'21	Workmen Camp	Mr. Sachin	6
57	Importance of PPE & Electrical Safety	Dec'21	Workmen Camp	Mr. Sachin	7
58	P&M AND SAFETY TRAINING	Dec'21	Store	Mr. Sachin	7
59	Celebration of L&T Safety Month	01.02.2022	Main office & Store Yard	Monuj Saikia	50
60	Celebration of National Safety Day	04.03.2022	STP & Santpur Gov School	Monuj Saikia	60
61	Tree Plantation Drive	01.02.2022 to 31.03.2022	Santpur, Manpur,	Monuj Saikia	40

			Shantikunj, store yard		
62	ESG requirements	31/03/2022	Workmen Camp Training Hall	Monuj Saikia	SST
63	ESG PARAMETERS & REQUIREMENTS	30/03/2022	STP	Monuj Saikia	SST
64	Excavation Safety	25/03/2022	Workmen Camp Training Hall	Monuj Saikia	SST
65	Electrical Safety.	17/03/2022	Workmen Camp Training Hall	Monuj Saikia	SST
66	EXCAVATION SAFETY & IMPORTANCE PPES	16/03/2022	Workmen Camp Training Hall	Monuj Saikia	SST
67	ELECTRICAL SAFETY	10/03/2022	Workmen Camp Training Hall	Monuj Saikia	SST
68	EHS ALERT 20	10/03/2022	STP	Monuj Saikia	EHS Alert
69	FIRST AID TRAINING	09/03/2022	Workmen Camp Training Hall	Monuj Saikia	Others
70	EXCAVATION SAFETY	08/03/2022	Office	Monuj Saikia	SST
71	EHS ALERT 20	07/03/2022	Tagore Nagar	Monuj Saikia	EHS Alert

Sirohi Town

1	Mock Drill	26-10-21	Sirohi	Mr. Satish Vaniya	12
2	Mock Drill	28.10.21	Sirohi	Mr. Satish Vaniya	11
3	Mock Drill	10.11.21	Sirohi	Mr. Satish Vaniya	08
4	Mock Drill	19.11.21	Sirohi	Mr. Satish Vaniya	19
5	Mock Drill	26.12.21	Sirohi	Mr. Satish Vaniya	08
6	Mock Drill	29.12.21	Sirohi	Mr. Satish Vaniya	14
7	HIV Awareness Camp	01-12-21	Sirohi	Mr. Satish Vaniya	25
8	World Water Day Celebration	21-03-2022	Sirohi	Mr. Satish Vaniya	150
9	Tree plantation Drive	10-03-2022	Government School	Mr. Satish Vaniya	70
10	Blood Donation Camp	28-03-2022	Blood Bank	Mr. Satish Vaniya	20
11	Water Awareness Campaign	22.03.2022	Government School	Mr. Satish Vaniya	200
12	Scaffolding Safety	03-01-2022	Sirohi	Satish /Rinku	8
13	Excavation Safety	04-01-2022	Sirohi	Satish /Rinku	10
14	Height Work Safety	05-01-2022	Sirohi	Satish /Rinku	20
15	Covid 19 –New variant omicron	06-01-2022	Sirohi	Satish /Rinku	15
16	Mock Drill	08-01-2022	Sirohi	Satish /Rinku	11
17	Manual Material Handling	11-01-2022	Sirohi	Satish /Rinku	6
18	CWT Training	13-01-2022	Sirohi	Satish /Rinku	17
19	CWT Training	24-01-2022	Sirohi	Satish /Rinku	12
20	Road Safety Awareness	27-01-2022	Sirohi	Satish /Rinku	12
21	Excavation Safety	28-01-2022	Sirohi	Satish /Rinku	8
22	Height Work Safety	28-01-2022	Sirohi	Satish /Rinku	12

Sardarshahar Town					
1	EHS Induction & COVID Precaution	01.10.21	Workmen Camp	Rakesh kumar Sahu	59
2	CONTRACTOR WORKMEN TRAINING	13/10/2021	Sardarshahar	Rakesh Kumar Sahu	17
3	CONTRACTOR WORKMEN TRAINING	18/10/2021	Sardarshahar	Rakesh Kumar Sahu	11
4	CONTRACTOR WORKMEN TRAINING	27/10/2021	Sardarshahar	Rakesh Kumar Sahu	10
5	OTHER TRAINING EHS Alert No. 20	05/10/2021	Sardarshahar	Rakesh Kumar Sahu	7
6	OTHER TRAINING EHS Alert No. 20	16/10/2021	Sardarshahar	Rakesh Kumar Sahu	31
7	OTHER TRAINING EHS Alert No. 20	18/10/2021	Sardarshahar	Rakesh Kumar Sahu	4
8	OTHER TRAINING EHS Alert No. 18	23/10/2021	Sardarshahar	Rakesh Kumar Sahu	5
9	OTHER TRAINING EHS Alert No. 19	25/10/2021	Sardarshahar	Rakesh Kumar Sahu	11
10	OTHER TRAINING Store safety precaution, MSDS, Risk & opportunity	27/10/2021	Sardarshahar	Rakesh Kumar Sahu	1
11	OTHER TRAINING Maintain hygiene at kitchen premises, Fire Safety Training, Health safety awareness, COVID19 precaution, Dengue precaution	27/10/2021	Sardarshahar	Rakesh Kumar Sahu	2
12	OTHER TRAINING Mock Drill on Hit by bike	06/10/2021	Sardarshahar	Rakesh Kumar Sahu	13
13	OTHER TRAINING Mock Drill on Hit by ajax fiory	29/10/2021	Sardarshahar	Rakesh Kumar Sahu	10
14	EHS Induction & COVID Precaution	01.11.2021	Sardarshahar	Rakesh Kumar Sahu	138
15	CONTRACTOR WORKMEN TRAINING	12.11.2021	Sardarshahar	Rakesh Kumar Sahu	8
16	CONTRACTOR WORKMEN TRAINING	19.11.2021	Sardarshahar	Rakesh Kumar Sahu	7
17	CONTRACTOR WORKMEN TRAINING	23.11.2021	Sardarshahar	Rakesh Kumar Sahu	8
18	CONTRACTOR WORKMEN TRAINING	26.11.2021	Sardarshahar	Rakesh Kumar Sahu	15
19	SITE SPECIFIC TRAINING Fire Safety Training Safe Material Handling Training,Precaution during House Service Connection,Use of COVID safety precaution,Machine guarding and electrical Safety	12.11.2021	Sardarshahar	Rakesh Kumar Sahu	8
20	OTHER TRAINING EHS Alert No. 21	15.11.2021	Sardarshahar	Rakesh Kumar Sahu	6
21	OTHER TRAINING EHS Alert No. 24	18.11.2021	Sardarshahar	Rakesh Kumar Sahu	9
22	OTHER TRAINING EHS Alert No. 22	16.11.2021	Sardarshahar	Rakesh Kumar Sahu	8

23	OTHER TRAINING EHS Alert No. 23	15.11.2021	Sardarshahar	Rakesh Kumar Sahu	14
24	OTHER TRAINING EHS Alert No. 24	16.11.2021	Sardarshahar	Rakesh Kumar Sahu	27
25	OTHER TRAINING EHS Alert No. 22	16.11.2021	Sardarshahar	Rakesh Kumar Sahu	8
26	OTHER TRAINING Mock Drill	23.11.2021	Sardarshahar	Rakesh Kumar Sahu	8
27	EHS Induction & COVID Precaution	01/12/2021	Sardarshahar	Rakesh Kumar Sahu	160
28	CONTRACTOR WORKMEN TRAINING	18/12/2021	Sardarshahar	Rakesh Kumar Sahu	9
29	CONTRACTOR WORKMEN TRAINING	18/12/2021	Sardarshahar	Rakesh Kumar Sahu	17
30	SITE SPECIFIC TRAINING National Pollution Control Day	02.12.2021	Sardarshahar	Rakesh Kumar Sahu	32
31	SITE SPECIFIC TRAINING Electrical Safety	17.12.2021	Sardarshahar	Rakesh Kumar Sahu	14
32	OTHER TRAINING HIV/AIDS Awareness Session	01.12.2021	Sardarshahar	Rakesh Kumar Sahu	13
33	OTHER TRAINING EHS Alert # 25	10.12.2021	Sardarshahar	Rakesh Kumar Sahu	17
34	OTHER TRAINING EHS Alert # 31	10.12.2021	Sardarshahar	Rakesh Kumar Sahu	27
35	OTHER TRAINING EHS Alert # 26	17.12.2021	Sardarshahar	Rakesh Kumar Sahu	23
36	OTHER TRAINING EHS Alert # 31	18.12.2021	Sardarshahar	Rakesh Kumar Sahu	17
37	OTHER TRAINING COOK-Fire Training	23.12.2021	Sardarshahar	Rakesh Kumar Sahu	1
38	OTHER TRAINING EHS Alert # 33	23.12.2021	Sardarshahar	Rakesh Kumar Sahu	14
39	OTHER TRAINING EHS Alert # 33	23.12.2021	Sardarshahar	Rakesh Kumar Sahu	7
40	OTHER TRAINING EHS Alert # 33	18.12.2021	Sardarshahar	Rakesh Kumar Sahu	17
41	OTHER TRAINING EHS Alert # 33	29.12.2021	Sardarshahar	Rakesh Kumar Sahu	8
42	OTHER TRAINING MOCK DRILL	06.12.2021	Sardarshahar	Rakesh Kumar Sahu	9
43	OTHER TRAINING Mock Drill On Electric shock	18.12.2021	Sardarshahar	Rakesh Kumar Sahu	20
44	OTHER TRAINING MOCK DRILL -HIT BY AXE	18.12.2021	Sardarshahar	Rakesh Kumar Sahu	11
45	OTHER TRAINING MOCK DRILL -SOIL COLLAPSE	29.12.2021	Sardarshahar	Rakesh Kumar Sahu	12
46	EHS Induction & COVID Precaution	01/01/2022	Sardarshahar	Rakesh Kumar Sahu	111
47	CONTRACTOR WORKMEN TRAINING	05.01.22	Sardarshahar	Rakesh Kumar Sahu	17
48	CONTRACTOR WORKMEN TRAINING	06.01.22	Sardarshahar	Rakesh Kumar Sahu	17
49	CONTRACTOR WORKMEN TRAINING	29.01.22	Sardarshahar	Rakesh Kumar Sahu	9
50	SITE SPECIFIC TRAINING WORK AT HEIGHT	17.01.22	Sardarshahar	Rakesh Kumar Sahu	13
51	SITE SPECIFIC TRAINING MATERIAL HANDLING	12.01.22	Sardarshahar	Rakesh Kumar Sahu	18

52	SITE SPECIFIC TRAINING WORK AT HEIGHT	31.01.22	Sardarshahar	Rakesh Kumar Sahu	10
53	SITE SPECIFIC TRAINING EXCAVATION SAFETY	27.01.22	Sardarshahar	Rakesh Kumar Sahu	20
54	SITE SPECIFIC TRAINING EXCAVATION SAFETY	22.01.22	Sardarshahar	Rakesh Kumar Sahu	7
55	SITE SPECIFIC TRAINING BASIC SAFETY AWARENESS, COVID	10.01.22	Sardarshahar	Rakesh Kumar Sahu	12
56	SITE SPECIFIC TRAINING BASIC SAFETY AWARENESS, COVID	10.01.22	Sardarshahar	Rakesh Kumar Sahu	12
57	SITE SPECIFIC TRAINING Defensive Driving Safety Training	18.01.22	Sardarshahar	Rakesh Kumar Sahu	17
58	SITE SPECIFIC TRAINING COVID AWARENESS	13.01.22	Sardarshahar	Rakesh Kumar Sahu	30
59	OTHER TRAINING EHS Alert # 30 & 31	28.01.22	Sardarshahar	Rakesh Kumar Sahu	15
60	OTHER TRAINING EHS Alert # 32 & 33	28.01.22	Sardarshahar	Rakesh Kumar Sahu	15
61	OTHER TRAINING EHS Alert # 34 & 35	29.01.22	Sardarshahar	Rakesh Kumar Sahu	15
62	OTHER TRAINING EHS Alert # 35	19.01.22	Sardarshahar	Rakesh Kumar Sahu	13
63	OTHER TRAINING EHS Alert # 36 & 37	26.01.22	Sardarshahar	Rakesh Kumar Sahu	14
64	OTHER TRAINING EHS Alert # 36	15.01.22	Sardarshahar	Rakesh Kumar Sahu	23
65	OTHER TRAINING EHS Alert # 36	20.01.22	Sardarshahar	Rakesh Kumar Sahu	29
66	EHS Induction & COVID Precaution	01/02/2022	Sardarshahar	Rakesh Kumar Sahu	55
67	CONTRACTOR WORKMEN TRAINING	24.02.2022	Sardarshahar	Rakesh Kumar Sahu	21
68	CONTRACTOR WORKMEN TRAINING	26.02.2022	Sardarshahar	Rakesh Kumar Sahu	19
69	SITE SPECIFIC TRAINING WORK AT HEIGHT Fire Safety Training, Use of fire Extinguisher & Cleaningness, Housekeeping	18.02.2022	Sardarshahar	Rakesh Kumar Sahu	2
70	SITE SPECIFIC TRAINING EXCAVATION SAFETY	07.02.2022	Sardarshahar	Rakesh Kumar Sahu	7
71	OTHER TRAINING EHS Alert # 40	25.02.2022	Sardarshahar	Rakesh Kumar Sahu	9
72	OTHER TRAINING EHS Alert # 40	28.02.2022	Sardarshahar	Rakesh Kumar Sahu	13
73	OTHER TRAINING EHS Alert # 41	19.02.2022	Sardarshahar	Rakesh Kumar Sahu	25
74	OTHER TRAINING EHS Alert # 41	22.02.2022	Sardarshahar	Rakesh Kumar Sahu	16
75	OTHER TRAINING Mock Drill on Soil Collapse	10.02.2022	Sardarshahar	Rakesh Kumar Sahu	11
76	OTHER TRAINING Mock Drill on Soil Collapse	21.02.2022	Sardarshahar	Rakesh Kumar Sahu	12
77	OTHER TRAINING Mock Drill on Soil Collapse	22.02.2022	Sardarshahar	Rakesh Kumar Sahu	11

78	OTHER TRAINING Mock Drill on Fall from height	24.02.2022	Sardarshahar	Rakesh Kumar Sahu	21
79	OTHER TRAINING Mock Drill on Fall from height	26.02.2022	Sardarshahar	Rakesh Kumar Sahu	16
80	EHS Induction & COVID Precaution	01/03/2022	Sardarshahar	Rakesh Kumar Sahu	61
81	CONTRACTOR WORKMEN TRAINING	30.03.2022	Sardarshahar	Rakesh Kumar Sahu	11
82	SITE SPECIFIC TRAINING WORK AT HEIGHT	03.03.2022	Sardarshahar	Rakesh Kumar Sahu	7
83	SITE SPECIFIC TRAINING	07.03.2022	Sardarshahar	Rakesh Kumar Sahu	19
84	SITE SPECIFIC TRAINING	23.03.2022	Sardarshahar	Rakesh Kumar Sahu	16
85	SITE SPECIFIC TRAINING	03.03.2022	Sardarshahar	Rakesh Kumar Sahu	3
86	SITE SPECIFIC TRAINING	11.03.2022	Sardarshahar	Rakesh Kumar Sahu	15
87	OTHER TRAINING EHS Alert # 43	12.03.2022	Sardarshahar	Rakesh Kumar Sahu	26
88	OTHER TRAINING EHS Alert # 44	28.03.2022	Sardarshahar	Rakesh Kumar Sahu	12
89	OTHER TRAINING EHS Alert # 45	28.03.2022	Sardarshahar	Rakesh Kumar Sahu	14
90	OTHER TRAINING EHS Alert # 43	23.03.2022	Sardarshahar	Rakesh Kumar Sahu	8
91	OTHER TRAINING Mock Drill on Snake bite	30.03.2022	Sardarshahar	Rakesh Kumar Sahu	13
92	OTHER TRAINING Mock Drill on Electrocution	23.03.2022	Sardarshahar	Rakesh Kumar Sahu	10

Fatehpur Town

1	EHS Alert 19,20	04.10.2021	Site	Mandeep Walia	8
2	Confined Space Entry ot	06.10.2021	Site	Mandeep Walia	20
3	EHS Alert No - 19 ,20	06.10.2021	Site	Mandeep Walia	10
4	Excavation Work Safety SST	07.10.2021	Site	Mandeep Walia	5
5	Electrical Work Safety SST	08.10.2021	Site	Mandeep Walia	7
6	EHS Alert 19,20	09.10.2021	Site	Mandeep Walia	8
7	Traffic Management SST	11.10.2021	Site	Mandeep Walia	6
8	Mock Drill	13.10.2021	Site	Mandeep Walia	17
9	CWT	18.10.2021	WMC	Mandeep Walia	6
10	CWT	18.10.2021	WMC	Mandeep Walia	11
11	EHS Alert 19,20	22.10.2021	Site	Mandeep Walia	8
12	EHS Alert 19,20	23.10.2021	Site	Mandeep Walia	7
13	EHS Alert 19,20	25.10.202	Site	Mandeep Walia	7
14	CWT	26.10.2021	WMC	Mandeep Walia	13
15	Mock Drill	27.10.2021	Site	Mandeep Walia	7
16	CWT	27.10.2021	WMC	Mandeep Walia	13
17	CWT	28.10.2021	WMC	Mandeep Walia	10
18	CWT	28.10.2021	WMC	Mandeep Walia	8
19	EHS Alert No 24	29.10.2021	Site	Mandeep Walia	18
20	Fire Drill ot	30.10.2021	Site	Mandeep Walia	5
21	Induction Training	06.10.2021	WMC	Mandeep Walia	16
22	Induction Training	06.10.2021	WMC	Mandeep Walia	10
23	Induction Training	07.10.2021	WMC	Mandeep Walia	4
24	Induction Training	07.10.2021	WMC	Mandeep Walia	5
25	Induction Training	09.10.2021	WMC	Mandeep Walia	3

26	Induction Training	10.10.2021	WMC	Mandeep Walia	5
27	Induction Training	11.10.2021	WMC	Mandeep Walia	6
28	Induction Training	18.10.2021	WMC	Mandeep Walia	6
29	Induction Training	18.10.2021	WMC	Mandeep Walia	5
30	Induction Training	23.10.2021	WMC	Mandeep Walia	12
31	Induction Training	23.10.2021	WMC	Mandeep Walia	9
32	Induction Training	24.10.2021	WMC	Mandeep Walia	10
33	Induction Training	26.10.2021	WMC	Mandeep Walia	13
34	Induction Training	28.10.2021	WMC	Mandeep Walia	11
35	CWT	10.11.2021	WMC	Mandeep Walia	6
36	CWT	10.11.2021	WMC	Mandeep Walia	7
37	Traffic Management SST	13.11.2021	Site	Mandeep Walia	7
38	EHS Alert No - 21 and 22	16.11.2021	Site	Mandeep Walia	8
39	CWT	16.11.2021	WMC	Mandeep Walia	14
40	CWT	17.11.2021	WMC	Mandeep Walia	11
41	Mock Drill	22.11.2021	Site	Mandeep Walia	10
42	Excavation Work Safety SST	24.11.2021	Site	Mandeep Walia	8
43	P&M Work Safety ot	24.11.2021	Site	Mandeep Walia	8
44	Electrical Safety SST	25.11.2021	Site	Mandeep Walia	7
45	Road Work Safety SST	26.11.2021	Site	Mandeep Walia	11
46	EHS Alert no - 23 and 24	26.11.2021	Site	Mandeep Walia	9
47	Traffic Management SST	27.11.2021	Site	Mandeep Walia	8
48	Mock Drill	27.11.2021	Site	Mandeep Walia	11
49	EHS Alert No 26 and 27	29.11.2021	Site	Mandeep Walia	9
50	Height Work Safety SST	30.11.2021	Site	Mandeep Walia	9
51	Induction Training	10.11.2021	WMC	Mandeep Walia	10
52	Induction Training	10.11.2021	WMC	Mandeep Walia	11
53	Induction Training	13.11.2021	WMC	Mandeep Walia	7
54	Induction Training	16.11.2021	WMC	Mandeep Walia	11
55	Induction Training	16.11.2021	WMC	Mandeep Walia	15
56	Induction Training	17.11.2021	WMC	Mandeep Walia	10
57	Induction Training	19.11.2021	WMC	Mandeep Walia	1
58	Induction Training	24.11.2021	WMC	Mandeep Walia	8
59	Induction Training	26.11.2021	WMC	Mandeep Walia	16
60	Induction Training	27.11.2021	WMC	Mandeep Walia	3
61	Induction Training	29.11.2021	WMC	Mandeep Walia	7
62	Induction Training	29.11.2021	WMC	Mandeep Walia	5
63	CWT	01.12.2021	WMC	Mandeep Walia	9
64	EHS Alert No 28,29,30	02.12.2021	Site	Mandeep Walia	14
65	EHS Alert No 28,29,30	02.12.2021	Site	Mandeep Walia	8
66	EHS Alert No - 30	05.12.2021	Site	Mandeep Walia	7
67	EHS Alert No - 29	08.12.2021	Site	Mandeep Walia	7
68	Fire Mock Drill	10.12.2021	Site	Mandeep Walia	27
69	Mock Drill	15.12.2021	Site	Mandeep Walia	7
70	Height Work Safety SST	16.12.2021	Site	Mandeep Walia	14
71	CWT	17.12.2021	WMC	Mandeep Walia	11
72	EHS Alert No - 30 and 31	18.12.2021	Site	Mandeep Walia	7
73	CWT	20.12.2021	WMC	Mandeep Walia	7
74	EHS Alert no - 31 ,32 and 33	24.12.2021	Site	Mandeep Walia	18
75	Induction Training	01.12.2021	WMC	Mandeep Walia	5
76	Induction Training	01.12.2021	WMC	Mandeep Walia	5
77	Induction Training	02.12.2021	WMC	Mandeep Walia	7
78	Induction Training	02.12.2021	WMC	Mandeep Walia	14
79	Induction Training	04.12.2021	WMC	Mandeep Walia	9
80	Induction Training	08.12.2021	WMC	Mandeep Walia	4
81	Induction Training	17.12.2021	WMC	Mandeep Walia	7

82	Induction Training	20.12.2021	WMC	Mandeep Walia	14
83	Induction Training	20.12.2021	WMC	Mandeep Walia	14
84	Fire Fighting Training ot	06.01.2021	Site	Mandeep Walia	15
85	CWT	07.01.2022	WMC	Mandeep Walia	13
86	Mock Drill	08.01.2022	Site	Mandeep Walia	8
87	Electrical Work Safety sst	08.01.2022	Site	Mandeep Walia	6
88	CWT	10.01.2022	WMC	Mandeep Walia	8
89	EHS Alert No - 36	11.01.2022	Site	Mandeep Walia	7
90	Defensive Drive ot	11.01.2022	WMC	Mandeep Walia	12
91	Fire Fighting Training ot	15.01.2022	Site	Mandeep Walia	17
92	Confined Space Work Safety sst	18.01.2022	Site	Mandeep Walia	9
93	EHS Alert No - 33	20.01.2022	Site	Mandeep Walia	6
94	CWT	27.01.2022	WMC	Mandeep Walia	15
95	Mock Drill	27.01.2022	Site	Mandeep Walia	6
96	Confined Space Work Safety sst	29.01.2022	Site	Mandeep Walia	10
97	EHS Alert No - 36 And 37	31.01.2022	Site	Mandeep Walia	20
98	Induction Training	07.01.2022	WMC	Mandeep Walia	12
99	Induction Training	10.01.2022	WMC	Mandeep Walia	5
100	Induction Training	10.01.2022	WMC	Mandeep Walia	13
101	Induction Training	17.01.2022	WMC	Mandeep Walia	13
102	Induction Training	18.01.2022	WMC	Mandeep Walia	10
103	Induction Training	27.01.2022	WMC	Mandeep Walia	15
104	Induction Training	27.01.2022	WMC	Mandeep Walia	6
105	EHS Alert No - 36 And 37	03.02.2022	Site	Mandeep Walia	8
106	EHS Alert no- 35	07.02.2022	Site	Mandeep Walia	9
107	CWT	09.02.2022	WMC	Mandeep Walia	14
108	CWT	10.02.2022	WMC	Mandeep Walia	9
109	Excavation Work Safety sst	10.02.2022	Site	Mandeep Walia	7
110	Height Work Safety sst	11.02.2022	Site	Mandeep Walia	6
111	EHS Alert no - 38 and 39	14.02.2022	Site	Mandeep Walia	10
112	Mock Drill	15.02.2022	Site	Mandeep Walia	8
113	Height Work Safety sst	16.02.2022	Site	Mandeep Walia	7
114	CWT	17.02.2022	WMC	Mandeep Walia	7
115	CWT	19.02.2022	WMC	Mandeep Walia	9
116	View EHS Implementation ot	21.02.2022	Office	Mandeep Walia	16
117	P&M Work Safety ot	22.02.2022	Site	Mandeep Walia	7
118	CWT	24.02.2022	WMC	Mandeep Walia	21
119	Mock Drill	28.02.2022	Site	Mandeep Walia	10
120	View EHS & Power Bi Analysis ot	28.02.2022	Office	Mandeep Walia	20
121	Induction Training	01.02.2022	WMC	Mandeep Walia	18
122	Induction Training	09.02.2022	WMC	Mandeep Walia	14
123	Induction Training	10.02.2022	WMC	Mandeep Walia	14
124	Induction Training	10.02.2022	WMC	Mandeep Walia	7
125	Induction Training	17.02.2022	WMC	Mandeep Walia	7
126	Induction Training	19.02.2022	WMC	Mandeep Walia	5
127	Induction Training	19.02.2022	WMC	Mandeep Walia	17
128	Induction Training	24.02.2022	WMC	Mandeep Walia	15
129	Induction Training	24.02.2022	WMC	Mandeep Walia	6
130	EHS Alert no- 40	02.03.2022	Site	Mandeep Walia	6
131	CWT	05.03.2022	WMC	Mandeep Walia	12
132	Electrical Work Safety	07.03.2022	WMC	Mandeep Walia	7
133	Height Work Safety	08.03.2022	Site	Mandeep Walia	7
134	CWT	10.03.2022	WMC	Mandeep Walia	12
135	Confined Space Safety ot	11.03.2022	Site	Mandeep Walia	11

136	EHS Alert no- 36	14.03.2022	Site	Mandeep Walia	9
137	Mock Drill	14.03.2022	Site	Mandeep Walia	14
138	Electrical Work Safety	16.03.2022	WMC	Mandeep Walia	8
139	Mock Drill	29.03.2022	Site	Mandeep Walia	6
140	Height Work Safety	30.03.2022	Site	Mandeep Walia	7
141	Induction Training	11.03.2022	WMC	Mandeep Walia	11
Ratangarh Town					
1	Excavation safety training	02/10/2021 08/10/2021	L&T OFFICE	Musthafa	8 08
2	Site specific training	04/10/2021	STP 3.8	Musthafa	15
3	EHS alert training	29/10/2021	L&T OFFICE	Musthafa	12
4	Excavation training	12/11/2021 20/11/2021	L&T OFFICE	Musthafa	14 08
5	Site specific training	24/11/2021	L&T OFFICE	Musthafa	16
6	EHS alert training	16/12/2021	L&T OFFICE	Musthafa	12
7	Site specific training	22/12/2021 25/12/2021	L&T OFFICE	Musthafa	10 08
1	ELECTRICAL SAFETY TRAINING	05.01.2022	L&T OFFICE	Musthafa	08
2	Site Specific Training	10-01-2022	L&T OFFICE	Musthafa	15
3	EHS Alert Training	18-01-2022	L&T OFFICE	Musthafa	12
4	EXCAVATION SAFETY TRAINING	08-02-2022	L&T OFFICE	Musthafa	08
5	DEFENSIVE TRAINING	15-02-2022	L&T OFFICE	Musthafa	14
6	EXCAVATION SAFETY TRAINING	22-02-2022	L&T OFFICE	Musthafa	08
7	DEFENSIVE TRAINING	02-03-2022	STP 3.8MLD	Musthafa	16
8	EHS ALERT TRAINING	07-03-2022	L&T OFFICE	Musthafa	12
9	ELECTRICAL SAFETY TRAINING	15-03-2022	STP 3.8MLD	Musthafa	10
10	SITE SPESIFIC TRAINING	22-03-2022	L&T OFFICE	Musthafa	08
Laxmangarh Town					
1	CWT	08.01.2022	Site	Vinayak Dev	2
2	CWT	11.01.2022	WMC	Vinayak Dev	2
3	EHS Alert Training		WMC	Vinayak Dev	4
4	Induction	08.01.2022	WMC	Vinayak Dev	2
5	Induction	11.01.2022	WMC	Vinayak Dev	2
6	Induction	11.01.2022	WMC	Vinayak Dev	2
7	Other Training	08.01.2022	WMC	Vinayak Dev	9
8	SST	10.01.2022	Site	Vinayak Dev	4
9	SST	10.01.2022	EHS Alert Training	Vinayak Dev	3
10	SST	11.01.2022	WMC	Vinayak Dev	4
11	SST	12.01.2022	Site	Vinayak Dev	5
12	Mock Drill	13.01.2022	WMC	Vinayak Dev	3
13	Induction	19.01.2022	WMC	Vinayak Dev	6
14	CWT	19.01.2022	WMC	Vinayak Dev	6
15	Induction	25.01.2022	WMC	Vinayak Dev	12
16	CWT	25.01.2022	WMC	Vinayak Dev	12
17	CWT	27.01.2022	WMC	Vinayak Dev	15
18	Induction	27.01.2022	WMC	Vinayak Dev	15
19	Mock Drill	27.01.2022	WMC	Vinayak Dev	7
20	Induction	31.01.2022	WMC	Vinayak Dev	13

21	CWT	31.01.2022	WMC	Vinayak Dev	13
22	SST	02.02.2022	WMC	Vinayak Dev	6
23	Induction	04.02.2022	WMC	Vinayak Dev	12
24	Other	04.02.2022	WMC	Vinayak Dev	12
25	Mock Drill	05.02.2022	WMC	Vinayak Dev	7
26	Induction	05.02.2022	WMC	Vinayak Dev	1
27	CWT	05.02.2022	WMC	Vinayak Dev	1
28	Induction	05.02.2022	Site	Vinayak Dev	3
29	CWT	05.02.2022	WMC	Vinayak Dev	3
30	CWT	09.02.2022	WMC	Vinayak Dev	2
31	CWT	12.02.2022	WMC	Vinayak Dev	13
32	CWT	14.02.2022	WMC	Vinayak Dev	2
33	Induction	09.02.2022	WMC	Vinayak Dev	2
34	Induction	13.02.2022	WMC	Vinayak Dev	13
35	Induction	14.02.2022	WMC	Vinayak Dev	2
36	Induction	15.02.2022	Site	Vinayak Dev	2
37	SST	04.02.2022	WMC	Vinayak Dev	6
38	SST	10.02.2022	WMC	Vinayak Dev	4
39	SST	15.02.2022	WMC	Vinayak Dev	4
40	EHS Alert Training	0.5.02.2022	Site	Vinayak Dev	4
41	CWT	21.02.2022	WMC	Vinayak Dev	1
42	CWT	21.02.2022	WMC	Vinayak Dev	5
43	EHS Alert Training	17.02.2022	Site	Vinayak Dev	3
44	EHS Alert Training	18.02.2022	WMC	Vinayak Dev	6
45	EHS Alert Training	21.02.2022	Site	Vinayak Dev	2
46	Induction	21.02.2022	Site	Vinayak Dev	1

Pratapgarh Town

1	Electrical safety	05.01.2022	Indra colony	ASHUTOSH	12
2	Material handling safety	10.01.2022	SPS	ASHUTOSH	10
3	Housing Keeping	16.01.2022	STP	ASHUTOSH	25
4	Electrical safety	20.01.2022	SPS	ASHUTOSH	25
5	Road Safety	24.01.2022	Bagwas	ASHUTOSH	12
6	Housing Keeping	27.01.2022	Areapati	ASHUTOSH	10
7	Electrical Safety	30.01.2022	Nakoda Nager	ASHUTOSH	10
8	Excavation Safety	05.02.2022	SPS	ASHUTOSH	05
9	Loading unloading Safety	08.02.2022	Neemuch Road	ASHUTOSH	07
10	Electrical Safety	11.02.2022	Nakoda Nager	ASHUTOSH	06
11	Housing Keeping	14.02.2022	Ahinsa Nager	ASHUTOSH	08
12	Excavation Safety	18.02.2022	Ahinsa Nager	ASHUTOSH	09
13	Loading unloading Safety	21.02.2022	Manpura village	ASHUTOSH	09
14	Road Safety	24.02.2022	Siddhivinayak Nagar	ASHUTOSH	08
15	Material handling Safety	28.02.2022	STP	ASHUTOSH	07
16	Housing Keeping	02.03.2022	Ahinsa Nagar	ASHUTOSH	08
17	Road Safety	06.03.2022	Nai Awadi	ASHUTOSH	10
18	Loading unloading Safety	08.03.2022	Nakoda Nagar	ASHUTOSH	08
19	Electrical Safety	10.03.2022	STP	ASHUTOSH	07
20	Material handling	12.03.2022	Talai Mohalla	ASHUTOSH	08
21	Electrical Safety	13.03.2022	Nai Awadi	ASHUTOSH	06
22	Work at Height Safety	15.03.2022	STP	ASHUTOSH	07
23	Loading unloading Safety	20.03.2022	Bhatpura	ASHUTOSH	06
24	Material handling Safety	22.03.2022	Velocity	ASHUTOSH	08
25	Ladder Safety	14.03.2022	Manpura	ASHUTOSH	12

26	Excavation Safety	24.03.2022	Ahinsa Nagar	ASHUTOSH	12
27	Housing Keeping	25.03.2022	Bagwas	ASHUTOSH	12
28	Soil Collapse	25.03.2022	Neemuch Raod	ASHUTOSH	10
Banswara Town					
1	Material handling safety	18.10.2021	Banswara	Heera Babu	80
2	Tree Plantation	21.10.2021	Banswara	Heera Babu	08
3	House keeping	05.11.2021	Banswara	Md. Faizal	18
4	Road safety	15.11.2021	Banswara	Md. Faizal	35
5	HIV/AIDS Awareness Training	01.12.2021	Banswara	Md. Faizal	50
6	Excavation Safety	08.12.2021	Banswara	Md. Faizal	35
7	General Health Check up	17.12.2021	Banswara	Md. Faizal	50
8	Loading unloading safety	16.01.2022	Banswara	Md. Faizal	09
9	Tree Plantation	04.01.2022	Banswara	Md. Faizal	11
10	Labour Meeting	21.01.2022	Banswara	Md. Faizal	35
11	COVID-19 Training	Twice per Month	Banswara	Md. Faizal	75
12	Traffic Training	Twice per Month	Banswara	Md. Faizal	45
13	Road Safety & General awareness	24.02.2022	Banswara	Md. Faizal	65
14	House Keeping & Excavation Safety	13.03.2022	Banswara	Md. Faizal	20

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


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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 9: PREVENTION AND CONTROL MEASURES ADOPTED IN RSTDSP FOR COVID-19



Safe Operating Procedures (SOP) and COVID-19 Management Plan for Construction works

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Safe Operating Procedures (SOP) and COVID-19 Management Plan for Construction works

Safe Operating Procedure (SOP) and COVID-19 Management Plan for Construction Works during COVID-19 Situation

I. INTRODUCTION

- Coronavirus disease (COVID-19) is an infectious disease caused by a newly discovered coronavirus.
- Most people infected with the COVID-19 virus will experience mild to moderate respiratory illness and recover without requiring special treatment. Older people, and those with underlying medical problems like cardiovascular disease, diabetes, chronic respiratory disease, and cancer are more likely to develop serious illness.
- The COVID-19 virus spreads primarily through droplets of saliva or discharge from the nose when an infected person coughs or sneezes, so it's important that you also practice respiratory etiquette (for example, by coughing into a flexed elbow) and maintain social distancing
- At this time, there are no specific vaccines or treatments for COVID-19. However, there are many ongoing clinical trials evaluating potential treatments

II. PURPOSE

- This document¹ is intended to supplement formal EH&S policies, procedures and plans that the contractor has in place for its employees and staff working in RSTDSP projects. Hence, this document is not intended to replace any formalized procedures currently in place for the Contractor. Where this guideline does not meet or exceed the standards put forth by the Contractor, the Contractor shall abide by the most stringent procedure available.
- In addition to prevailing EH&S Plan in all projects, Safe Operating Procedures specific to COVID-19 are prepared by working contractors and being followed in all work sites.
- Existing EH&S Officer of contractor to be given additional responsibility of COVID-19 Officer² to implement and monitor the COVID-19 SOPs. The EH&S officer cum COVID-19 Officer² at the Contractor's worksite (appointed by Contractor and agreed by PIU) will submit a written weekly report to the Client's Representative (PIU Head). The EH&S Officer cum COVID-19 Officer shall certify that the Contractor and all subcontractors are in full compliance with these guidelines.
- The EH&S Officer cum COVID-19 officer should monitor all sites on daily basis.
- Any issue of non-compliance with these guidelines shall be a basis for the suspension of work. The Contractor will be required to submit a corrective action plan (on the next day or immediately as per the nature of issue) detailing each issue of non-conformance and a plan to rectify the issue(s). The Contractor will not be allowed to resume work until the plan is approved by the Client (PIU). Any additional issues of non-conformance may be subject to action against the Contractor's as health & safety/safeguard clauses of the contract.
- Construction sites operating during the Covid-19 pandemic need to ensure they are

¹ This document may be made available in the local language, and the salient features would be displayed through signages at the appropriate locations throughout work sites and stretches by the Contractor for wider dissemination and awareness

² The existing safeguards officer OR health & safety officer OR supervisor of the contractor can be designated as COVID-19 officer by undergoing the training available at

(a) <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/training/online-training>

(b) <https://openwho.org/courses/protect-acute-respiratory-infections>

(c) <https://openwho.org/courses/COVID-19-IPC-EN>

Safe Operating Procedures (SOP) and COVID-19 Management Plan for Construction works

protecting their workforce and minimizing the risk of spread of infection.

- This guidance is intended to introduce consistent measures on sites of all sizes in line with the Government's recommendations on social distancing.
- These are exceptional circumstances and the contractor and PIU must remain abreast of and comply with the latest Government advice on COVID-19 at all times.
- The health and safety requirements of any construction activity must also not be compromised at this time. If an activity cannot be undertaken safely due to a lack of suitably qualified personnel being available or social distancing being implemented, it should not take place.
- It is to be noted that emergency services/medical services are also under great pressure and may not be in a position to respond as quickly as usual.
- Sites should remind the workforce at every opportunity of the Worksite Procedures which are aimed at protecting them, their colleagues, their families and the nearby population.

If a worksite is not consistently implementing the measures in this document, it may be required to shut down.

III. COVID-19 TYPICAL SYMPTOMS

- Fever
- Cough
- Shortness of Breath
- Sore Throat

IV. PRINCIPLES OF WORKER PROTECTION

- Consistently practice social distancing
- Cover coughs and sneezes
- Maintain hand hygiene
- Clean surfaces frequently

V. MAXIMUM PRECAUTION FOR PERSONS/LABOURERS REPORTING TO WORK

- IF SICK, STAY HOME!
- IF SICK DURING WORK, GO HOME!
- IF SOMEONE SICK, SEND THEM HOME!

VI. PPEs AND SANITIZATION ARRANGEMENTS

Contractor to provide face masks (of the type approved by Government for use to protect persons from COVID-19) to all persons working in or visiting the worksite. At each worksite hand sanitizers/soap shall be kept and workers will be required to regularly sanitize/wash hands with soap. If any object is to be used by several workers, all workers shall be provided hand gloves. Full sanitization of worksite and work objects shall be done every day before start of works. This along with procedures set out in this document is for maximum precaution to protect all persons/labourers at all times.

VII. HEALTH CHECK UP AND THERMAL SCANNING

All persons at the worksite should have their temperature screened by COVID-19 officer with Infrared Thermometer (handheld non-contact).

Health checkup of all workers and staff shall be done by a medical practitioner on weekly basis. If any suspected COVID-19 infected person is found, he shall immediately reported to local authority/govt. recognized COVID-19 hospital. Thermal scanning shall be done of each worker and staff before entering to site and office and if any person has more than normal

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Safe Operating Procedures (SOP) and COVID-19 Management Plan for Construction works

temperature, he shall not be allowed to enter site/office. Such person shall be sent back to home/work camp and regular daily monitoring of his temperature shall be done and if temperature remains high he shall be reported to local authority/govt. recognized COVID-19 hospital for further treatment/quarantine.

VIII. SELF ATTESTATION BY PERSONS/LABOUR PRIOR TO WORK

Prior to starting a work (on daily basis), each labour /worker will self-attest to the supervisor:

- no signs of COVID-19 symptoms within the past 24 hours,
- No contact with an individual diagnosed with COVID-19. (contact means living with a positive person, being within 6 ft of positive person OR sharing things of positive person)
- Not undergone quarantine or isolation (in case of any labourer /worker who has been quarantined or isolated previously, the engagement shall be only after obtaining the requisite clearance)

The engagement of workers falling in the high-risk category such as workers over the age of 55 years, with underlying medical conditions or health issues, etc. should be done only after obtaining the requisite clearance from trained and registered medical practitioners.

The self-attestation would be verified in collaboration with trained and registered medical practitioners deployed at site through discussions with laborers /workers and/or preliminary checks such as temperature checks, etc. prior to their engagement at site.

In addition, the Contractor shall mandatorily follow all medical test requirements for the workers prior to their engagement and/or mobilization at site as per the guidelines issued by the Central and State government agencies and WHO from time to time.

Persons/Labourers showing COVID-19 symptoms or not providing self-attestation shall be directed to leave the work site and report to the Govt. recognized hospital/quarantine centre immediately. Labour not to return to the work site until cleared by Govt. recognized hospital /quarantine centre.

IX. GENERAL PRECAUTIONS TO BE FOLLOWED AT PERMANENT SITES/OFFICES

- No handshake, Only Namaste
- Non-essential physical work that requires close contact between workers should not be carried out
- Work requiring physical contact should not be carried out
- Plan all other work to minimise contact between workers
- Wash hands often (every 1-2 hrs or frequently as possible) with soap for at least 20 seconds
- Use hand sanitizer
- No person should enter the work site other than the authorized persons mentioned by supervisor during start of work
- All must implement social distancing² by maintaining a minimum distance of 6-feet from others³ at all times to eliminate the potential of cross contamination.
- Avoid face to face meetings – critical situations requiring in-person discussion must follow social distance i.e., 6 ft from others.
- Conduct all meetings via conference calls, if possible. Do not convene meetings of

² Social distancing may not be practical for undertaking certain specific activities within the workplace. It is therefore important to review the work method statements for these types of activities to assess impact and how to find safe ways of doing in line with best available guidance

Safe Operating Procedures (SOP) and COVID-19 Management Plan for Construction works

- more than 10 people. Recommend use of cell phones, texting, web meeting sites and conference calls for project discussion
- All individual work group meetings/ talks should follow social distancing
- At each job briefing /toolbox talk, employees are asked if they are experiencing any symptoms, and are sent home if they are
- Each worksite should have displayed laminated COVID-19 safety guidelines and handwashing instructions (seen Annexure for display pictographs)
- All restroom /toilet facilities should be cleaned (min twice a day), and handwashing facility must be provided with soap, hand sanitizer and paper towels
- All surfaces should be regularly cleaned, including mobiles, tabletops /surfaces, door handles, laptops, records, etc.
- All common areas and meeting areas are to be regularly cleaned (min twice a day) and disinfected at least twice a day
- All persons to maintain their own water bottle, and should not be shared.
- To avoid external contamination, it is recommended everyone bring food from home
- Maintain Social Distancing separation during breaks and lunch.
- Cover coughing or sneezing with a tissue, then throw the tissue in the trash and wash hands, if no tissue is available then cough /sneeze into your upper sleeves or elbow. Do not cough or sneeze into your hands.
- Clean your hands after coughing or sneezing thoroughly by using soap and water (minimum for 20 seconds). If soap and water are not available, please use a hand sanitizer. The Contractor shall ensure adequate quantities of sanitizer and soap are made available at all locations including site offices, meeting rooms, corridors, washrooms /toilets, etc. as appropriate.
- Avoid touching eyes, nose, and mouth with your hands
- To avoid sharing germs, please clean up after Yourself. DO NOT make others responsible for moving, unpacking and packing up your personal belongings
- If you or a family member is feeling ill, stay home!⁴
- Work schedules are adjusted to provide time for proper cleaning and disinfecting as required.

X. TEMPORARY WORK-SITE (PIPE LAYING SITES) PREVENTION PRACTICES

- At the start of each shift, confirm with all employees that they are healthy and inform all workers of reusable and disposable PPE.
- Outside person(s) should be strictly prohibited at worksite
- All construction workers will be required to wear cut-resistant gloves or the equivalent.
- Use of eye protection (reusable safety goggles/face shields) is recommended. The supply of eye protection equipment to the workers is considered as a standard part of PPE during construction works.
- In work conditions where required social distancing is impracticable to achieve, such employees shall be supplied with standard face mask, gloves, and eye protection.
- All employees shall drive to work site in a single occupant vehicle. Staff shall not ride together in the same vehicle
- When entering a machine or vehicle which you are not sure you were the last person to enter, make sure that you wipe down the interior and door handles with disinfectant (with 1% sodium hypochlorite solution) prior to entry. Adequate quantity of the disinfectant shall be provided by the Contractor at all such site-specific locations.
- Workers should maintain separation of 6 feet from each other.
- Multi person activities will be limited where feasible (two persons lifting activities)
- Gathering places on the site such as sheds and/or break areas will be eliminated, and

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Safe Operating Procedures (SOP) and COVID-19 Management Plan for Construction works

- instead small break areas will be used with seating limited to ensure social distancing.
- Contact the cleaning person of the worksite and ensure proper COVID-19 sanitation processes. Increase cleaning/disinfection visits to at least 2 times a day. Cleaning person(s) to be provided with gloves, gown and face mask for each cycle of cleaning. The Contractor shall make available adequate supply of PPE and chemicals while the threat of COVID-19 continues.
- Clean all high contact surfaces a minimum of twice a day in order to minimize the spread of germs in areas that people touch frequently. This includes but is not limited to desks, laptops and vehicles
- All employees to maintaining good health by getting adequate sleep; eating a balanced, healthy diet, avoid alcohol; and consume plenty of fluids.
- Continuation of works in construction project with workers available on site and no workers to be brought in from outside
- The site offices shall have adequate ventilation. The air conditioning or ventilation systems installed at the site offices would have high-efficiency air filters to reduce the risk of infection. The frequency of air changes may be increased for areas where close personal proximity cannot be fully prevented such as control rooms, elevators, waiting rooms, etc.
- The Contractor shall carry out contactless temperature checks for the workers prior to site entrance, during working hours and after site works to identify persons showing signs of being unwell with the COVID-19 symptoms

XI. WASHING FACILITY

- All worksites should have access to toilet and hand washing facility.
- Providing hand cleaning facilities at entrances and exits. This should be soap and water wherever possible or hand sanitizer if water is not available
- Washing facility with hot water, and soap at fire hydrants or other water sources to be used for frequent handwashing for all onsite employees
- All onsite workers must help to maintain and keep stations clean
- If a worker notices soap or towels are running low or out, immediately notify supervisors. Proactively supervisor should make sure shortage situation never occurs.
- Garbage bins will be placed next to the hand wash facility for discarding of used tissues/towels with regular removal and disposal facility (end of each day)

XII. CLEANING PROCEDURES

Increase cleaning/disinfection visits to at least 2 times a day. Cleaning person(s) to be provided with gloves, gown and face mask for each cycle of cleaning.

Each worksite should have enhanced cleaning and disinfection procedures that are posted and shared including sheds, gates, equipment, vehicles, etc. and shall be posted at all entry points to the sites, and throughout the project site. These include common areas and high touch points like

- Taps and washing facilities
- Toilet flush and seats
- Door handles and push plates
- Handrails on staircases and corridors
- Lift and hoist controls
- Machinery and equipment controls
- Food preparation and eating surfaces
- Telephone equipment / mobiles
- Keyboards, photocopiers and other office equipment

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Safe Operating Procedures (SOP) and COVID-19 Management Plan for Construction works

Re-usable PPEs⁴ should be thoroughly cleaned after use and not shared between workers

XIII. LABOUR CAMP

Contractor shall follow a zero-tolerance policy on wearing of masks.

Masks (homemade can be thought of) to be provided to all the persons/labourers for use at the camp site as well as at the worksite. Increase cleaning/disinfection visits to at least 2 times a day. Cleaning person(s) to be provided with disposable gloves, gown and face mask for each cycle of cleaning.

Toilet Facility

- Restrict the number of people using toilet facility at any one time e.g. appoint one welfare attendant among the labours.
- Wash hands before and after using the facilities
- Enhance the cleaning regimes for toilet facilities particularly door handles, locks and the toilet flush
- Portable toilets should be avoided wherever possible, but where in use these should be cleaned and emptied more frequently
- Provide suitable and sufficient rubbish bins for hand towels with regular removal and disposal.

Eating/snacks Arrangements

- Provide permanent (till society is safe from COVID-19) on-camp/off-camp cook/helpers can be implemented. Make sure that the "Guidelines for food handling, preparation and distribution during COVID-19" and its regular updates are being followed.
- Whilst there is a requirement for construction camps to provide a means of heating food and making hot water, these are exceptional circumstances and where it is not possible to introduce a means of keeping equipment clean between use, etc. must be removed from use.
- Contractor to arrange all daily need items and grocery at site itself and no worker is allowed to go to shops for daily need items.
- Dedicated eating areas should be identified on camp to reduce food waste and contamination
- Break times should be staggered to reduce congestion and contact at all times
- Hand cleaning facilities or hand sanitizer should be available at the entrance of any room where people eat and should be used by workers when entering and leaving the area
- Workers should sit 2 metres apart from each other whilst eating and avoid all contact
- Where catering is provided on camp, it should provide pre-prepared and wrapped food only
 - Payments should be taken by contactless options wherever possible
 - Crockery, eating utensils, cups etc. should be avoided wherever possible
- Drinking water should be provided with enhanced cleaning measures of the tap mechanism introduced
- Tables should be cleaned between each use
- All rubbish should be put straight in the bin and not left for someone else to clear up; only covered pedal operated bins should be used and the bins should be cleared and cleaned regularly, with strict adherence to safety protocols for disposal and hygiene maintenance (including proper PPE's such as gloves, mask and apron worn by the

⁴ Advisory on use of Homemade Protective Cover for Face & Mouth by GOI

Safe Operating Procedures (SOP) and COVID-19 Management Plan for Construction works

waste handler/cleaner and disposal at a designated place);

- All areas used for eating must be thoroughly cleaned at the end of each break and shift, including chairs, door handles, etc.

Changing Facilities, Bathrooms, Showers and Drying Areas

- Introduce staggered start and finish times to reduce congestion and contact at all times
- Introduce enhanced cleaning of all facilities throughout the day and at the end of each day
- Consider increasing the number or size of facilities available on camp if possible
- Based on the size of each facility, determine how many people can use it at any one time to maintain a distance of two metres
- Provide suitable and sufficient garbage bins in these areas with regular removal and disposal.
- Visitor log should be strictly maintained at the labour camp.

COVID-19 officer will ensure compliance with prevention issues at the labour camp(s).

XIV. UPDATES ON COVID-19

The Contractor shall be in touch with the Department of Health & Family Welfare and Labour Department to identify any potential worksite exposures relating to COVID-19, including:

- Strictly follow the guidelines issued by Ministry of Health and Family Welfare
- Other workers, vendors, inspectors, or visitors to the worksite with close contact to the individual
- Labour Camps / Work areas such as designated workstations or rooms /sheds
- Work tools and equipment
- Common areas such as break rooms, tables and sanitary facilities

Also refer the following websites from time to time for regular updates.

<https://www.mohfw.gov.in/>

This document can be updated from time to time based on the advisories or directions of the Govt.

XV. TRAINING

- PIU to ensure all workers get training on above requirements before start of any construction activity
- During construction period frequent visual and verbal reminders to workers can improve compliance with hand hygiene practices and thus reduce rates of infection. Handwashing posters should also be displayed at work site and labour camps

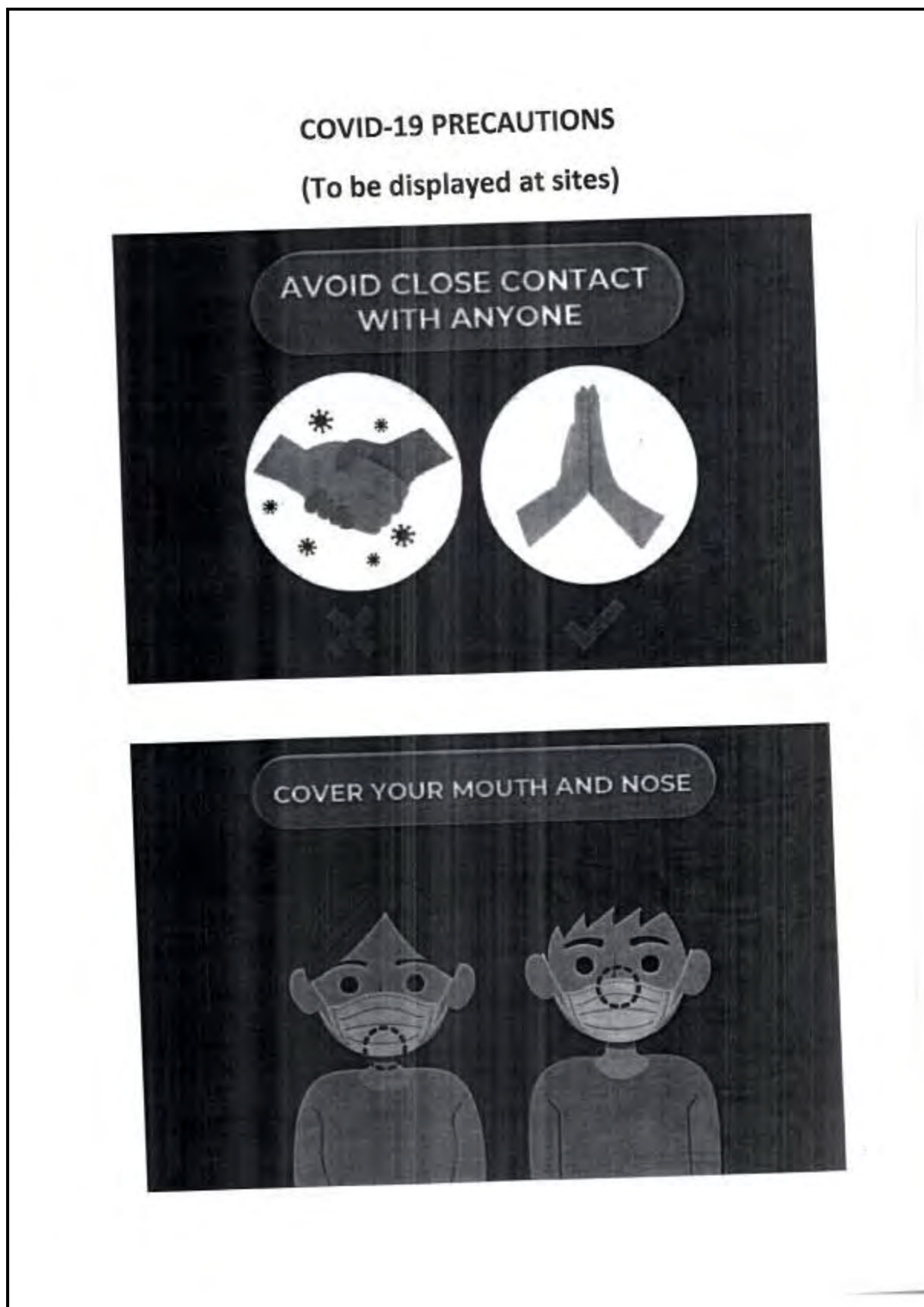
XVI. EMERGENCY CONTACT

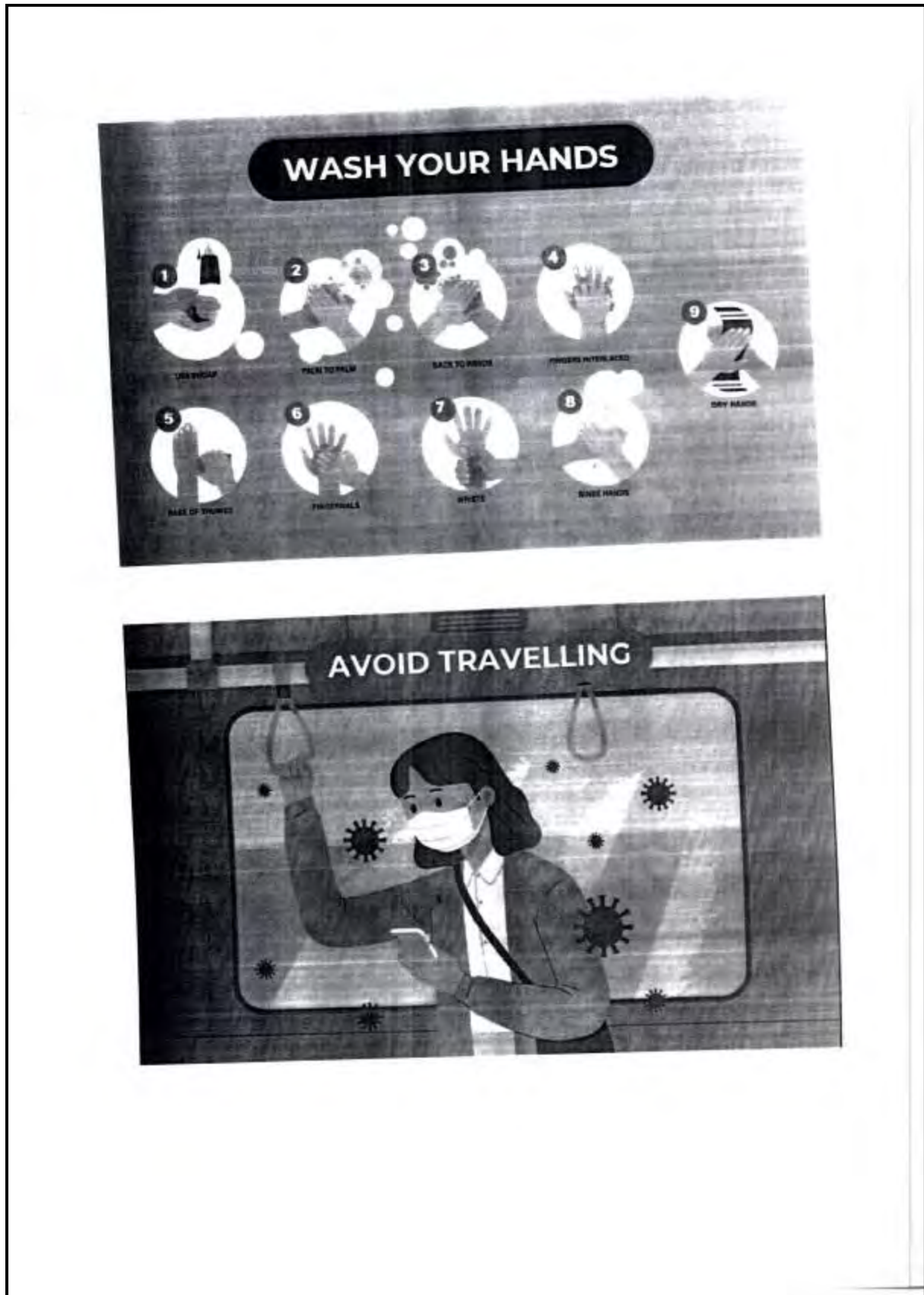
- Provide emergency contact number(s) at work site and labour camp for reporting COVID-19 symptoms

Ensure all staff and personal use the Aarogya Setu app, recommended by GOI for tracking COVID-19 patients.

Shakeem
Team Leader
PMCBC, RSTDSP Jaipur

ESS, PMBC
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COVID-19 (Awareness, Prevention and Control) Compliance by Towns during October 2021 to March 2022

S. No.	Activities done	Date	Location	No. of Participants	Remarks
Kuchaman Town					
1	Mask Distribution	Oct '21 to Dec'21	Kuchaman	50	
2	Sanitization for office, workmen camps, guest houses and sites	Oct '21 to Dec'21	Kuchaman	Maximum	
3	Awareness Training Program for workmen and staff	Oct '21 to Dec'21	Training centre camp & Office Camp	300	
4	Display of Signage for Covid-19 Awareness	Oct '21 to Dec'21	All site areas	Maximum	
5	Separate Isolation facilities for workmen and staffs	Oct '21 to Dec'21	Workmen camps	N/A	
6	Mask Distribution	January 2022	Kuchaman	120	
7	Sanitization for office, workmen camps, guest houses and sites	January 2022	Kuchaman	Maximum	
8	Awareness Training Program for workmen and staff	January 2022	Training centre camp	300	
9	Display of Signage for Covid-19 Awareness	January 2022	All site areas	Maximum	
10	Separate Isolation facilities for workmen and staffs	January 2022	Workmen camps	N/A	
11	Mask Distribution	January 2022	Kuchaman	90	
12	Sanitization for office, workmen camps, guest houses and sites	January 2022	Kuchaman	Maximum	
13	Awareness Training Program for workmen and staff	January 2022	Training centre camp	300	
14	Display of Signage for Covid-19 Awareness	January 2022	All site areas	Maximum	
15	Separate Isolation facilities for workmen and staffs	January 2022	Workmen camps	N/A	
16	Mask Distribution	March 2022	Kuchaman	120	
17	Sanitization for office, workmen camps, guest houses and sites	March 2022	Kuchaman	Maximum	
18	Awareness Training Program for workmen and staff	March 2022	Training centre camp	250	
19	Display of Signage for Covid-19 Awareness	March 2022	All site areas	Maximum	
20	Separate Isolation facilities for workmen and staffs	March 2022	Workmen camps	N/A	

Didwana Town					
1	Site medical visit 1	02/12/21	Zone 06	5	
2	Site medical visit 2	09/12/21	Zone 05	8	
3	Site medical visit 3	16/12/21	Zone 11	7	
4	Site medical visit 4	23/12/21	Zone 06	6	
5	Mask Distribution	02/12/21	All Zones	100	
6	Site medical visit 1	02/01/22	Zone 06	5	
7	Site medical visit 2	09/01/22	Zone 05	8	
3	Site medical visit 3	16/01/22	Zone 11	7	
8	Site medical visit 4	23/01/22	Zone 06	6	
9	Mask Distribution	02/01/22	All Zones	100	
10	Automatic Sanitizer Dispenser installation	02/01/22	Office	5	
11	COVID awareness campaign	09/01/22	All Zones	100	
12	Vaccination campaign	16/01/22	All Zones	80	
13	COVID kit testing	23/01/22	All Zones	20	
14	Blood Donation	02/01/22	All Zones	20	
15	Dis-infection	02/01/22	All Zones	100	
16	Site medical visit 1	02/03/22	Zone 08	5	
17	Site medical visit 2	09/03/22	Zone 05	8	
18	Site medical visit 3	16/03/22	Zone 07	7	
19	Site medical visit 4	23/03/22	Zone 06	6	
Makrana Town					
1	Site medical visit 1	09/12/21	Zone 06	5	
2	Site medical visit 2	16/12/21	Zone 05	8	
3	Site medical visit 3	02/12/21	Zone 04	7	
4	Site medical visit 4	09/12/21	Zone 07	6	
5	Mask Distribution	16/12/21	All Zones	100	
6	Site medical visit 1	09/01/22	Zone 06	5	
7	Site medical visit 2	16/01/22	Zone 05	8	
8	Site medical visit 3	02/01/22	Zone 04	7	
9	Site medical visit 4	09/01/22	Zone 07	6	
10	Mask Distribution	16/01/22	All Zones	100	
11	Automatic Sanitizer Dispenser installation	02/01/22	Office	5	
12	COVID awareness campaign	09/01/22	All Zones	100	
13	Vaccination campaign	16/01/22	All Zones	80	
14	COVID kit testing	23/01/22	All Zones	20	
15	Blood Donation	02/01/22	All Zones	20	
16	Dis-infection	02/01/22	All Zones	100	
17	Site medical visit 1	09/03/22	Zone 06	5	
18	Site medical visit 2	16/03/22	Zone 05	8	
19	Site medical visit 3	02/03/22	Zone 04	7	
20	Site medical visit 4	09/03/22	Zone 07	6	
Khetri Town					
1	Mask & Safety Glove	04-10-2021	Ward No. 13	6	Mask & Safety Glove
2	Mask & Body temperature Checked	12-10-2021	Ward No.22	4	Mask & Body temperature Checked

3	Covid 19	20-10-2021	Ward No.14	5	Covid 19
4	Sanitizer & Body temperature Checked	09-11.2021	Ward No. 13	7	Sanitizer & Body temperature Checked
5	Mask & Sanitizer	18-11.2021	Ward No.22	5	Mask & Sanitizer
6	Mask & Safety Glove	29-11-2021	Ward No. 12	6	Mask & Safety Glove
7	Mask & Sanitizer	06-12-2021	Ward No-17	4	
8	Mask & Safety Glove	21-12-2021	Ward No-19	6	
9	Thermal screening at the site on a daily basis	On Daily Basis	All locations	N/A	
10	Sanitization activity at the site on a daily basis	On Daily Basis	All locations	N/A	
11	Thermal screening at the site on a daily basis	On Daily Basis	All locations	N/A	
12	Mask & Sanitizer	03-01-2022	Ward No. 13	3	
13	Sanitizer &Body temperature	13-01-2022	Ward No. 14	4	
14	Mask & Safety Glove	23-01-2022	Ward No.13	3	
15	Thermal screening at the site on a daily basis	On Daily Basis	All locations	N/A	
16	Sanitization activity at the site on a daily basis	On Daily Basis	All locations	N/A	
17	Thermal screening at the site on a daily basis	On Daily Basis	All locations	N/A	
18	Mask & Sanitizer	02-02-2022	Ward No. 20	5	
19	Sanitizer &Body temperature	15-02-2022	Ward No. 14	4	
20	Mask & Safety Glove	26-02-2022	Ward No.07	3	
21	Thermal screening at the site on a daily basis	On Daily Basis	All locations	N/A	
22	Sanitization activity at the site on a daily basis	On Daily Basis	All locations	N/A	
23	Thermal screening at the site on a daily basis	On Daily Basis	All locations	N/A	
24	Mask & Sanitizer	03-01-2022	Ward No. 13	3	
25	Sanitizer &Body temperature	13-01-2022	Ward No. 14	4	
26	Mask & Safety Glove	23-01-2022	Ward No.13	3	
27	Mask & Sanitizer	02-02-2022	Ward No. 20	5	
28	Sanitizer &Body temperature	15-02-2022	Ward No. 14	4	
29	Mask & Safety Glove	26-02-2022	Ward No.7	3	
30	Mask & Sanitizer	03-03-2022	Ward No. 14	4	
31	Sanitizer &Body temperature	11-03-2022	Ward No. 13	4	
32	Mask & Safety Glove	23-03-2022	Ward No.07	3	
33	Thermal screening at the site on a daily basis	On Daily Basis	All locations	N/A	
34	Sanitization activity at the site on a daily basis	On Daily Basis	All locations	N/A	
35	Thermal screening at the site on a daily basis	On Daily Basis	All locations	N/A	

Ladnu Town					
1	Mask Distribution	02-12-2021	STP area	80	
2	Covid vaccination for workmen	04-12-2021	Store yard	20	
3	Mask Distribution	10-01-2022	SPS area	180	
Mandawa Town					
1	Thermal screening at the site on a daily basis	On Daily Basis	All locations	N/A	
2	Sanitization activity at the site on a daily basis	On Daily Basis	All locations	N/A	
3	Thermal screening at the site on a daily basis	On Daily Basis	All locations	N/A	
Abu Road Town					
1	Thermal Screening at site	On Daily Basis	All Locations	80	
2	Regular Disinfection Activity	On Weekly Basis	All Locations	80	
3	Hand Sanitization Activity	On Daily Basis	All Locations	80	
4	Mask and Soap Distribution	On Weekly Basis	All Locations	80	
Sirohi Town					
1	Awareness in daily PEP talk	Everyday	All Locations	95	
2	Awareness and Poster Display	On Weekly Basis	All Locations	85	
3	Thermal Screening at site	On Daily Basis	All Locations	95	
4	Regular Disinfection Activity	On Weekly Basis	All Locations	95	
Sardarshahar Town					
1	COVID-19 Awareness & Precautions Training In Daily PEP	On Daily Basis	Project Site	-	
2	Hand Sanitization Activity	On Daily Basis	All Locations	-	
3	Disinfection	Twice in a day	All Locations	-	
4	Thermal Screening	Everyday	All Locations	-	
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	18.10.2021 28.10.2021 15.11.2021, 07.11.2021, 18.12.2021, 25.01.2022, 11.02.2022, 23.03.2022	Site & Office Conference Room, Store , STP Rest Area ,SPS 0.6 MLD Rest Area	130	
4	Thermal Screening	Everyday	All Locations	-	

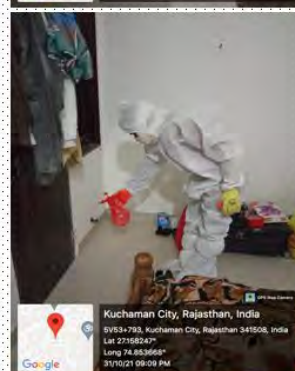
Ratangarh Town					
1	Office disinfection	05.11.2021, 15.11.2021	AT L&T OFFICE	NA	
2	Office ,Labor Camp Disinfection	25.02.2022	AT L&T OFFICE, LABOR CAMP	NA	
3	Hand Sanitization Activity	Regular Basis	All Locations	NA	
4	COVID-19 Awareness & Precautions Training	Once in a week	-	-	
5	Thermal Screening	Everyday	All Locations		
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	COVID-19 Training	05.10.2021, 15.10.2021, 25.10.2021, 15.11.2021, 05.12.2021, 15.01.2022, 25.02.2022	At the site	87	-
3	Hand Sanitization	Regular Basis	All Locations	NA	
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 October 2021 to March 2022

Kuchaman Town



Dis-Infection



Didwana Town



Covid-19 Vaccination



Covid-19 Vaccination



Mask Distribution

Makrana Town**Fogging****Fogging****Covid -19 Awareness**

Khetri Town**Thermal Scanning****Hand Sanitization****Covid -19 Vaccination****Covid -19 Sample Collection**

Ladnu Town



Covid -19 Vaccination Camp



Fogging



Mask Distribution



Mandawa Town



Thermal Scanning



Hand Sanitization



Covid -19 Awareness



Covid -19 Awareness

Abu Road Town



COVID-19 Awareness Training Programme at Labour Camp and Mask Distribution

Sirohi Town	
	
COVID-19 Awareness Posters	PEP Talk & COVID-19 Awareness All Site
Sardarshahar Town	
	
Thermal scanning of the workers	Hand sanitization of the workers
Ratangarh Town	
	
Mask & Sanitizer Distribution	Office & Labor Camp Disinfection
Fatehpur Town	
	
Awareness among workers against COVID-19	Regular Disinfection Activity

Laxmangarh Town	
	
Awareness Campaigns against COVID-19	Glucose Distribution
	
Disinfection	Hand Sanitization and Thermal Screening
Pratapgarh Town	
	
Thermal Screening at the site	Face Mask Distribution
Banswara Town	
	
Hand Sanitization	Thermal Screening

**Appendix 10: ENVIRONMENTAL MONITORING RESULTS DURING October 2021 -
March 2022 IN RSTDSP
Air Monitoring Results**

	Package / Town / Monitoring Location	Monitoring date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO
					µg/m ³		
	National AAQ Standard (24 hours)		100	60	80	80	2000
	Applicable 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)
1	RSTDIP/KTR/03						
	Khetri Town (25.10.2021 To 26.10.2021)						
	Near UP Koshadhikari Office	25.10.2021	71.52	38.36	8.12	17.42	280
	Near Old PHED office	25.10.2021	78.62	40.32	8.32	18.36	330
	Near Ajeet Govt. Hospital	25.10.2021	64.68	35.45	6.86	16.72	290
	Near JEN Staff Colony	26.10.2021	56.58	36.42	7.16	15.32	300
	In Jai Singh Govt. School	26.10.2021	65.06	37.27	6.28	14.26	270
	Near ITI College	26.10.2021	70.18	38.06	7.16	16.14	290
	Near Prashashanik Bhawan	26.10.2021	72.70	37.44	7.18	15.02	310
	Khetri Town (23.02.2022 To 04.03.2022)						
	Near UP Koshadhikari Office	23.02.2022	70.40	39.10	8.60	16.55	290
	Near Old PHED office	22.02.2022	79.05	39.10	8.65	17.10	300
	Near Ajeet Govt. Hospital	22.02.2022	62.90	32.60	7.05	16.90	280
	Near JEN Staff Colony	22.02.2022	67.05	35.20	7.67	16.65	310
	In Jai Singh Govt. School	23.02.2022	62.10	33.30	6.05	13.15	270
	Near ITI College	23.02.2022	71.10	38.90	7.80	17.10	290
	Near Prashashanik Bhawan	23.02.2022	73.05	39.20	7.70	16.10	310
2	RSTDIP/KMN/02						
	Kuchaman Town						
	RUIDP Office (Near SPS-02)	30.12.2021 to 01.01.2022	81	38	7.05	38	0.56
	Near STP.	30.12.2021 to 01.01.2022	77	41	6.9	33	0.59
	Old CWR, Near PHED Office	30.12.2021 to 01.01.2022	95	47	8.1	43	0.54

	Package / Town / Monitoring Location	Monitoring date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO
	Rama Memorial School	30.12.2021 to 01.01.2022	71	36	9.3	35	0.48
	Store Area	30.12.2021 to 01.01.2022	82	45	8.7	3.0	0.58
3	RSTDIP/MDW/03						
	Mandawa Town						
	SPS-1 (PHED) Campus beside SPS Site	28.01.2022 to 29.01.2022	27.28	71.45	16.41	9.49	0.61
	CWR Site-1	28.01.2022 to 29.01.2022	28.67	74.36	18.19	10.20	0.64
	STP Site-1	28.01.2022 to 29.01.2022	29.86	76.25	20.65	10.69	0.66
	Pipe laying site within the preferably near sensitive receptor-1	28.01.2022 to 29.01.2022	30.16	78.21	21.81	10.93	0.68
4	RSTDIP/DID/01						
	Didwana Town						
	STP-1	27.01.2022 to 29.01.2022	69	26	8.2	24	0.50
	SPS-2, Near Power House	27.01.2022 to 29.01.2022	84	39	6.7	31	0.43
	Pipe Laying Site-1	27.01.2022 to 29.01.2022	76	36	8.2	22	0.48
	SPS-1, Near Temple	27.01.2022 to 29.01.2022	89	41	7.4	18	0.51
5	RSTDIP/MKN/01						
	Makrana Town						
	STP-01	25.01.2022 To 27.01.2022	83	42	8.2	22	0.42
	SPS-2, Matabhar	25.01.2022 To 27.01.2022	75	38	8.9	16.0	0.52
	SPS-1	25.01.2022 To 27.01.2022	71	36	7.4	18.0	0.55
	Pipe-laying Site	25.01.2022 To 27.01.2022	81	32	9.7	23	0.42
6	RSTDIP/LDN/01						
	Ladnu Town						
	STP-2, Ladnu	29.01.2022 To 31.01.2022	86	46	9.7	23.0	0.57
	STP-1	29.01.2022 To 31.01.2022	88	32	10	26	0.53
	Pipe Laying Site-1	29.01.2022 To 31.01.2022	79	30	8.9	24	0.40
7	RSTDIP/SHR-ABR/01						
	Abu Road						
	Sewer Network Talhati	20.11.2021 to 21.11.2021	90.25	48.10	12.07	23.22	0.51
	Manpur Workman colony	20.11.2021 to 21.11.2021	74.16	32.40	9.69	17.24	0.48
	Santpur STP & WTP	20.11.2021 to 21.11.2021	77.25	37.10	10.29	17.56	0.82

	Package / Town / Monitoring Location	Monitoring date		PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO
8	Sirohi Town							
	Work Man Habitat & 5.0 MLD STP	10.03.2022 to 11.03.2022		71.84	28.61	10.45	16.27	0.67
	Near 1.7 MLD STP	10.03.2022 to 11.03.2022		65.27	27.19	9.89	16.12	0.56
	WTP 9 MLD at Angore PHED camps	10.03.2022 to 11.03.2022		62.58	26.34	9.18	15.22	0.44
	Vaidnath colony	10.03.2022 to 11.03.2022		70.45	28.68	10.24	17.61	0.46
9	RSTDIP/PRT/01							
	Pratapgarh Town							
	New STP 7.0 MLD	22.10.2021		86.42	44.25	8.92	25.4	560
	SPS PLOT	22.10.2021		79.63	38.52	7.14	19.50	510
	Bagwas (Lateral Site)	22.10.2021		83.62	40.42	8.05	21.16	530
10	RSTDIP/BNS/04							
	Banswara Town							
	WTP-AEN (PHED) Campus	15.11.2021 to 17.11.2021		74.2	38.4	12.1	16.4	372
	Kagdi Site	15.11.2021 to 17.11.2021		68.4	32.8	10.4	15.2	244
	STP Site	15.11.2021 to 17.11.2021		73.1	36.4	11.2	15.4	394
	SPS At Nathelav pond	15.11.2021 to 17.11.2021		66.2	31.4	12.1	16.3	442
	SPS at Pratapgarh Road	15.11.2021 to 17.11.2021		58.4	27.1	9.2	13.4	246
	Additional Custom Chauraha (Laying)	15.11.2021 to 17.11.2021		86.1	45.3	16.8	22.4	598
11	RSTDIP/ SRD/01							
	Sardarshahar Town							
	STP-1 (2.30 MLD), South Campus	05.03.2022 to 06.03.2022		77.18	32.54	11.55	20.61	680
	STP-2 (3.40 MLD), North Campus	05.03.2022 to 06.03.2022		82.87	34.63	12.98	21.22	780
	PHED Campus- CWR (2400 KL)	05.03.2022 to 06.03.2022		88.45	37.61	16.51	29.33	920
	Site Zone -2 (HDPE Laying)	05.03.2022 to 06.03.2022		76.47	30.26	10.86	18.52	730
	Sewer Laying	05.03.2022 to 06.03.2022		72.67	28.42	9.86	16.98	640
12	RSTDIP/RTG/01							
	Ratangarh Town							
	SPS 3.8 MLD Ratangarh	16.03.2022 to 24.03.2022		85.28	43.49	10.92	22.63	300
	STP 3.8 MLD Ratangarh	16.03.2022 to 24.03.2022		82.69	39.56	9.11	20.43	320
	Labour Camp	16.03.2022 to 24.03.2022		83.67	41.35	10.80	21.76	280
	SPS 4.6 MLD	16.03.2022 to 24.03.2022		81.30	40.27	10.91	22.48	280

	Package / Town / Monitoring Location	Monitoring date		PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO
	Near Govt. Hospital	16.03.2022 to 24.03.2022		75.29	34.65	9.16	19.73	260
13	RSTDIP/FTP/01							
	Fatehpur							
	STP 4.3 MLD	28.09.2021 to 29.09.2021		74.51	34.26	9.12	14.87	710
	SPS 3.5 MLD Dholi sati Temple	28.09.2021 to 29.09.2021		76.54	33.61	12.02	18.66	680
	Aksa Masjid Zone-2	28.09.2021 to 29.09.2021		73.67	31.29	10.28	18.24	730
	SPS 1.1 MLD Near Railway Underpass	28.09.2021 to 29.09.2021		78.11	34.62	11.32	18.37	740
	Salasar Road Zone	29.09.2021 to 30.09.2021		76.28	33.74	10.81	19.16	720
14	RSTDIP/LXG/01							
	Laxmangarh							
	PHED A. En Campus	04.11.2021 to 10.11.2021		84.35	38.61	11.14	18.22	0.71
	Bad ke Balaji PHED campus	04.11.2021 to 10.11.2021		89.23	43.17	9.39	18.12	0.76
	Murali Monohar Mandir (Zone 2 & 5)	04.11.2021 to 10.11.2021		87.27	39.15	11.04	18.34	0.78
	Power House (Zone 4 & 8)	04.11.2021 to 10.11.2021		71.54	36.48	11.87	17.31	0.73
	Workmen Camp	04.11.2021 to 10.11.2021		94.18	34.72	12.44	18.31	0.69
	Ex En Campus Laxmangarh	04.11.2021 to 10.11.2021		77.18	35.18	12.55	2037	0.74

Noise Monitoring Results

	Package / Town / Monitoring Location	Monitoring date	Type of area	Noise Level Leq (dB(A))	
				Day time	Night time
	Noise Standard (National)		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)
1	RSTDIP/KTR/03				
	Khetri Town (25.10.2021 to 26.10.2021)			Day Time	Night Time
	Near UP Koshadhikari Office	25.10.2021	Residential	58.7	47.3
	Near Old PHED office	25.10.2021	Residential	57.3	45.1
	Near Ajeet Govt. Hospital	25.10.2021	Residential	51.7	40.3
	Near JEN Staff Colony	26.10.2021	Residential	56.2	44.1
	In Jai Singh Govt. School	26.10.2021	Residential	55.6	42.3
	Proposed Site	26.10.2021	Residential	58.3	46.1
	Near Prashashanik Bhawan	26.10.2021	Residential	56.7	41.5
	Khetri Town (21.02.2022 to 22.02.2022)				
	Near UP Koshadhikari Office	21.02.2022	Residential	59.3	46.4
	Near Old PHED office	21.02.2022	Residential	55.1	42.3
	Near Ajeet Govt. Hospital	21.02.2022	Residential	56.4	45.1
	Near JEN Staff Colony	21.02.2022	Residential	57.6	46.2
	In Jai Singh Govt. School	22.02.2022	Residential	56.8	41.1
	Proposed Site	22.02.2022	Residential	60.0	48.1
	Near Prashashanik Bhawan	22.02.2022	Residential	56.9	42.2
2	RSTDIP/KMN/02				
	Kuchaman Town				
	RUIDP Office (Near SPS-02)	30.12.2021 to 01.01.2022	Residential	69.3	49.1
	Near STP.	30.12.2021 to 01.01.2022	Residential	69.1	56.5
	Old CWR, Near PHED Office	30.12.2021 to 01.01.2022	Residential	75.4	59.0
	Rama Memorial School	30.12.2021 to 01.01.2022	Residential	71.2	53.6
	Store Area	30.12.2021 to 01.01.2022	Residential	72.1	52.7
3	RSTDIP/MDW/03				
	Mandawa Town				
	SPS-1 (PHED) Campus beside SPS Site	28.01.2022 to 29.01.2022	Residential	49.44	39.87
	CWR Site-1	28.01.2022 to 29.01.2022	Residential	52.34	41.28
	STP Site-1	28.01.2022 to 29.01.2022	Residential	53.67	42.48
	Pipe laying site within the preferably near sensitive receptor-1	28.01.2022 to 29.01.2022	Residential	55.14	43.48

	Package / Town / Monitoring Location	Monitoring date	Type of area	Noise Level Leq (dB(A))	
4	RSTDIP/DID/01				
	Didwana Town				
	STP-1	27.01.2022 to 28.01.2022	Residential	69.0	58.8
	SPS-2, Near Power House	27.01.2022 to 28.01.2022	Residential	74.2	62.6
	Pipe Laying Site-1	27.01.2022 to 28.01.2022	Residential	70.0	59.1
	SPS-1, Near Temple	27.01.2022 to 28.01.2022	Residential	68.7	57.1
5	RSTDIP/MKN/01				
	Makrana Town				
	STP Site, Borawar Road	25.01.2022 To 26.01.2022	Residential	73.3	60.2
	SPS-1, Jhalara Pond	25.01.2022 To 26.01.2022	Residential	69.5	60.0
	SPS-2, Matabhar	25.01.2022 To 26.01.2022	Residential	70.2	58.4
	Pipe Laying Site, Near UMA Hospital	25.01.2022 To 26.01.2022	Residential	72.0	62.5
6	RSTDIP/LDN/01				
	Ladnu Town				
	STP-2, Ladnu	29.01.2022 To 30.01.2022	Residential	71.1	60.5
	Pipe Laying Site	29.01.2022 To 30.01.2022	Residential	74.6	64.2
	STP-1	29.01.2022 To 30.01.2022	Residential	68.4	57.4
7	RSTDIP/SHR-ABR/01				
	Abu Road Town				
	Sewer Network Talhati	20.11.2021 to 21.11.2021	Residential	56.10	44.92
	Manpur Workman colony	20.11.2021 to 21.11.2021	Residential	59.02	44.12
	Santpur STP & WTP	20.11.2021 to 21.11.2021	Residential	59.25	46.25
8	Sirohi Town				
	Work Man Habitat & 5.0 MLD STP	10.03.2022 to 11.03.2022	Residential	59.32	43.15
	Near 1.7 MLD STP	10.03.2022 to 11.03.2022	Residential	61.35	43.97
	WTP 9 MLD at Angore PHED camps	10.03.2022 to 11.03.2022	Residential	60.27	41.47
	Vaidnath colony	10.03.2022 to 11.03.2022	Residential	57.84	42.61
9	RSTDIP/PRT/01				
	Pratapgarh Town				
	New STP 7.0 MLD	22.10.2021	Residential	63.4	49.8
	SPS PLOT	22.10.2021	Residential	54.2	45.8
	Bagwas (Lateral Site)	22.10.2021	Residential	60.2	48.0
10	RSTDIP/BNS/04				
	Banswara Town				
	WTP-AEN (PHED) Campus	15.11.2021	Residential	54	46
	Kagdi Site	17.11.2021	Residential	48	41
	STP Site	15.11.2021	Residential	58	50
	SPS At Nathelav pond	16.11.2021	Residential	60	49
	SPS at Pratapgarh Road	16.11.2021	Residential	52	44
	Additional Custom Chauraha (Laying)	17.11.2021	Residential	72	66
11	RSTDIP/SRD/01				
	Sardarshahar Town				
	STP-1 (2.30 MLD) South Campus	05.03.2022 to 06.03.2022	Residential	43.26	39.48
	STP-2 (3.40 MLD) North Campus	05.03.2022 to 06.03.2022	Residential	49.64	38.76
	PHED Campus-CWR (2400 KL) & PH at Hanumangarh Road	05.03.2022 to 06.03.2022	Residential	52.94	47.66

	Package / Town / Monitoring Location	Monitoring date	Type of area	Noise Level Leq (dB(A))	
	Site Zone -2 (HDPE Laying	05.03.2022 to 06.03.2022	Residential	46.72	38.69
	Sewer Laying	05.03.2022 to 06.03.2022	Residential	51.78	40.65
12	RSTDIP/RTG-FTP-LXG/01				
	Ratangarh				
	SPS 3.8 MLD	16.03.2022 to 24.03.2022	Residential	66.3	45.4
	STP 3.8 MLD	16.03.2022 to 24.03.2022	Residential	65.7	44.3
	Labour Camp	16.03.2022 to 24.03.2022	Residential	61.3	42.1
	SPS 4.6 MLD	16.03.2022 to 24.03.2022	Residential	59.5	41.4
	Govt Hospital Ratangarh	16.03.2022 to 24.03.2022	Residential	47.6	34.9
13	Fatehpur				
	STP 4.3 MLD	28.09.2021 to 29.09.2021	Residential	53.61	42.57
	SPS 3.5 MLD Dholi sati Temple	28.09.2021 to 29.09.2021	Residential	54.35	42.68
	Aksa Masjid Zone-2	28.09.2021 to 29.09.2021	Residential	55.87	44.69
	SPS 1.1 MLD Near Railway Underpass	28.09.2021 to 29.09.2021	Residential	57.13	46.98
	Salasar Road Zone	29.09.2021 to 30.09.2021	Residential	56.81	45.29
14	Laxmangarh				
	PHED A. En Campus	04.11.2021 to 10.11.2021	Residential	52.89	43.12
	Bad ke Balaji PHED campus	04.11.2021 to 10.11.2021	Residential	55.17	44.62
	Murali Monohar Mandir (Zone 2 & 5)	04.11.2021 to 10.11.2021	Residential	53.47	42.66
	Power House (Zone 4 & 8)	04.11.2021 to 10.11.2021	Residential	56.24	45.39
	Workmen Camp	04.11.2021 to 10.11.2021	Residential	58.22	46.94
	Ex En Campus Laxmangarh	04.11.2021 to 10.11.2021	Residential	54.16	42.88

Surface Water Quality Monitoring

S. No	Parameter	RSTDIP/BNS/04	Drinking water standards (desirable – permissible value)
		Date of Sampling: 28.01.2022	
		STP site -1 Near Pond	
1	pH(at 25°C)	8.46	6.5 – 8.5
2	Colour	-	
3	Turbidity	2.8	5-10
4	Odour	-	
5	Conductivity	-	750 - 2000
6	Total Hardness	228	300-600
7	Sodium	1547.0	
8	Potassium	261	
9	Alkalinity	-	200-600
10	Chloride	2447	250-1000
11	Magnesium	8.2	30-100
12	TDS	6890	500-2000
13	TSS	37.0	
14	Sulphate	1366	200-400
15	Calcium	78	
16	Fluoride	Less than 0.1	1-1.5
17	Oil & Grease	-	
18	DO	6.4	
19	COD	317	
20	BOD	28.0	
21	Nitrate	48.0	45-100
22	Nitrite	-	Nil
23	Iron	0.3	0.3-1.0
24	Total Chromium	Less than 0.01	
25	Zinc	Less than 0.02	5-15
26	Copper	Less than 0.02	0.05-1.5
27	Manganese	Less than 0.02	0.1-0.3
28	Lead	Less than 0.005	0.01-0.05
29	Arsenic	Less than 0.005	0.01-0.05
30	TC	-	10
31	FC	-	<2.00
32	Mercury	Less than 0.01	
33	Boron (As B)	Less than 0.5	

Surface Water Quality Monitoring
Surface Water Quality Monitoring
RSTDIP/RTG-FTP-LXG/01
(Ratangarh Date of sampling: 16.03.2022 to 24.03.2022)

S. No.	Parameters	Units	Results
			At SPS 3.8 MLD
1	pH	-	7.78
2	Total Suspended Solids	mg/l	--
3	Total Dissolved solids	mg/l	878.00
4	Biological Oxygen Demand	mg/l	--
5	Chemical Oxygen Demand	mg/l	--
6	Oil & Grease	mg/l	BDL

Ground water Quality Monitoring Results

S. No	Parameter	RSTDIP/ PRT/01 Pratapgarh	RSTDIP/BNS/04 Banswara	Drinking water standards (desirable – permissible value)
		Date of Sampling: 22.10.2021	Date of Sampling: 17.11.2021	
		WMP,- Village Manpur	Kagdi Intake	
1	pH(at 25°C)	8.96	7.60	6.5 – 8.5
2	Colour	-	-	
3	Turbidity	<1	2.2	5-10
4	Odour	-	-	
5	Conductivity	-	-	750 - 2000
6	Total Hardness	495.34	104	300-600
7	Sodium	108.23	16	
8	Potassium	68.90	3	

S. No	Parameter	RSTDIP/ PRT/01 Pratapgarh	RSTDIP/BNS/04 Banswara	Drinking water standards (desirable – permissible value)
		Date of Sampling: 22.10.2021	Date of Sampling: 17.11.2021	
		WMP,- Village Manpur	Kagdi Intake	
9	Alkalinity	813.7	-	200-600
10	Chloride	847.43	28	250-1000
11	Magnesium	55.89	8.7	30-100
12	TDS	2326.5	202	500-2000
13	TSS	134.7	8	
14	Sulphate	254.10	6.24	200-400
15	Calcium	105.24	32	
16	Fluoride	01.93	0.9	1-1.5
17	Oil & Grease	-	-	
18	DO	0.28	5	
19	COD	421.80	BDL<4	
20	BOD	114.00	BDL<2	
21	Nitrate	42.14	-	45-100
22	Nitrite	-	-	Nil
23	Iron	0.54	0.22	0.3-1.0
24	Total Chromium	BDL	BDL	
25	Zinc	0.75	0.18	5-15
26	Copper	0.04	0.05	0.05-1.5
27	Manganese	0.05	0.08	0.1-0.3
28	Lead	BDL	BDL	0.01-0.05
29	Arsenic	BDL	-BDL	0.01-0.05
30	TC	-	-	10
31	FC	-	-	<2.00
32	Mercury	BDL	BDL	
33	Boron (As B)	BDL	0.05	

Ground water Quality Monitoring Results

Ground water Quality Monitoring Results (Continued—2)

S. No	Parameter	RSTDIP/KTR/03	RSTDIP/KMN/02		RSTDIP/MDW/03			Drinking water standards (desirable – permissible value)
		Khetri Town (Date of Sampling: 22.02.2022)	Kuchaman Town		Mandawa Town Date os sampling: 28.01.2022			
		Siddhi Vinayak Temple	RUIDP Office (Near SPS-02)	Near Bus Stand (Near STP)	STP-1	CWR site-1	SPS-01 (PHED)	
1	pH(at 25°C)	7.62	8.92	8.3	7.86	7.92	7.98	6.5 – 8.5
2	Temperature	-	-					
3	Turbidity	-	-					5-10
4	Conductivity	-	-					750 - 2000
5	Total Hardness	196.0	72.0	795.0	156.80	176.40	186.20	300-600
6	Calcium	-	1200.0		-			75-200
7	Sodium	-	-					
8	Potassium	-	-		-			
9	Alkalinity	220	572.0	480.0	473.55	688.80	738.0	200-600
10	Chloride	165.98	372.0	176	27.10	291.82	312.67	250-1000
11	Magnesium	-	-	<0.02				30-100
12	TDS	265.0	1534.0	876.0	680	1200	1380	500-2000
13	TSS	-	-					
14	Sulphate	73.14	121.0	92.0	20.70	92.71	103.49	200-400
15	Phosphate	BDL	<0.15	0.49	0.27	0.44	0.48	
16	Fluoride	0.34	1.1	0.79	0.47	0.71	0.72	1-1.5
17	Oil & Grease	-						
18	DO	6.4	5.4	5.4	6.2	5.9	6.1	
19	Copper as Cu	0.12	<0.02	<0.02	BDL	BDL		
20	Phenolic Compound	BDL	<0.001	<0.001	BDL	BDL		45-100
21	Nitrate	19.24	20.0	28.0	22.62	33.12	36.75	Nil
22	Nitrite	-	-	-				0.3-1.0
23	Iron	0.14	<0.05	<0.05	0.14	0.16	0.18	
24	Total Chromium		-	<0.01	BDL	BDL	BDL	5-15

S. No	Parameter	RSTDIP/KTR/03	RSTDIP/KMN/02		RSTDIP/MDW/03			Drinking water standards (desirable – permissible value)
		Khetri Town (Date of Sampling: 22.02.2022)	Kuchaman Town		Mandawa Town Date os sampling: 28.01.2022			
		Siddhi Vinayak Temple	RUIDP Office (Near SPS-02)	Near Bus Stand (Near STP)	STP-1	CWR site-1	SPS-01 (PHED)	
25	Zinc		<0.02	<0.02	BDL	BDL	BDL	0.05-1.5
26	Cadmium as Cd		<0.001	<0.001	BDL	BDL	BDL	0.1-0.3
27	Manganese		<0.02	<0.02	BDL	BDL	BDL	0.01-0.05
28	Lead		<0.005	<0.005	BDL	BDL	BDL	0.01-0.05
29	Arsenic		<0.005	<0.005	BDL	BDL	BDL	10

Ground water Quality Monitoring Results (Continued—3)

S. No	Parameter	RSTDIP/SHR-ABR/01					RSTDIP/PRT/01					Drinking water standards (desirable – permissible value)
		Abu Road (Date of Sampling (20.11.2021))		Sirohi (Date of sampling (10.03.2022))			Pratapgarh (Date of Sampling 17.02.2022)			Pratapgarh Date of sampling 22.10-2021		
		Santpur STP & WTP	Manpur Workman colony	WTP 9 at MLD Angore PHED camps	STP 1.7 MLD near Ravder Road	Near Workman camp/ STP 5MLD	RMC plant	Housing board	STP	SPS Site	MWP Site	
1	pH(at 25°C)	7.68	7.64	7.68	7.63	7.76	7.23	7.05	7.01	7.53	7.47	6.5 – 8.5
2	Temperature	-	-	-	-	-	-	-	-	-	-	
3	Turbidity	-	-	-	-	-	<01	<01	<01	<01	<01	5-10
4	Conductivity	-	-	-	-	-	-	-	-	-	-	750 - 2000
5	Total Hardness	188.60	174.80	220.14	192.27	228.32	451.89	251.05	301.26	296.00	156.80	300-600
6	Calcium	55.31	51.62	67.60	62.19	71.26	160.86	80.43	100.54	104.58	49.72	75-200
7	Sodium	-	-	-	-	-	54.12	87.10	66.10	52.60	29.80	
8	Potassium	-	-	-	-	-	24.35	39.15	29.74	28.40	12.60	
9	Alkalinity	166.46	154.28	203.18	194.67	218.17	180.27	299.44	220.33	284.00	120.00	200-600

S. No	Parameter	RSTDIP/SHR-ABR/01					RSTDIP/PRT/01					Drinking water standards (desirable – permissible value)
		Abu Road (Date of Sampling (20.11.2021))		Sirohi (Date of sampling (10.03.2022))			Pratapgarh (Date of Sampling 17.02.2022)			Pratapgarh Date of sampling 22.10-2021		
		Santpur STP & WTP	Manpur Workman colony	WTP 9 MLD at Angore PHED camps	STP 1.7 MLD near Ravder Road	Near Workman camp/ STP 5MLD	RMC plant	Housing board	STP	SPS Site	MWP Site	
10	Chloride	386.59	371.05	448.12	434.14	473.65	555.31	188.24	216.47	116.50	142.36	250-1000
11	Magnesium	12.30	11.18	13.29	12.16	14.68	2.43	2.43	2.50	8.75	3.05	30-100
12	TDS	974.30	933.30	1260.00	1230.00	1320.00	1356.10	773.40	676.50	622.40	488.70	500-2000
13	TSS	-	-	-	-	-	2.80	773.40	1.40	14.50	4.80	
14	Sulphate	110.89	94.76	141.51	136.57	158.36	166.59	65.88	75.60	44.02	57.03	200-400
15	Phosphate	-	-	-	-	-	-	-	-	-	-	
16	Fluoride	0.68	0.62	0.78	0.74	0.82	0.20	0.13	0.15	0.10	0.07	1-1.5
17	Oil & Grease	-	-	-	-	-	-	-	-	-	-	
18	DO	-	-	-	-	-	5.02	4.75	4.80	4.96	5.14	
19	COD	-	-	-	-	-	16.70	6.40	6.90	12.90	12	
20	BOD	-	-	-	-	-	2.84	1.42	1.50	2.43	1.93	45-100
21	Nitrate	12.73	10.49	16.59	14.61	22.14	16.20	26.13	19.80	22.76	8.30	Nil
22	Nitrite	-	-				-	-	-		-	0.3-1.0
23	Iron	0.22	0.18	0.26	0.24	0.24	0.11	0.07	0.08	0.05	0.04	5-15
24	Total Chromium	-	-	-	-	-	-	-	-	-	-	0.05-1.5
25	Zinc	-	-	-	-	-	0.26	0.20	0.16	0.32	0.18	0.1-0.3
26	Copper	-	-	BDL (DL0.02)	BDL (DL0.02)	BDL (DL0.02)	B.D.L.	-	-	0.01	-	0.01-0.05
27	Manganese	-	-	BDL(DL0.05)	BDL(DL0.05)	BDL(DL0.05)	-	-	-	-	-	0.01-0.05
28	Lead	-	-	BDL(DL0.005)	BDL(DL0.005)	BDL(DL0.005)	-	-	-	-	-	10
29	Arsenic	-	-	BDL(DL0.005)	BDL(DL0.005)	BDL(DL0.005)	-	-	-	-	-	5-15

Ground water Quality Monitoring Results (Continued—4)

S. No	Parameter	RSTDIP/BNS/04				RSTDIP/SRD/01						Drinking water standards (desirable – permissible value)
		Banswara (Date of sampling: 15.11.2021 to 17.11.2021)				Sardarshahar (Date of sampling: 06.03.2022)						
		SPS at Pratapgarh Road	SPS at Nathelav pond	STP Site	AEN (PHED Campus)	STP-1 (2.30 MLD) South Campus	STP-2 (3.40 MLD) North Campus	PHED Campuses-CWR (2400 KL) & PH at Hanumangarh Road	Zone -4, Sattu Colony	Sewer Laying	SPS (2.3 MLD) Gaushala Land	
1	pH(at 25°C)	7.19	7.27	7.07	7.16	7.82	8.15	8.38	8.41	8.23	8.14	6.5 – 8.5
2	Temperature	-	-	-	-	-	-	-	-	-		
3	Turbidity	-	-	-	-	-	-	-	-	-		5-10
4	Conductivity	-	-	-	-	-	-	-	-	-		750 - 2000
5	Total Hardness	244	484	352	242	131.92	436.37	563.68	322.16	345.17	345.12	300-600
6	Calcium	-	-	-	-	-	-	-	-	-		75-200
7	Sodium	-	-	-	-	-	-	-	-	-		
8	Potassium	-	-	-	-	-	-	-	-	-		
9	Alkalinity	252	284	344	232	127.44	582.45	622.17	421.47	494.26	474.6	200-600
10	Chloride	32	106	54	48	44.36	399.75	418.05	244.68	342.64	374.34	250-1000
11	Magnesium	-	-	-	-	-	-	-	-	-		30-100
12	TDS	442	756	634	498	235.0	1590.0	1642.0	862.0	1170.0	1060	500-2000
13	TSS					-	-	-	-	-		
14	Sulphate	12.9	68	32	17.8	25.62	256.34	255.02	142.34	146.12	174.86	200-400
15	Phosphate	0.26	0.62	0.24	0.44	BDL	0.55	0.54	0.42	0.28	0.54	
16	Fluoride	0.98	0.98	0.92	0.84	0.45	0.86	0.82	0.66	0.66	0.72	1-1.5
17	Oil & Grease	-	-	-	-	-	-	-	-	-		
18	DO	5.3	5.1	5.4	5.6	5.0	4.8	4.8	4.9	4.8	5.2	
19	COD	-	-	-	-	-	-	-	-	-	-	
20	BOD	-	-	-	-	-	-	-	-	-		45-100

S. No	Parameter	RSTDIP/BNS/04				RSTDIP/SRD/01						Drinking water standards (desirable – permissible value)
		Banswara (Date of sampling: 15.11.2021 to 17.11.2021)				Sardarshahar (Date of sampling: 06.03.2022)						
		SPS at Pratapgarh Road	SPS at Nathelav pond	STP Site	AEN (PHED Campus)	STP-1 (2.30 MLD) South Campus	STP-2 (3.40 MLD) North Campus	PHED Campuses-CWR (2400 KL) & PH at Hanumanagarh Road	Zone -4, Sattu Colony	Sewer Laying	SPS (2.3 MLD) Gaushala Land	
21	Nitrate	6.12	6.10	18.4	5.84	15.36	116.24	110.41	51.43	53.43	53.10	Nil
22	Nitrite					-	-	-	-	-		0.3-1.0
23	Iron	0.22	0.30	0.18	0.22	0.08	0.18	0.22	0.18	0.16	0.19	5-15
24	Total Chromium	-	-	-	-	BDL	BDL	BDL	BDL	BDL	BDL	0.05-1.5
25	Zinc	0.20	0.22	0.26	0.18	BDL	0.62	0.54	0.48	0.36	0.63	0.1-0.3
26	Copper	0.08	0.08	0.08	0.10	BDL	BDL	BDL	BDL	BDL	BDL	0.01-0.05
27	Manganese	0.06	0.10	0.10	0.08	BDL	BDL	BDL	BDL	BDL	BDL	0.01-0.05
28	Lead	-	-	-	-	BDL	BDL	BDL	BDL	BDL	BDL	10
29	Arsenic	-	-	-	-	BDL	BDL	BDL	BDL	BDL	BDL	5-15

Ground water Quality Monitoring Results (Continued—5)

S. No	Parameter	RSTDIP/RTG-FTP-LXG/01										RSTDIP/MDW/03			Drinking water standards (desirable – permissible value)
		Ratangarh (Date of sampling: 16.03.2022 to 24.03.2022)			Laxmangarh Date of Sampling: 01.10.2021		Fatehpur (Date of sampling (04.11.2021 to 10.11.2021)					Mandawa Town Date os sampling: 03.09.21			
		STP 3.8 MLD	Labour Camp	SPS 4.6 MLD	PHED AEN Campus	Bad Ke Balaji Head works	STP 4.3 MLD Near Naribar i Village Road	SPS 3.8 MLD Dhpli Sat templ e	Aqsa masjid (Zone 2)	SPS 1.10 MLD Near Railaw ay Underp ass	Zone – Salasar Road	STP- 1	CWR site-1	SPS-1	
1	pH(at 25°C)	7.94	8.01	7.63	7.61	7.49	7.62	7.43	7.68	7.41	7.85	8.12	8.19	7.56	6.5 – 8.5
2	Temperature	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	Turbidity	<01	<01	<01	-	-	-	-	-	-	-	-	-	-	5-10
4	Conductivity	-	-	-	-	-	-	-	-	-	-	-	-	-	750 - 2000
5	Total Hardness	234.23	190.56	174.68	157.89	77.60	161.58	161.20	42.28	132	106.21	158.4	182.86	182.86	300-600
6	Calcium	49.33	42.96	39.78-	-	-	-	-	-	-	-	-	-	-	75-200
7	Sodium	181.36	329.37	185.19	-	-	-	-	-	-	-	-	-	-	
8	Potassium	5.62	10.29	6.45	-	-	-	-	-	-	-	-	-	-	
9	Alkalinity	235	220	225	358.50	120.28	804.23	738.26	776.42	804.0	784.38	469.9	799.8	768.3	200-600
10	Chloride	151.95	145.98	149.00	178.32	29.72	246.31	245.37	25.14	142.54	132.55	13.87	313.93	317.65	250-1000
11	Magnesium	BDL	BDL	BDL	-	-	-	-	-	-	-	-	-	-	30-100
12	TDS	816.0	1148	783	1120	272.0	1230.00	1495.00	1108.0	1020.0	1060.0	500	1462.0	1467.0	500-2000
13	TSS	2.8	1.6	1.4	-	-	-	-	-	-	-	-	-	-	
14	Sulphate	53.81	81.52	63.55	-	-	64.29	94.76	8.21	76.31	58.12	38.10	94.74	95.03	200-400
15	Phosphate	-	-	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.25	0.42	0.40	
16	Fluoride	0.4	0.92	0.41	1.0	0.30	1.20	1.32	8.26	1.20	1.10	0.46	0.73	0.74	1-1.5
17	Oil & Grease	-	-	-	-	-	-	-	-	-	-				
18	DO	-	-	-	4.7	4.5	4.6	-	4.8	5.0	5.6	6.1	5.7	5.8	
19	Copper as Cu	BDL	BDL	BDL	-	-	-	-	-	-		-	-	-	

S. No	Parameter	RSTDIP/RTG-FTP-LXG/01										RSTDIP/MDW/03			Drinking water standards (desirable – permissible value)
		Ratangarh (Date of sampling: 16.03.2022 to 24.03.2022)			Laxmangarh Date of Sampling: 01.10.2021		Fatehpur (Date of sampling (04.11.2021 to 10.11.2021)					Mandawa Town Date os sampling: 03.09.21			
		STP 3.8 MLD	Labour Camp	SPS 4.6 MLD	PHED AEN Campus	Bad Ke Balaji Head works	STP 4.3 MLD Near Naribar i Village Road	SPS 3.8 MLD Dhpli Sat temple	Aqsa masjid (Zone 2)	SPS 1.10 MLD Near Railaw ay Underpass	Zone – Salasar Road	STP-1	CWR site-1	SPS-1	
20	Phenolic Compound	-	-	-	-	-	-	-	-	-		-	-	-	45-100
21	Nitrate	11.65	16.37	12.07	18.20	8.10	26.17	22.14	18.0	16.43	17.36	19.02	31.09	28.83	Nil
22	Nitrite	-	-	-	-	-	-	-	-	-		-	-	-	0.3-1.0
23	Iron	0.14	0.22	0.10	.12	BDL	BDL	BDL	BDL	BDL	BDL	0.13	0.18	0.17	
24	Total Chromium	-	-	-	BDL	BDL	-	-	-	-		-	-	-	5-15
25	Zinc	BDL	BDL	BDL	BDL	BDL	-	-	-	-		-	-	-	0.05-1.5
26	Cadmium as Cd	BDL	BDL	BDL	BDL	BDL	-	-	-	-		-	-	-	0.1-0.3
27	Manganese	BDL	BDL	BDL	BDL	BDL	-	-	-	-		-	-	-	0.01-0.05
28	Lead	BDL	BDL	BDL	BDL	BDL	-	-	-	-		-	-	-	0.01-0.05
29	Arsenic	BDL	BDL	BDL	BDL	BDL	-	-	-	-					10

Soil Quality Results

Soil Quality Results (Continued---1)

S. No	Parameter	Unit	RSTDIP/KTR/03													
			Khetri Town Date of Sampling: 25.10.2021							Khetri Town Date of Sampling: 22.02.2022						
			PHED office Old	Ajeet. Govt Hospital	UP Kosha dhikari Office	JEN Staff Colony	Jai Singh Govt. School	STP Proposed Site	Sidhi Vinayak Temple	PHED office Old	Ajeet. Govt Hospital	UP Kosha dhikari Office	JEN Staff Colony	Jai Singh Govt. School	STP Proposed Site	Sidhi Vinayak Temple
1	pH	-	7.51	7.38	7.69	7.70	7.79	7.71	7.62	7.60	7.45	7.65	7.10	7.70	7.68	7.56
2	Electrical Conductivity (at 25°C)	mS/cm	0.124	0.134	0.138	0.124	0.142	0.146	0.128	0.120	0.132	0.140	0.119	0.139	0.140	0.125
3	Calcium Carbonate	mg/Kg	10.26	12.25	15.35	13.42	11.64	11.87	12.26	11.10	12.05	14.24	13.90	12.60	13.22	15.10
4	Sodium (as Na)	mg/Kg	3.3	2.6	3.5	2.9	3.5	3.2	3.7	3.7	3.1	3.7	3.2	3.0	3.4	4.2
5	Potassium (as K)	Kg/hect.	3.7	3.0	3.7	3.3	3.8	3.6	3.9	4.2	3.9	0.25	0.29	0.22	3.9	4.6
6	Organic Carbon	%	0.22	0.24	0.26	0.28	0.26	0.20	0.24	0.26	0.28	4.2	3.7	3.4	0.24	0.27
7	Magnesium (as Mg)	mg/Kg	38.24	41.16	38.67	40.34	42.65	45.16	46.14	35.45	39.42	38.22	42.12	43.10	42.33	45.95
8	Total Kjeldhal Nitrogen (as TKN)	mg/Kg	0.02	0.03	0.01	0.02	0.04	0.02	0.03	0.03	0.03	0.02	0.03	0.03	0.02	0.03
9	Bulk Density	gm/cc	1.63	1.58	1.61	1.56	1.67	1.66	1.64	1.05	1.20	8.55	1.50	1.60	1.58	1.70
10	Moisture Content	%	0.34	0.36	0.26	0.32	0.30	0.32	0.30	0.30	0.32	0.25	0.30	0.28	0.29	0.26
11	Total Phosphorous (P)	Kg/hect.	11.14	10.6	12.1	15.2	12.3	12.3	13.2	11.2	12.0	12.6	14.1	13.1	11.9	14.3
12	Soil texture	-	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy
13	Permeability	Cm/S	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Soil Quality Results (Continued---2)

S. No	Parameter	Unit	RSTDIP/DID/01			RSTDIP/MKN/01			RSTDIP/LDN/01		
			Didwana Town: 27.01.2022			Makrana Town Date of Sampling: 25.01.2022 to 27.01.2022			Ladnu Town Date of Sampling: 29.01.2022 to 30.01.2022		
			STP Site	SPS-1	SPS-1, Near Temple	Pipe Laying Site,	STP 1	SPS-1 (Jhalara Road)	Pipe Laying	STP-1, Ladnu	STP-2
1	pH	-	8.46	9.37	7.72	7.96	7.56	7.58	8.90	7.93	7.90
2	Electrical Conductivity (at 25°C)	µs/cm	1602.0	3780.0	110.0	108.0	73.0	334.0	318.0	142.0	104.0
3	Calcium (as CaO)	mg/Kg	7050	5000	7750	2600	1750	3900	7600	6950	6200
4	Sodium (as Na)	mg/Kg	77.0	24.0	29.0	116.0	82.0	73.0	44.0	70.0	38.0
5	Potassium (as K)	Kg/hect.	67.0	352.0	411.0	107.0	52.0	336.0	105.0	71.0	59.0
6	Organic Carbon	%	0.26	0.36	0.16	0.40	0.24	1.2	0.28	0.19	0.53
7	Magnesium (as Mg)	mg/Kg	270.0	990.0	180.0	180.0	150.0	420	390.0	310	240.0
8	Total Nitrogen (as N)	mg/Kg	101.0	123.0	84.0	174.0	112.0	414.0	134.0	90.0	95.0
9	Bulk Density	gm/cc									
10	Moisture Content	%	26.0	10.0	66.0	22	24.0	18.0	19.0	14.0	16.0
11	Phosphate (as PO4)	mg/kg.	31.0	44.0	9.2	18.0	11.0	12.0	15.0	98.0	10.0
12	Soil texture	-	Sand	Sand	Sand	Loamy Sand	Sand	Loam	Sand	Sand	Sand
	Sand	%	86.0	92.0	90.0	83.0	85.0	44.0	88.0	94.0	89.0
	Silt	%	8.0	3.0	6.0	9.0	9.0	32.0	7.0	4.0	5.0
	Clay	%	6.0	5.0	4.0	8.0	6.0	24.0	5.0	2.0	6.0
13	Oil & Grease	Mg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
14	Permeability	cm/S	4.6	4.9	4.8	4.1	4.3	1.4	4.8	5.0	4.7

Soil Quality Results (Continued---3)

S. No	Parameter	Unit	RSTDIP/KTR/03			RSTDIP/MDW/03		
			Kuchaman Town: 01.01.2022			Mandawa Town		
			STP Site	Old near office	CWR PHED	Store Area	SPS-1	CWR -1
1	pH	-	9.43	8.87	7.97	8.25	8.12	8.07
2	Electrical Conductivity (at 25°C)	µs/cm	1632.0	104.0	106.0	0.522	0.562 (mS/cm)	0.428 (mS/cm)
3	Calcium (as CaO)	mg/Kg	9950	1300.0	900.0	28.28	45.56	31.42
4	Sodium (as Na)	mg/Kg	35.0	7.2	2.1	29.92	30.92	38.90
5	Potassium (as K)	Kg/hec.	833.0	216.0	188.0	249.61	290.40	82.67
6	Organic Carbon	%	0.81	0.31	0.20	0.75	0.77	0.67
7	Magnesium (as Mg)	mg/Kg	1500.0	60.0	30.0	11.44	11.44	9.53
8	Total Nitrogen (as N)	mg/Kg	302.0	292.0	218.0	217.68 (Kg/hec)	224.08 (Kg/hec)	204.87 (Kg/hec)
9	Bulk Density	gm/cc						
10	Moisture Content	%	37.0	11.0	14.0	2.78	5.54	8.65
11	Phosphate (as PO4)	mg/kg.	4478.0	192.0	134.0	42.16 (Kg/hec)	44.36 (Kg/hec)	45.67 (Kg/hec)
12	Soil texture	-	Clay	Sand	Sand	Sandy loam	Sandy loam	
	Sand	%	35.0	81.0	83.0			
	Silt	%	24.0	9.0	10.0			
	Clay	%	41.0	10.0	7.0			
13	Oil & Grease	Mg/kg	<5.0	<5.0	<5.0	BDL	BDL	BDL
14	Permeability	cm/S	1.2	4.6	4.8	0.001478	0.000984	0.001187

Soil Quality Results (Continued---4)

S. No	Parameter	Unit	RSTDIP/RTG/01				RSTDIP/PRT/01						RSTDIP/SRD/01					
			Ratangarh (Date of sampling: 16.03.2022 to 24.03.2022)				Pratapgarh (Date of sampling (17.02.2022)			Pratapgarh (Date of sampling (22.10.2021)			Sardarshahar (Date of sampling: 06.03.2022)					
			SPS 3.8 MLD Ratangarh	STP 3.8 MLD Ratangarh	Labour Camp	SPS 4.6 MLD	Gopalgarh	Bhatpura Darwaza	Sidhivinayak nagar	STP	MWP	SPS	STP-1 (2.30 MLD)	STP-2 (3.40 MLD)	PHED Campus	Site Zone - 2 (HDP E Layin g)	Sewer Layin g	SPS (2.3 MLD) Gaushala Land
1	pH	-	7.93	7.46	8.10	8.17	7.32	7.53	7.58	7.68	8.02	7.82	8.41	8.23	8.56	8.27	8.49	8.26
2	Electrical Conductivity (at 25°C)	mS/cm	0.24	0.25	0.32	0.30	548.23	650.22	560.10	572.30	657.30	628.73	0.410	0.350	0.437	0.236	0.486	0.341
3	Calcium (as Ca)	mg/Kg	837.62	933.15	973.36	980.55	12.49	9.71	14.11	7.50	11.45	13.67	130.45	153.45	142.45	158.45	138.65	130.45
4	Sodium (as Na)	mg/Kg	83.76	81.75	110.68	98.74	85.74	102.15	91.05	72.56	84.90	91.56	138.76	143.48	145.72	167.33	165.36	134.78
5	Potassium (as K)	Kg/hect.	67.29	72.37	88.24	102.43	55.19	69.07	63.29	47.42	58.76	63.70	144.17	131.56	143.78	156.12	158.71	131.03
6	Organic Carbon	%	0.61	0.54	0.63	0.61	0.80	0.68	0.75	0.62	0.68	0.76	0.48	0.55	0.58	0.57	0.59	0.50
7	Magnesium (as Mg)	mg/Kg	410.13	424.37	431.10	447.46	5.24	6.20	7.56	4.80	9.42	10.64	114.69	99.67	116.17	104.48	126.77	99.73
8	Total Kjeldhal Nitrogen (as TKN)	mg/Kg	102.40	86.71	110.69	135.15	219.69	271.23	230.84	196.70	236.70	314.78	378.34	358.45	371.53	336.48	392.86	346.44
9	Permeability	Cm/sec	11.60	12.90	15.30	11.72	15.30	12.90	11.60	11.40	8.50	10.00	BDL	BDL	BDL	BDL	BDL	BDL
10	Moisture Content	%	0.95	0.88	0.80	0.79	13.09	15.04	12.25	12.90	13.80	14.00	7.12	3.06	7.12	4.37	4.52	3.95
11	Phosphate (as PO ₄)	Kg/hect.	-	-	-	-	130.11	159.82	144.51	124.50	76.80	82.45	35.75	29.61	26.36	30.61	32.14	34.64
12	Soil texture	-	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Clay Loam	Sandy Loam	Sandy Loam
	Sand		76.69	81.68	83.74	79.60	74.69*	72.50	71.12	69.30	71.5	68.5	-	-	-	-	-	

S. No	Parameter	Unit	RSTDIP/RTG/01				RSTDIP/PRT/01						RSTDIP/SRD/01					
			Ratangarh (Date of sampling: 16.03.2022 to 24.03.2022)				Pratapgarh (Date of sampling (17.02.2022)			Pratapgarh (Date of sampling (22.10.2021)			Sardarshahar (Date of sampling: 06.03.2022)					
			SPS 3.8 MLD Ratangarh	STP 3.8 MLD Ratangarh	Labour Camp	SPS 4.6 MLD	Gopalgarh	Bhatpura Darwaza	Sidhivinayak nagar	STP	MWP	SPS	STP-1 (2.30 MLD)	STP-2 (3.40 MLD)	PHED Campus	Site Zone - 2 (HDP E Layin g)	Sewer Layin g	SPS (2.3 MLD) Gaushala Land
	Silt		11.83	8.65	9.07	12.79	7.90	8.41	10.28	8.50	11.20	9.20	-	-	-	-	-	
	Clay		11.48	9.67	7.19	7.61	17.41	19.09	18.60	22.2	17.30	22.30	-	-	-	-	-	
13	Oil and grease	Mg/kg	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12.86	15.18	14.63	12.84	12.08	13.28

Soil Quality Results (Continued---5)

S. No	Parameter	Unit	RSTDIP/FTP-LXG/01						
			Fatehpur (Date of sampling (04.11.2021 to 10.11.2021)					Laxmangarh (Date of sampling: 04.11.2021 to 10.11.2021)	
			STP 4.3 MLD Near Naribari Village Road	SPS 3.8 MLD Dhpli Sat temple	Aqsa masjid (Zone 2)	1.10 MLD Near Railway Underpass	Zone – Salasar Road	PHED A. En Campus	Bad ke Balaji PHED campus
1	pH	-	8.31	8.12	8.41	8.04	8.12	7.86	7.65
2	Electrical Conductivity (at 25°C)	mS/cm	0.265	0.260	0.276	0.257	0.283	0.335	0.268
3	Calcium (as Ca)	mg/Kg	118.8	120.2	128.4	110.6	131.4	136.28	158.24
4	Sodium (as Na)	mg/Kg	36.4	39.3	41.9	34.1	39.0	30	54.31

S. No	Parameter	Unit	RSTDIP/FTP-LXG/01						
			Fatehpur (Date of sampling 04.11.2021 to 10.11.2021)					Laxmangarh (Date of sampling: 04.11.2021 to 10.11.2021)	
			STP 4.3 MLD Near Naribari Village Road	SPS 3.8 MLD Dhpli Sat temple	Aqsa masjid (Zone 2)	1.10 MLD Near Railway Underpass	Zone – Salasar Road	PHED A. En Campus	Bad ke Balaji PHED campus
5	Potassium (as K)	Kg/hect.	93.7	96.1	95.1	90.2	96.3	124.150	44
6	Organic Carbon	%	0.42	0.44	0.20	0.39	0.44	0.84	0.38
7	Magnesium (as Mg)	mg/Kg	56.9	58.7	53.4	54.3	58.1	86.27	38.15
8	Total Kjeldhal Nitrogen (as TKN)	mg/Kg	154.6	156.1	150.7	150.0	158.7	284.16	146.38
9	Bulk Density	gm/cc	1.65	1.60	1.63	1.58	1.64	-	-
10	Moisture Content	%	6.8	6.4	6.2	6.1	6.3	0.31	0.46
11	Phosphate (as PO ₄)	Kg/hect.	35.3	35.6	37.1	37.8	37.6	48.31	41
12	Soil texture	-	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy Loam	Sandy Loam
13	Permeability	Cm/S	1.95*10.4	1.91*10.5	1.90*10.3	1.92*10.3	1.89*10.5	1.72*10.3	1.88*10.4

RUJDIP

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.: 0141-2721964, Fax no.: 0141-2721919,
 email: mailruidp@gmail.com, mail.ruidp@rajasthan.gov.in web site: -www.ruidp.rajasthan.gov.in/ruidp

No. FJ (301) (60)/RUIDP/PMU/PH-VZ/ADG S. Safeguard /Gen adm./2020-21/1364 Date: 10/12/2020

Suprintending Engineer/Executive Engineer
 PIU- Abu Road, Sushil, Rafangarh,
 Fatehpur, Laxmangarh, Sardarsaheb,
 Kuchaman, Lathu, Mokrana, Didwana,
 Khetri, Mandawa, Pratappgarh 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 EARM/RF of RSTQSP.

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 EARM/RF which is summarized as under (for ready reference)

Methodology of multi-tier GRM	Responsibility/Action to be taken	Time Frame	Record Keeping
<u>1st level</u> 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 form public forwarded to head of PIU or Safeguard and Safety Officer (SSO) for resolve in time and provide summarized information as and when required. The grievance register will be endorsed by all field agencies involved in implementation of EMP and

SEP 28/11/20

Project Management Unit - Capacity Building Consultancy (PMU-CBC) RSTQSP (RUIDP-V)	
Received by 21/11/2020	Forward No 1500
TL	527

Methodology of multi-tier GRM	Responsibility/Action to be taken	Time Frame	Record Keeping
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.	RP. Environmental and Social Safeguards Personal of CMSC will keep all the records referred to zonal PIU and after compilation, 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 (APD-PMU).	PMU will resolve the grievance within 15 days of receipt of grievance.	Safeguard Support of PMCBC will keep all the records referred to PMU.
4th level: Grievances not redressed through this process within/at the project level within stipulated time period will be referred to the CLC/grievance redress committee (GRC).	Zonal PIU will inform the CLC regarding any grievances required to be resolved urgently.	The GRC will resolve the grievance within 15 days of receiving the complaint.	Environmental and Social Safeguards Personal of CMSC will keep all the records.

Please note that an aggrieved person shall have access to the country's legal system at any stage, and accessing the country's legal system can run parallel to accessing the GRM and is not dependent on the negative outcome of the GRM.

PIU Safeguard and Safety Officer (SSO) will monitor the entire process and all decisions taken by the PIU, zonal officers, PMU and GRC and will be communicated to the APs by Safeguard Support of CMSC.

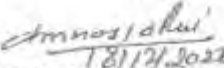
It is also directed that names and contact number of the concerned Safeguard and Safety Officer (SSO) of PIU, contractors, safeguard support staff of CMSC will be posted at all construction sites at visible locations.

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


Chief Engineer, RUIDP

No. F3 (301) (BD)/RUIDP/PMU/PH-IV Social Safeguard/General Adm./2020-21/ Date: 18/12/2020
Copy to the following for information and necessary action please:- 18368-76

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. Mandawaria)
PO (Co-ord. & Social)

RUIDP Phase-IV: Consultants

Page 2 of 2

APPENDIX 12: ACCIDENT, INCIDENT, NEAR MISS AND FIRST AID CASES IN PROJECT TOWNS DURING October 2021 to March 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
October 2021	NIL	NIL	NIL	NIL
November 2021	NIL	NIL	NIL	NIL
December 2021	NIL	NIL	NIL	01
January 2022	NIL	NIL	NIL	NIL
February 2022	NIL	NIL	NIL	NIL
March 2022	NIL	NIL	01	NIL

Details of Accidents-

S.No.	Nature of accident	Date/time and place	Description/cause	Action taken
1.	NIL	NIL	NIL	NIL

Details of Incident cases-

S.No.	Nature of Incident	Date/time and place	Description/cause	Action taken
1.	NIL	NIL	NIL	NIL

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	NIL	NIL	NIL	NIL
2.	March 2022	01	Material Handling	Fit Sling provided & Ensure Safe methodology.

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	December 2021	01	Minor, 01	First Aid treatment provided.

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
October 2021	0	0	0	0
November 2021	0	0	0	0
December 2021	0	0	0	0
January 2022	0	0	0	0
February 2022	0	0	1	0
March 2022	0	0	1	0

Details of Accidents-

S.No.	Nature of accident	Date/time and place	Description/cause	Action taken
1.	0	0	0	0

Details of Incident cases-

S.No.	Nature of Incident	Date/time and place	Description/cause	Action taken
1.	0	0	0	0

Details of Near miss cases-

S.No.	Month	No of near miss cases	Nature of near miss and their number	Action taken
1.	February 2022	1	Soak pit collapsed after completion of our work while tanker was passing over it.	Repair work of soak pit done on same day.
2.	March 2022	1	Soil collapsed in 1.8 m ramp. Work without supervision at night by Sub contractor without intimating L&T staff or supervisor.	Warning letter issued to sub-contractor, provided shoring box and ensured 100% supervision.

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	September	1	Leg injury	PPEs provided
2.	0	0	0	0
3.	0	0	0	0

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
October 2021	0	0	0	0
November 2021	0	0	0	0
December 2021	0	0	0	0
January 2022	0	0	0	0
February 2022	0	0	1	0
March 2022	0	0	0	0

Details of Accidents-

S.No.	Nature of accident	Date/time and place	Description/cause	Action taken
1.	0	0	0	0

Details of Incident cases-

S.No.	Nature of Incident	Date/time and place	Description/cause	Action taken
1.	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.	February	1	While reversing Ajax fori after dumping CC, back tyre came in contact with electrical post.	Main power switched off and new post placed on the same day.

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	September	1	Leg injury	PPEs provided
2.	0	0	0	0
3.	0	0	0	0

Town: Khetri

Project: Construction of Works of Water Supply Production and Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply and Providing Sewer Network with House connections, and construction of Sewage Treatment Plant and all allied Works and operation services of the entire system for 10 years at Khetri (Jhunjhunu)" RSTDIP/KTR/03

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
October 2021	-	-	-	-
November 2021	-	-	-	-
December 2021	-	-	-	-
January 2022	-	-	-	-
February 2022	-	-	1	-
March 2022	-	-	2	-

Details of Accidents-

S.No.	Nature of accident	Date/time and place	Description/cause	Action taken
1.	-	-	-	-
2.	-	-	-	-
3.	-	-	-	-

Details of Incident cases-

S.No.	Nature of Incident	Date/time and place	Description/cause	Action taken
1.	-	-	-	-
2.	-	-	-	-
3.	-	-	-	-

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	Jan	-	-	-
2.	Feb	1	Got out of hand while using DWC pipe	Instruct to labour and conduct safety training for material handling.
3.	March	2	Fall of the barricade	Instruct to labour and conduct safety training for material handling.

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	-	-	-	-

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

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
Oct. to Dec. 2021	Nil	Nil	Nil	Nil
Jan to March 2022	Nil	Nil	1	2

Details of Accidents-

S.No.	Nature of accident	Date/time and place	Description/cause	Action taken
1.	Nil	Nil	Nil	Nil
2.	Nil	Nil	Nil	Nil
3.	Nil	Nil	Nil	Nil

Details of Incident cases-

S.No.	Nature of Incident	Date/time and place	Description/cause	Action taken
1.	Nil	Nil	Nil	Nil
2.	Nil	Nil	Nil	Nil
3.	Nil	Nil	Nil	Nil

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	Jan 2022	1	Hydra got stuck on pit while marching towards the site (off site) nobody got injured	Hydra removed from the pit and repaired & Cleared the pit and given training to site engineer

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	Jan 2022	1	Right foot top surface(instep) got injured that happened at his residence	Given him proper dressing and given him rest
2.	Feb 2022	1	Foot Allergy wound	Given him proper dressing

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
October 2021	0	0	0	0
November 2021	0	0	0	0
December 2021	0	0	02	01
January 2022	0	0	01	02
February 2022	0	0	02	02
March 2022	0	0	02	01

Details of Accidents-

S.No.	Nature of accident	Date/time and place	Description/cause	Action taken
1.	-	-	-	-
2.	-	-	-	-
3.	-	-	-	-

Details of Incident cases-

S.No.	Nature of Incident	Date/time and place	Description/cause	Action taken
1.	-	-	-	-
2.	-	-	-	-
3.	-	-	-	-

Details of Near-miss cases-

S.No.	Month	Number of near-miss cases	Nature of near-miss and their number	Action taken
1.	December 2021	02	Minor	Mr. Manoj Kumar
2.	January 2022	01	Minor	Mr. Manoj Kumar
3.	February 2022	02	Minor	Mr. Manoj Kumar
4.	March 2022	02	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
1.	December 2021	01	Minor	Mr. Manoj Kumar
2.	January 2022	02	Minor	Mr. Manoj Kumar
3.	February 2022	02	Minor	Mr. Manoj Kumar
4.	March 2022	01	Minor	Mr. Manoj Kumar

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
Oct 2021	0	0	0	0
Nov 2021	0	0	1	1
Dec 2021	0	0	0	0
Jan 2022	0	0	0	0
Feb 2022	0	0	0	0
March 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.	Nov 2021	01	Underground cable damage	Using cable detector and consulting with electrical board

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	Nov 2021	01	Bruises	Medical treatment given

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
October 2021	0	0	0	0
November 2021	0	0	0	0
December 2021	0	0	0	0
January 2022	0	0	0	0
February 2022	0	0	0	0
March 2022	0	0	0	0

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
October 2021	0	0	0	0
November 2021	0	0	0	0
December 2021	0	0	0	0
January 2022	0	0	0	0
February 2022	0	0	0	0
March 2022	0	0	0	0

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
October 2021	0	0	0	0
November 2021	0	0	0	0
December 2021	0	0	0	0
January 2022	0	0	0	0
February 2022	0	0	0	0
March 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
October 2021	0	0	0	0
November 2021	0	0	0	0
December 2021	0	0	0	0
January 2022	0	0	0	0
February 2022	0	0	0	0
March 2022	0	0	0	0

Town: Laxmangarh**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 01 Oct 2021 to March 2022**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2021	0	0	0	0
November 2021	0	0	0	0
December 2021	0	0	0	0
January 2022	0	0	0	0
February 2022	0	0	0	0
March 2022	0	0	0	0

Town: Pratapgarh**Contractor: Larsen & Toubro Construction Limited (L&T)****Duration: 01 Oct 2021 to March 2022**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2021	0	0	0	0
November 2021	0	0	0	0
December 2021	0	0	0	0
January 2022	0	0	0	0
February 2022	0	0	0	0
March 2022	0	0	0	0

Town: Banswara**Contractor: BIPL-SC-HP Joint Venture****Duration: 01 Oct 2021 to March 2022**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2021	0	0	0	0
November 2021	0	0	0	0
December 2021	0	0	0	0
January 2022	0	0	0	0
February 2022	0	0	0	0
March 2022	0	0	0	0

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