

Environmental Monitoring Report

Project Number: 42267-031

Semestral Report: April 2021 – September 2021

February 2022

India: Rajasthan Secondary Towns Development Sector Project

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

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Asian Development Bank



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No. F3 (301)(72)/RUIDP/PMU/Env/ 12575

Date: 4.0∯2022

Country Director, India Resident Mission, Asian Development Bank, 4, San Martin Marg, Chanakyapuri, New Delhi- 110021

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Sub: Submission of Updated Semi-annual Environmental Monitoring Report for the period April 2021 to September 2021 for RUIDP Phase-IV (RSTDSP-Loan no. 3972-IND)

Ref: This office letter no. F3(301)(72)/RUIDP/PMU/Env/9710 dtd. 07.12.2021

Dear Sir.

In the matter of above cited subject, we are submitting herewith Updated Semi-annual Environmental Monitoring Report (SEMR) for the period of April 2021 to September 2021 for Rajasthan Secondary Towns Development Sector Project (RSTDSP) for your perusal and approval.

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

Enclosure - Soft Copies (M.S. Word and pdf) of SEMR (April-September 2021)

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

No. F3 (301)(72)/RUIDP/PMU/Env/ /257-6

Date: 4 .0 2.2022

Copy to following for information and necessary action-

1. Mr. Bhavesh Kumar, Project Officer, INRM, Asian Development Bank, New Delhi

(Praveen Ankodia) Deputy Project Director (T)

Semi-Annual Environmental Monitoring Report

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

India: Rajasthan Secondary Towns Development Sector Project (RSTDSP)

Implementation of Environmental Management and Monitoring Plan

Reporting Period: April 2021 to September 2021

Rajasthan Urban Drinking Water, Sewerage and Infrastructure Corporation Limited- 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 under-privileged improved. The policy-based loan will provide financial support to the state government to implement reforms and the project loan will introduce innovations in water supply and wastewater management, such as continuous pressurised water supply, and long-term O&M (10 years) embedded construction contracts for nonrevenue water (NRW) reduction and sustainability of operations, latest standards of treatment of waste water and reuse of treated effluent etc.
- 2. The desired output of this sector project are: 1) Water supply infrastructure in project towns improved with climate-resilient and inclusive features. By 2027, 2) Sanitation systems in project towns improved with climate-resilient, cost-effective and inclusive features.² By 2027, 3) Institutional and human capacities strengthened for service improvements, gender equality and sustainability.
- 3. As per preliminary examination and scope of works impact assessment for all the subprojects has been done and no significant impacts are envisaged as per ADB SPS 2009 and therefore all the subprojects under RSTDSP are categorized in Environmental Category B and Initial Environmental Examinations (IEEs) are prepared for all the subprojects accordingly. Environmental management and monitoring plan has been prepared for all the sub projects and included in respective draft IEEs and attached with bid documents of the contracts. Draft IEEs have been updated as per change in scope of works or change in locations; and submitted to ADB for approval.

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

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

- 4. This Semi-Annual Environmental Monitoring Report for the period of April to September 2021; analyses the project performance in respect to environmental safeguards and documents/monitors compliance status with National/ State/ Local Statutory Environmental Requirements along with compliance to approved IEE and EMPs as per ADB SPS 2009.
- 5. Up to September 2021, 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 13 project towns excluding Ladnu town 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 10 towns i.e. Ratangarh, Sardarshahar, Fatehpur, Laxmangarh, Abu Road, Sirohi, Pratapgarh, Kuchaman, Didwana, Makrana towns have been approved by ADB and uploaded on web portals of ADB and RUDSICO-EAP. Updated IEEs of 3 project towns of Khetri, Mandawa and Banswra towns were submitted to ADB in September 2021, which were reviewed by ADB and comments were given which are under compliance by RUDSICO-EAP.
- 7. During this reporting period, orientations for environmental safeguard requirements were done in 7 towns (Banswara, Laxmangarh, Fatehpur, Kuchaman, Ladnu, Makrana and Didwana) by PMCBC/CMSC-1&2 Environmental Safeguard Specialists. 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 SEMPs 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 have been done in all towns, where construction works are started and it was verified that approved designs does not contain any additional areas or work components, as included in updated IEEs. Where ever project sites for Consumer Relations and Management Centres (CRMCs) are identified, impact assessments have been done and reported in respective towns' updated IEEs. Periodical monitoring is being conducted by environmental specialist/safeguard support of PMCBC and CMSCs through site visits which includes public consultations, consultations with labors and contractors' staff, documents verification and environmental monitoring for ambient air, ambient noise, water quality and soil quality analysis 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 September 2021, total 20 applications for CTEs were submitted out of which 18 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 design for upgradation/rehabilitation is not done for these STPs/WTPs, therefore consents cannot be applied.
- 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 (April 2021 to September 2021)

1. INTRODUCTION

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

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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.

designed for 24-hour supply and expected to provide 24-hour supply most of the time, except during prolonged dry spells; and GOR is continuously working to augment its water supply. Water safety plans will be implemented to ensure potable water at all times, including during intermittent supply. Distribution networks follow a district metered area approach allowing the network to be hydraulically isolated so water losses can be more easily identified and resolved and nonrevenue water (NRW) targets met; and so pressures can be managed for equitable distribution. All households will have a water meter allowing for volumetric billing. The water supply improvements are expected to benefit all, including the urban poor, by reducing water collection time from other sources, which may be costly or unhygienic; and by minimizing earning losses from missed work due to waterborne diseases.

Output 2: Sanitation system in at least 13 project towns developed or improved.

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

Output 3: Institutional and human capacities strengthened for sustainable service delivery, gender equality and improved public health. By 2027, the project will have strengthened the capacity and ensured readiness of project ULBs to manage water supply and/or sanitation services and recover O&M costs. The project will strengthen the skills of at least 500 staff and 500 elected representatives of 14 project ULBs in contract management to monitor contractor's performance and service levels; construct or improve an office space for new WSS divisions, and develop ULBs' standard operating procedures for O&M. A data platform with supervisory control and data acquisition (SCADA) and geographic information system (GIS) will be established in each of the 14

project ULBs to support decision-making and efficient service delivery. The project includes capacity strengthening of RUDSICO by making its financial management system certified by an accredited institution. To promote gender equity and community awareness, the project includes an internship program in RUDSICO so that at least 500 college-age women to gain professional experience in a technical field with broader objective.

- 4. **Environmental category of the sub-projects:** As per preliminary examination and scope of works; impact assessment for all the subprojects has been done and no major significant impacts are envisaged as per ADB SPS 2009 and therefore all the subprojects under RSTDSP are categorized in Environmental Category B and Initial Environmental Examinations (IEEs) are prepared for all the subprojects accordingly. As per national environmental categorization (EIA Notification 2006) none of the subproject activities comes under Category A or Category B, therefore Environmental Impact Assessment or Environmental Clearance is not required for any of the subprojects under RSTDSP.
- 5. Details of site personnel and/or consultants responsible for environmental management: Out of fourteen project towns (with 09 packages), contract for all 14 sub-projects are awarded and civil work are undergoing in seven 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
		MCBC 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 Mob9530014474
Dr. Priya Goyal	PMCBC, Jaipur	Safeguard Support- Environment, PMCBC	9549681594
	PIU Zonal Office	s- Jodhpur and Jaipur	
Dr. Mahavir Prasad Saini	CMSC-2 Jodhpur	Environmental Safeguard Professional, CMSC-2	Email: enviro.cmsc2@gmail.com Mob9509557249
Mr. Vardan Srivastava	CMSC-I, Jaipur	Environmental Safeguard Professional, CMSC-1	Email: srivastavavardan5@gmai l.com Mob7986939303
Mr. Mani Sharma	CMSC-1, Jaipur	Environmental Safeguard Support, CMSC-1	Mob- 9501290109
	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. Saurabh Tayal	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/Laxman garh/Sardarshahar/ Fatehpur	Safeguard Support Environment CMSC-2	8299562677
Ms. Deepali Pandey	Pratapgarh/Banswa ra	Safeguard Support Environment CMSC-2	7415323074

B. Contractors' EHS personals

S	Town	Name of EHS	Contract Details	Contractors' Firm								
No.		Engineer										
	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. Sachin Sharma	9587795895	Larsen & Toubro Ltd.								
6.	Sirohi	Mr. Satish Vaniya	9983304779	Larsen & Toubro Ltd.								
7.	Pratapgarh	Mr. Ashutosh Kumar	8861200971	Khiladi Infra Projects Ltd								
8.	Banswara	Mr. Heera babu	8849682604	BIPL-SC-HP Joint Venture								
		CMS	C-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	MrRobin Mapnani	9895978165	M/s Larsen & Toubro Ltd.								
12.	Makrana	Mr.Robin Mapnani	9895978165	M/s Larsen & Toubro Ltd.								
13.	Mandawa	Mr. Manoj Kumar	9785868515	M/s L N Agarwal								
		Joya										
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.

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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	Packag e No.	Name of Contractor	NTP Date	Contract Cost (INR)	Contract Cost (US\$)*	Description of works
1	Ratangarh		M/s Larsen & Toubro Limited	15.6.2020	182,44,31 ,237.00	240,11,1 08.26	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	RSTDIP / RTG- FTP- LXG/01	M/s Larsen & Toubro Limited	15.6.2020	49,45,94, 511.00	650,92,9 5.66	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	151,21,5 04.49	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	258,87,4 37.68	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		M/s Larsen & Toubro Limited	18.6.2020	263,77,98 ,830.00	345,87,8 23.18	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

S No.	Town	Packag e No.	Name of Contractor	NTP Date	Contract Cost (INR)	Contract Cost (US\$)*	Description of works
		RSTDIP /SHR- ABR/01					Sewage Treatment Plant and all allied works and operation services of the entire system for 10 years
6	Sirohi		M/s Larsen & Toubro Limited	18.6.2020	213,92,01 ,170.00	280,50,0 20.71	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	257,45,6 96.51	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	435,81,7 59.39	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	109,93,3 92.45	Construction of works of Water Supply Production and Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply

S No.	Town	Packag e No.	Name of Contractor	NTP Date	Contract Cost (INR)	Contract Cost (US\$)*	Description of works
							and Providing Sewer Network with House connections, and construction of Sewage Treatment Plant and all allied Works and operation services of the entire system for 10 years
10	Mandawa	RSTDIP /MDW/0 3	M/s Larsen & Toubro Limited,	08.03.2021	106,12,15 ,221.40	14,502,0 32.35	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	42,458,4 12.22	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	11,819,4 57.78	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

S No.	Town	Packag e No.	Name of Contractor	NTP Date	Contract Cost (INR)	Contract Cost (US\$)*	Description of works
							(Nagaur)
13	Makrana		M/s Larsen & Toubro Limited,	05.05.2021	142,98,18 ,867.00	19,336,7 71.12	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	23,586,9 94.33	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 and Didwana). Overall status of the project and work progress is given in following **Table 3 & 4** -

Table 3: Overall status of sub-projects (up to 30.09.2021)

S.	Sub-Project Towns		Status of		Progress		
No.	and Package Number	Design	Pre- Construction	Construction	Operation Phase	Type of Works*	of Works**
1	Laxmangarh- RSTDIP/RTG-FTP- LXG/01			V		Water Supply	55.38%
2	Ratangarh- RSTDIP/RTG-FTP- LXG/01			V		Sewerage System	22.64%
3	Fatehpur- RSTDIP/RTG-FTP- LXG/01			V		Sewerage System	48.95%
4	Sardarshahar- RSTDIP/SRD/01			√ 		Sewerage System, Water Supply & Rehabilitation	33.95%
5	Sirohi- RSTDIP/SHR- ABR/01			٨		Sewerage System, Water Supply & Rehabilitation	17.53%
6	Abu Road- RSTDIP/SHR- ABR/01			٧		Sewerage System, Water Supply & Rehabilitation	13.3%
7	Pratapgarh- RSTDIP/PRT/01			V		Sewerage System	7.21%
8	Banswara- RSTDIP/BNS/04			V		Sewerage System, Water Supply & Rehabilitation	5.22%
9	Khetri- RSTDIP/KTR/03			V		Sewerage System, Water Supply & Rehabilitation	11.76%
10	Mandawa- RSTDIP/MDW/03			V		Sewerage System, Water Supply & Rehabilitation	22.98%
11	Kuchaman- RSTDIP/KMN/02		V			Sewerage System, Water Supply & Rehabilitation	0.88%
12	Ladnu- RSTDIP/LDN-DID- MKN/01		V			Sewerage System	0.07%
13	Didwana- RSTDIP/LDN-DID- MKN/01		V			Sewerage System	NIL
14	Makrana RSTDIP/LDN-DID- MKN/01		V			Sewerage System	NIL

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

Table 4: Cumulative Progress of Works up to 30.09.2021

Town: Ratangarh

Contract description	Cumulative Progress of works up to 30.09.2021						
Package no -	Sewerage Work:						
RSTDIP/RTG-FTP-	Item	Scope	Progress				
LXG/01	STP (2 No.)	6.1 MLD at	011 11122 011 0211 100				
Mariles and described		Gaushala (6.75 %	completed, TEER-Raft				
Works under package-		physical progress)	concrete completed. Work				
Construction of Works of			stopped by High Court stay				
Water Supply Distribution		3.8 MLD Near NH-	order. Next hearing date				
Network Improvements with House service		11 (14.40 %	04.10.2021.				
connections for non		physical progress)	• 3.80 MLD STP – SBR Wall				
revenue water reduction;			A,B & C upto 1 st lift and A &				
Continuous pressurized			B wall upto 2 nd lift casting				
water supply and			completed. C Wall casting is in progress. Admin				
operation services of the			is in progress. Admin building raft & footing				
entire system for 10 years			casting and column work is				
at Laxmangarh (Sikar)			in progress. L & T is				
			instructed to increase the				
Name of Contractor- M/s-			manpower for speed up of				
Larsen& Toubro Limited			works.				
	SPS (2 No.)	3.8 MLD BSNL	3.8 MLD SPS, BSNL Office:				
Contract type- Design,		Office (15.56%	Upto 9 th lift completed and				
Build and Operate		physical progress)	steel cutting work is in				
Data of Start 22.06.2020			progress. L & T is instructed				
Date of Start- 22.06.2020		4.6 MLD near	to increase the labours for				
Cumulative Financial		Main Ginani (5.16	speed up of works.				
Progress- 25.67 %		% Physical	4.60 MLD SPS: Cutting edge				
1 10g1c33- 20.07 70		progress)	work done & 3 rd lift casting				
Cumulative Physical			completed. L & T is instructed				
Progress-22.64 %			to increase the manpower for speed up of works.				
	Lateral sewer (upto dia 300)	145.317 KM	 Supply: 93.50 Km 				
Stipulated Date of	Lateral cower (apto dia coo)	110.017 1401	• Laid:-60.282 Km				
completion of Design			 Hydro Testing: 43.785 Km 				
Build- 21.06.2023	Outfall RCC Pipe	1.82 KM	Supply: -Nil				
	- Canamir (CC) ips	1.02 1 (1)	• Laid: -Nil				
	PVC-U pipe(110 & 160 mm dia)	143 KM	• Supply: -35.576 km				
	· · · · · · · · · · · · · · · · ·		• Laid:-24.320 km				
	Manholes (All types)	10173 Nos	Installation: 2831 Nos				
	Inspection Chamber (A types)	14300 Nos	Supply: 3182 Nos				
			Installation:-2264 Nos				
	HDPE pipe (PE 100,PN 6)	11.72 KM	• Supply: 10.477 Km				
	Trenchless		• Laid: - 7.326 Km				
	D.I K-9 Pipes (Pumping Main)	3.50 KM	• Supply: - 2.80 Km				
			Laid: Nil				
	D.I K7 Pipes	3.50 KM	Supply: Nil				
	·		Laid: Nil				
	<u>.</u>						
	For Road Cutting & Restoration-						

Contract description	Cumulative Progress of works up to 30.09.2021						
	Road cutting	Road restoration	n Base	Road restoration Top Layer			
	 Kuccha: -5.901 Km CC-12.361 Km BT-34.321 Km Interlock -7.698 Km Total -60.282 km 	 Kuccha: -5.811 Km CC-11.914 Km BT-32.479 Km Interlock -6.519 Km Total – 56.724 km 		 Kuccha: -5.811 Km CC-11.279 Km BT-30.270 Km Interlock -6.229 Km Total -53.590 km 			
	Building and Miscellaneous work						
	Item Description	Scope of Work P		rogress made so far			
	CRMC Building	2 Nos. (Near Nagar Palika& Ginani)	completed wall is und slow due	(Nagar Palika): Plinth Beam I, columns and brickwork fo der construction. Work is very to insufficient labour. L & T is to speed up of works.			
			insufficien	Work not started due to t labour. L & T is instructed to rork immediately.			

Town: Laxmangarh

Package no - RSTDIP/RTG-FTP-LXG/01	Water Supply: Item CWR	Scope	
RSTDIP/RTG-FTP-LXG/01		Scope	
	CMD	ocope	Progress
Works under package-	CVVK	100 KL at AEn Campus	GA Drawing and structural drawing approved, vetting from IIT/NIT is
Construction of Works of Providing Sewer Network with House sewer connections			awaited
along with construction of Sewage Treatment Plant & Sewage pumping Station		250 KL at Bad ke Balaji	GA Drawing and structural drawing approved, vetting from IIT/NIT is awaited
and all allied Work and operation services of the entire system for 10 years at Ratangarh (Churu).	Distribution Network	150.303 KM	a) Supply:107.236 Km b) Laid : 80.799 Km c) Hydro Testing: 42.931 Km d) Commissioning : NIL
Name of Contractor- M/s- Larsen& Toubro Limited	House Service Connection	12200 Nos	a) Laying/Installation: 3244b) Testing: NILc) Commissioning: NIL
Contract type- Design, Build and Operate	Domestic Water Meter	12200 Nos	a) Supply: 6250 Nos (15 mm siize) b) Installation : 0 Nos c) Testing: NIL d) Commissioning : NIL
Date of Start- 22.06.2020 Cumulative Financial	Metering	EMFM -16	a) Supply: 0 Nos. b) Installation : 0 Nos
Progress- 22.38 %		BFM -31	c) Testing: NIL d) Commissioning : NIL
Cumulative Physical Progress-55.38%		DEINI -3 I	a) Supply: 0 Nos. b) Installation : 0 Nos c) Testing: NIL d) Commissioning : NIL

Contract description	Cumulative Progress	of worl	ks up to 30.09.2	021		
Stipulated Date of completion of Design Build- 21.06.2023	Pressure Transmitters	55 No	S.	b) Insta c) Testi		
	No of DMAs	14 No.		a) Com	missioning : NIL	
	No. of DMAs	14 No:	5.	=		
	For Road Cutting & R	estorat	ion-			
	Road cutting		Road restorat Laye		Road restoration Top Layer	
	• Kuccha: -54.808 Km	ı	• Kuccha: -54.	308 Km	• Kuccha: -54.808 Km	
	• CC-22.838 Km		• CC-19.939 K	m	• CC-19.939 Km	
	• BT-0.774 Km		• BT-0.774 Km	1	BT- NIL	
	Interlock -2.379 Km		• Interlock -2.3	79 Km	Interlock -2.379 Km	
	Total -80.799 km		Total –77.3 km		• Total -76.53 km	
	Building and Miscella	neous	work			
	Item Description	Scope of Work		Progress made so far		
	CRMC Building opp to EE office	1 nos.		from IIT/N	Drawing approved. Vetti IIT is awaited. RCC Completo slab i/c lintels. Brick wor	
	CRMC Building at AEn office	1 nos.		from IIT/N upto roof	Drawing approved. Vettii IIT is awaited. RCC Complete slab i/c lintels. B/W complete for internal and external was.	
	MCC	1 Nos		from IIT/N 1) Grour B/W &	Drawing approved. Vetting IT is awaited and Floor: RCC, soiling, PC plastering completed. RCC of roof slab completed. Detected.	
	CWR 100 KL	1 Nos		from IIT/I foundation wall has I dome is in	Drawing approved. Vetting NIT is awaited. RCC of restriction of the second seco	
	CWR 250 KL	1 Nos		IIT/NIT is	drawing approved vetting from awaited. Excavation and PC	

Town: Fatehpur

Contract description	Cumulative Progress of works up to 30.09.2021		
Package no -	Sewerage Work:		
RSTDIP/RTG-FTP-LXG/01	Item	Scope	Progress
	STP (1 No.)	4.3 MLD at Nari	SBR: - Inner wall 2 nd lift wall
Works under package-		Bari Road in	casting completed. 3 rd lift
Construction of works of		existing STP	casting work is in progress.
Sewer Network with House		Campus	TEER: wall 4 th lift casting
connections; Construction of		·	completed. Top dome steel
Sewage Treatment Plant &			work is in progress

for foundation completed. RCC of wall completed upto bottom of raft slab.

Contract description 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-30.44 % Cumulative Physical Progress-48.95 % Admin building: F PCC work is in progres P	asting tering ress by
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- 30.44 % Cumulative Physical MPS - 3.5 MLD near dholi Sati Temple of Completed.6th lift shu and steel work is in progressory on the system of th	asting tering ress by
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- 30.44 % Cumulative Physical SPS (3 No.) SPS (3 No.) 3.5 MLD near dholi Sati Temple 0.60 MLD, Khasra no. 982, National Highway no. 52, Jahanghir ki kui 1.1 MLD Near Revised Hydraulic design GAD submitted. Revised Hydraulic design GAD submitted. Lateral sewer (upto dia 250 mm) 93.494 Km a) Supply: 87.102 Km b) Laid:-61.551 Km c) Testing: 61.43 Km	tering ress by
Name of Contractor- M/s- Larsen& Toubro Limited Contract type- Design, Build and Operate Date of Start- 22.06.2020 Cumulative Financial Progress- 30.44 % Cumulative Physical Aboli Sati Temple completed.6 th lift shu and steel work is in progress of the contractor of the contr	tering ress by
Name of Contractor- M/s- Larsen& Toubro Limited Contract type- Design, Build and Operate Date of Start- 22.06.2020 Cumulative Financial Progress- 30.44 % Cumulative Physical Cumulative Physical Cumulative Physical Cumulative Physical Cumulative Physical And steel work is in progress- 0.60 MLD, Khasra no. 982, National Highway no. 52, Jahanghir ki kui 1.1 MLD Near Revised Hydraulic design GAD submitted. (Khasra no. 1806) Lateral sewer (upto dia 250 mm) 93.494 Km and steel work is in progress GAD not submitted contractor and steel work is in progress-0.40 with submitted contractor 1.1 MLD Near Revised Hydraulic design GAD submitted. 3.2 Supply: 87.102 Km b) Laid:-61.551 Km c) Testing: 61.43 Km	ress by
Larsen& Toubro Limited Contract type- Design, Build and Operate Date of Start- 22.06.2020 Cumulative Financial Progress- 30.44 % Cumulative Physical Cumulative Physical Cumulative Physical Cumulative Physical Cumulative Physical Cumulative Physical	by
Contract type- Design, Build and Operate Date of Start- 22.06.2020 Cumulative Financial Progress- 30.44 % Cumulative Physical Cumulative Physical Cumulative Physical Cumulative Physical	·
Contract type- Design, Build and Operate Date of Start- 22.06.2020 Cumulative Financial Progress- 30.44 % Cumulative Physical Cumulative Physical Cumulative Physical Cumulative Physical	n and
Build and Operate Date of Start- 22.06.2020 Cumulative Financial Progress- 30.44 % Cumulative Physical Cumulative Physical Cumulative Physical Cumulative Physical	n and
Date of Start- 22.06.2020 Cumulative Financial Progress- 30.44 % Cumulative Physical Cumulative Physical Cumulative Physical Cumulative Physical Cumulative Physical	n and
Cumulative Progress- 30.44 %Financial Lateral sewer (upto dia 250 mm)Railway underpass (Khasra no. 1806)GAD submitted.Cumulative CumulativePhysicalDate of Start- 22.06.2020Railway underpass (Khasra no. 1806)GAD submitted.	n and
Cumulative Financial Progress- 30.44 % Cumulative Physical Cumula	
Cumulative Progress- 30.44 %Financial Lateral sewer (upto dia 250 mm)(Khasra no. 1806)Cumulative CumulativePhysical93.494 Kma) Supply: 87.102 Km b) Laid:-61.551 Km c) Testing: 61.43 Km	
Progress- 30.44 % Lateral sewer (upto dia 250 mm) 93.494 Km a) Supply: 87.102 Km b) Laid:-61.551 Km c) Testing: 61.43 Km	
Cumulative Physical Cumulative Physical Cumulative Physical Physical Cumulative Physical Physic	
Cumulative Physical c) Testing: 61.43 Km	
C) resulty. 01.45 kill	
Progress-48.95 % d) Deflection Test: 19.93	Кm
e) Commissioning: NIL	IXIII
Stipulated Date of Outfall (above dia 315) 1.5 KM a) Supply: NIL	
completion of Design b) Laid -NII	
Build- 21.06.2023 c) Testing: NIL	
d) Commissioning: NIL	
PVC-U pipe (110 & 160 mm dia) 66 KM a) Supply: 33.998 Km	
b) Laid:-8.759 Km	
c) Testing: NIL	
d) Commissioning: NIL	
Manholes (All types) 7478 Nos a) Supply: 2508 Nos	
(including shallow manh	ole
583 no.)	
b)Installation:-2403	
Nos.(including shallow	
manhole 583 no.)	
c) Testing: NIL d) Commissioning: NIL	
Inspection Chamber (A types) 6600 Nos a) Supply: 1550 Nos.	
b) Laid:-1352 Nos.	
c) Testing: NIL	
d) Commissioning: NIL	
Population Benefitted due to 60000 -	
commissioned	
For Road Cutting & Restoration-	
Road cutting Road restoration Base Layer Road restoration Layer	ор
• Kuccha: -45.415 • Kuccha: -45.415 Km • Kuccha: -45.415 Km	
Km	
• CC-14.448 Km • BT-0.0 Km	
BT-0.00 Km Interlock -0.0 Km Interlock -0.0 Km	
Interlock -0.0Km Total -57.203 km Total -56.930 km	
• Total -59.863km	
Building and Miscellaneous work	

Contract description	Cumulative Progress of works up to 30.09.2021				
	Building and Misc.	Building and Misc. Work			
	Item Description	Scope of Work	Progress made so far		
	CRMC Building	1 Nos. (Nagar Palika)	Finishing work in progress		
	CCC Building	-	-		
	MCC Building	-	-		
	PLC SCADA	-	-		
	Trenchless Work	1			
	HDPE Pipe	10.24 Km	a) Supply: 10.178 KM b) Laid:7.700 KM c) Testing: NIL d) Commissioning: NIL		
	DI Pipe	3.2 Km	a) Supply: 1.705 Km b) Laid:-NIL c) Testing: 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 30.09.2021			
Package no -	Water Supply:			
RSTDIP/SRD/01	Item	Scope	Progress	
	Total Distribution Network	250.75 km	-	
Works under package-	HDPE Pipe	231.60 Km	a) Supply: 101.060 Km	
Design and construction of			b) Laid:-56.47 Km	
works of water supply and			c) Testing: 36.39 Km	
providing sewer network with house sewer	DI DI 167	47.45.16	d) Commissioning: NIL	
connecting along with	DI Pipe K7	17.15 Km	a) Supply: NIL	
construction of Sewage			b) Laid:-NIL	
Treatment Plant &			c) Hydro Testing: NIL d) Commissioning: NIL	
Sewerage Pumping Station;	DI Pipe K9	2.100 Km	a) Supply:1.677 Km	
all allied works and	Dir ipe Rs	2.100 Kill	b) Laid:-NIL	
operation services of the			c) Hydro Testing: NIL	
entire system for 10 years at			d) Commissioning: NIL	
Sardarshahar (Churu).	House Service Connection	22000 Nos	a) Laying/Installation:-2206	
			Nos.	
Name of Contractor- M/s-			b) Testing: 2135 Nos.	
Larsen& Toubro Limited			c) Commissioning: NIL	
Contract type- Design,	Domestic Water Meter	22000 Nos	a) Supply: NIL	
Build and Operate			b) Installation:-NIL	
Bana and Operate			c) Testing: NIL	
Date of Start- 22.06.2020	B.A. A. seige as	ENGEN 47 N	d) Commissioning: NIL	
	Metering	EMFM-17 Nos	a) Supply: NIL	
Cumulative Financial			b) Installation:-NIL	
			c) Testing: NIL	

Contract description	Cumulative Progress of works up	to 30.09.2021	
Progress- 18.97 %		10 00:00:2021	d) Commissioning: NIL
Cumulative Physical Progress-33.95 %		BFM- 51 Nos.	a) Supply: NIL b) Installation:-NIL c) Testing: NIL d) Commissioning: NIL
Stipulated Date of completion of Design Build- 21.06.2023	Pressure Transmitters	85 Nos.	a) Supply: NIL b) Installation:-NIL c) Testing: NIL d) Commissioning: NIL
	No. of DMAs	26 Nos.	-
	RWR	-	_
	WTP	_	_
	Pump House	1 Nos. at PHED Campus	GAD & Layout RC details of numeration approved by PMCBC, contractor yet to start the work at site
	CWR	1 No. (2400 KL PHED Campus)	Excavation completed, PCC completed. Raft concreting works is in progress
	OHSR	-	-
	Rehab Work (WTP,PH,CWR,OHSR etc)	-	-
	Population benefitted due to commissioned	1.09 lacs	
	Waste Water		
	STP	3.4 MLD at North Campus 2.3 MLD at South Campus	TEER 540 KL: 2 nd lift over TB-2 completed & 3 rd lift is in progress SBR-Excavation & PCC completed & bar binding of bottom mesh has been completed and centre wall bar binding is in progress Admin Building: Excavation in Progress TEER 730 KL: Upto TB-5 completed & 1 st lift of column over TB-5 is in progress. SBR-Outer wall completed, inner wall & centre wall shuttering and bar bending is
	MPS SPS	1.6 MLD at Gandhi Vidhya Mandir Campus - 2.3 MLD at Gaushala Land near BSNL Office	in progress PTU: Excavation, PCC and footing completed. Columns upto plinth beam Private land identified. MOU of land is in progress

Contract description	Cumulative Progress of works up to 30.09.2021			
		0.65 MLD at IGNP Guest House	Layout done. Land handover under process at IGNP Secretary level	
	Lateral Sewer (upto dia 315)	51.789	a) Supply: 30.300 Km b) Laid:-17.43 Km c) Testing: 8.267 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:-4.06 Km c) Testing: NIL d) Commissioning: NIL	
	Manholes (All types)	4319 Nos.	a) Supply: 1352 nos. b) Installation:-646 Nos. c) Testing: 156 Nos. d) Commissioning: NIL	
	Inspection Chamber (All types)	7600 Nos.	a) Supply: 1651 Km b) Installation:-670 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: -19.330 Km	• Kuccha: -19.330 Km	• Kuccha: -19.330 Km
• CC-37.440 Km	• CC PCC-11.788 Km	• CC-30.057 Km
• BT-0.00 Km	• CC PCC -3.47 km	• CC PCC-3.47 km
 Interlock -0.0Km 	• BT (GSB/WMW) -0.0 Km	• BT Top- 0.0 km
Total -56.47 km	Interlock -0.0 Km	Interlock -0.0 Km
	Total –52.857 km	Total -52.857 km

Item Description	Scope of Work	Progress made so far
CRMC -1	1. PHED Campus	Structure completed. Finishing work in progress
CRMC -1	Inside Fire Fighting Station	 Lad allotted by NP and site will be clear soon after shifting of dumped material.
CCC Building (1 No.)	PHED Campus	Structure completed. Finishing work in progress
MCC Building (1 No.)	PHED Campus	Structure completed. Finishing work in progress. vetting from IIT/NIT is awaited.
PLC SCADA	1 No.	-
Trenchless Work	1	
HDPE Pipe	11.866 Km	a) Supply: -9.571 Km b) Laid:-0.610 Km

Contract description	Cumulative Progress of works up to 30.09.2021		
			c) Testing: NIL d) Commissioning: NIL
	RCC Pipe	-	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL
	MS Pipe	-	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL

		n: Abu Road	
Contract description	Cumulative Progress	of works up to 30.09.	2021
Package no -	Water Supply		
RSTDIP/SHR-ABR/01	Item	Scope	Progress
	HDPE Pipe	146.21 Km	a) Supply: 76.37 Km
Works under package-			b) Laid:-22.590 Km
Construction of works of			c) Testing: 18.9 km
water Supply production;			d) Commissioning: NIL
Distribution Network	DI Pipe K7	18.09 Km	a) Supply: 18.09 Km
improvements with house			b) Laid:-0
services connections for non			c) Hydro Testing: NIL
revenue water reduction and			d) Commissioning: NIL
continuous water supply and	DI Pipe K9	33.4 Km	a) Supply:29.3 Km
providing Sewer network	(Transmission		b) Laid:-8.396 Km
with house connections;	Mains)		c) Hydro Testing: 7.28 km
Construction of Sewage			d) Commissioning: NIL
Treatment Plant and all	House Service	12800 Nos	a) Laying/Installation:-1689 Nos.
allied works and operation	Connection		b) Testing: 1678
services of the entire system			c) Commissioning: NIL
for 10 years at Abu Road	Domestic Water	12800 Nos	a) Supply: NIL
	Meter		b) Installation:-NIL
Name of Contractor- M/s-			c) Testing: NIL
Larsen& Toubro Limited			d) Commissioning: NIL
Contract turns Design	Metering	EMFM-13 Nos	a) Supply: NIL
Contract type- Design,			b) Installation:-NIL
Build and Operate			c) Testing: NIL
Date of Start- 22.06.2020			d) Commissioning: NIL
Date of Start- 22.00.2020		BFM- 59 Nos.	a) Supply: NIL
Cumulative Financial			b) Installation:-NIL
Progress- 23.50 %			c) Testing: NIL
Progress- 23.50 %			d) Commissioning: NIL
Cumulative Physical	Pressure	88 Nos.	a) Supply: NIL
Progress-13.3 %	Transmitters		b) Installation:-NIL
Flogress-13.5 //			c) Testing: NIL
Stipulated Date of			d) Commissioning: NIL
completion of Design	No. of DMAs	20 Nos.	-
Build- 21.06.2024	RWR	-	-
21.00.2024	WTP	1 No	Clariflocculator : Wall of completed
			upto slab level, reinforcement is in
			progress
			Staff Quarters: Work completed till
			plinth level

Contract description	Cumulative Progress	of works up to 30.0	09.2021
			Guard Room- Metering room: Work
			completed till plinth level
	Pump House	5 No	GA P&ID layout approved
	CWR	5 No.	GA,P & ID, Layout drawing approved for other CWRs
			Luniyapura CWR- Excavation done
	Intake	1	 Online Forest permission application uploaded by consultant firm and permission awaited, GA P & ID & layout drawings approved.
	Waste Water		
	STP	2	EMI Drawing under approval
	6.9 MLD STP		
	a) SBR		90% of raft work completed and wall concreting in progress
	b) PTU		Work completed upto plinth level
	c) Staff Quarter		Work has completed till ground floor column upto slab level
	d) Admin building		Raft work completed
	e) Blower room, Laboratory, MCC Room, Workshop, Chlorination Room		100% Raft work completed
	2.3 MLD STP		
	a) SBR		Raft reinforcement work in progress
	b) PTU and Guard Room		Footing-Reinforcement work under progress
	DWC Pipes	96.95 Km	a) Supply: 49.38 Km b) Laid:-21.383 Km c) Testing: 20.791 Km d) Deflection Test: 16.988 km e) Commissioning: NIL
	RCC Pipes	3.49 Km	a) Supply: NIL b) Installation:-NIL c) Testing: NIL d) Commissioning: NIL
	PVC-U Pipe	130 Km	a) Supply: 38.78 Km b) Laid:-8.329 Km c) Testing: 8.290 Km d) Commissioning: NIL
	Manholes (All types)	6887 Nos.	a) Supply: 3034 nos.b) Installation:-910 Nos.c) Testing: 789 Nos.d) Commissioning: NIL
	Inspection Chamber (All types)	13000 Nos.	a) Supply: 4725 Km b) Installation:-1706 Nos. c) Testing: 1696 nos. d) Commissioning: NIL
	Population benefitted due to commissioned	66016	

Contract description	Cumulative Progress of works up to 30.09.2021			
_	For Road Cutting & F			
	Item Description	Scope of Work	Progress made so far	
	Road Cutting	95.35 Km	Kuccha/WMM: -4.7 KmCC-13.56 KmBT-3.10 Km	
	Road Restoration	95.35 Km	 Kuccha/WMM: -4.7 Km (Only Kuccha) CC Km (upto PCC-12.75 , Full CC-12.70 BT Km (upto WMM)-3.03 km, Full BT-0 	
	Building and Miscell	aneous work		
	Item Description	Scope of Work	Progress made so far	
	CRMC Building	1	Plinth Beam reinforcement work under progress	
	CCC Building	1	Excavation work under progress	
	MCC Building	1	Column reinforcement & shuttering work under progress	
	PLC SCADA	11	Drawings under review	
	Trenchless Work			
	HDPE Pipe	14.50 km	a) Supply: 13.88 Km b) Laid:- 0.860 Km c) Testing: 0.8 Km d) Commissioning: NIL	
	RCC Pipe	30 mtrs	a) Supply: NIL b) Laid:- NIL c) Testing: NIL d) Commissioning: NIL	
	MS Pipe	210 mtrs	a) Supply: NIL b) Laid:- NIL c) Testing: NIL d) Commissioning: NIL	

Town: Sirohi

Contract description	Cumulative Progress of works up to 30.09.2021		
Package no -	Water Supply		
RSTDIP/SHR-ABR/01	Item	Scope	Progress
	HDPE Pipe	118 Km	a) Supply: 48.896 Km
Works under package-	·		b) Laid:- 33.320 Km
Construction of works of			c) Testing: 30.977 Km
water Supply production;			d) Commissioning: NIL
Distribution Network	DI Pipe K7	5.4 Km	a) Supply: 5.00 Km
improvements with house			b) Laid:-0.354 km
services connections for non			c) Hydro Testing: NIL
revenue water reduction and			d) Commissioning: NIL
continuous water supply and	DI Pipe K9	36.76 Km (as per	a) Supply:22.408 Km
providing Sewer network		BOQ)	b) Laid:-15.523 Km
with house connections;		Revised -29.92 Km	c) Hydro Testing: 14.207 Km
Construction of Sewage			d) Commissioning: NIL
Treatment Plant and all	House Service	8900 Nos	a) Laying/Installation:-1596 Nos.

Contract description	Cumulative Progress of works up to 30.09.2021			
allied works and operation	Connection	or works up to 30.03.2	b) Testing: 1411 Nos.	
services of the entire system	Oornicction		c) Commissioning: NIL	
for 10 years	Domestic Water	8900 Nos	a) Supply: NIL	
,	Meter	00001100	b) Installation:-NIL	
Name of Contractor- M/s-	Wictor		c) Testing: NIL	
Larsen& Toubro Limited			d) Commissioning: NIL	
	Metering	EMFM-10 Nos	a) Supply: NIL	
Contract type- Design,	Weter mig	2 10 1100	b) Installation:-NIL	
Build and Operate			c) Testing: NIL	
			d) Commissioning: NIL	
Date of Start- 22.06.2020		BFM- 11 Nos.	a) Supply: NIL	
			b) Installation:-NIL	
Cumulative Financial			c) Testing: NIL	
Progress- 12.57 %			d) Commissioning: NIL	
	Pressure	47 Nos.	a) Supply: NIL	
Cumulative Physical	Transmitters		b) Installation:-NIL	
Progress- 17.53 %			c) Testing: NIL	
			d) Commissioning: NIL	
Stipulated Date of	No. of DMAs	20 Nos. (with 7 Nos	As per advised scheme	
completion of Design		Zones)		
Build- 21.06.2024	Intake	8.60 MLD Intake well	Exercise for soil investigation is	
		at Angore	progress	
		3.90 MLD Intake well	Source deleted (as per revised	
		at Kalkaji	scheme)	
	WTP	9 MLD WTP at	, ,	
		Angore	is going on	
	Pump House (2	1. At Teen Batti	1. Teen batti CWR-PH: Layout	
	Nos)	2. At Kalkaji	approved & design calculation etc. is	
		3. At Sardulpura	under review	
	CWR	Existing CWR (3	-	
		Nos.)		
		1. 200 KL at Teen		
		Batti 2. 576 KL at Kalkaji		
		3. 100 KL at Raikaji		
		Shardulpura		
			1. Teen Batti CWR-PH; layout approved	
		nos)	& design calculation etc. is under	
		1. 470 KL at Teen		
			review.	
			review. 2. Kalkaii CWR-PH: GAD approved &	
		Batti	2. Kalkaji CWR-PH: GAD approved &	
		Batti 2. 1450 KL at Kalkaji		
		Batti	2. Kalkaji CWR-PH: GAD approved & Layout, design calculation etc. is under	
		Batti 2. 1450 KL at Kalkaji 3. 270 KL capacity at	2. Kalkaji CWR-PH: GAD approved & Layout, design calculation etc. is under review	
		Batti 2. 1450 KL at Kalkaji 3. 270 KL capacity at Sardulpura	Kalkaji CWR-PH: GAD approved & Layout, design calculation etc. is under review Sardulpura CWR-PH: GAD and	
	GLSR	Batti 2. 1450 KL at Kalkaji 3. 270 KL capacity at Sardulpura Existing GLSR (3	Kalkaji CWR-PH: GAD approved & Layout, design calculation etc. is under review Sardulpura CWR-PH: GAD and layout approved & design is under	
	GLSR	Batti 2. 1450 KL at Kalkaji 3. 270 KL capacity at Sardulpura Existing GLSR (3 Nos.)	Kalkaji CWR-PH: GAD approved & Layout, design calculation etc. is under review Sardulpura CWR-PH: GAD and layout approved & design is under	
	GLSR	Batti 2. 1450 KL at Kalkaji 3. 270 KL capacity at Sardulpura Existing GLSR (3 Nos.) 1. 567 KL at	Kalkaji CWR-PH: GAD approved & Layout, design calculation etc. is under review Sardulpura CWR-PH: GAD and layout approved & design is under	
	GLSR	Batti 2. 1450 KL at Kalkaji 3. 270 KL capacity at Sardulpura Existing GLSR (3 Nos.) 1. 567 KL at Tankariya on hillocks	Kalkaji CWR-PH: GAD approved & Layout, design calculation etc. is under review Sardulpura CWR-PH: GAD and layout approved & design is under	
	GLSR	Batti 2. 1450 KL at Kalkaji 3. 270 KL capacity at Sardulpura Existing GLSR (3 Nos.) 1. 567 KL at Tankariya on hillocks 2. 400 KL at	Kalkaji CWR-PH: GAD approved & Layout, design calculation etc. is under review Sardulpura CWR-PH: GAD and layout approved & design is under	
	GLSR	Batti 2. 1450 KL at Kalkaji 3. 270 KL capacity at Sardulpura Existing GLSR (3 Nos.) 1. 567 KL at Tankariya on hillocks 2. 400 KL at Bhatakhera on	Kalkaji CWR-PH: GAD approved & Layout, design calculation etc. is under review Sardulpura CWR-PH: GAD and layout approved & design is under	
	GLSR	Batti 2. 1450 KL at Kalkaji 3. 270 KL capacity at Sardulpura Existing GLSR (3 Nos.) 1. 567 KL at Tankariya on hillocks 2. 400 KL at Bhatakhera on hillocks	Kalkaji CWR-PH: GAD approved & Layout, design calculation etc. is under review Sardulpura CWR-PH: GAD and layout approved & design is under	
	GLSR	Batti 2. 1450 KL at Kalkaji 3. 270 KL capacity at Sardulpura Existing GLSR (3 Nos.) 1. 567 KL at Tankariya on hillocks 2. 400 KL at Bhatakhera on	Kalkaji CWR-PH: GAD approved & Layout, design calculation etc. is under review Sardulpura CWR-PH: GAD and layout approved & design is under	

Contract description	Cumulative Progress of works up to 30.09.2021			
		Proposed GLSR	-	
		1. 270 KL at		
		Bhatakhera on		
		hillocks		
		2. 580 KL at		
		Tankeria on hillocks		
	Tube well & Open	12 nos of existing	-	
	Well	tube wells and open		
		wells		
		6 nos. of existing		
		open well		
		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		
		Proposed OHSRs	_	
	Population	35000	_	
	benefitted due to			
	commissioned			
	Waste Water			
	STP (2 nos.)	5 MLD	SBR raft completed excavation of	
	011 (21100.)	0 11125	TEER started & security room column	
			above plinth beam, staff room column	
			upto plinth beam and plastering on	
			boundary wall is in progress.	
		1.7 MLD	SBR Raft casting is in progress,	
		25	excavation of TEER started, staff room	
			column upto lintel levels is in progress	
			and guard room slab completed	
	MPS	_	Excavation at 1.7 MLD STP in	
	5		progress	
	SPS	_	-	
	Lateral Sewer (upto	88.76 Km	a) Supply: 44.810 Km	
	dia 315)	3.7.0 1.011	b) Laid:-22.434 Km	
	3.3 0 10)		c) Testing: 20.183 Km	
			d) Deflection Test: 20.183 km	
			e) Commissioning: NIL	
	Outfall (above dia	3.9 Km	a) Supply: 0.800 km	
	315)	0.0 1411	b) Laid:-0.742 km	
	510)		c) Testing: 0.517 km	
			d) Commissioning: NIL	
	PVC-U Pipe (110 &	90 Km	a) Supply: 16.406 Km	
	160 mm dia)	JO KIII	b) Laid:-9.266 Km	
	100 mm dia)		c) Testing: 9.00 Km	
			d) Commissioning: NIL	
	Manholes (All	5990 Nos.	a) Supply: 2466 nos	
	`	J330 NOS.	b) Installation:-792 Nos.	
i	types)		v) 1115taliati011132 NOS.	

Contract description	Cumulative Progress of works up to 30.09.2021			
	1 11 11 11 19 1000		c) Testing: 719 Nos.	
			d) Commissioning: NIL	
	Inspection Chamber	9000 Nos.	a) Supply: 1400 nos	
	(All types)		b) Installation:-1298 Nos.	
			c) Testing: 1272 Nos.	
			d) Commissioning: NIL	
	For Road Cutting & R	Restoration-	,	
	Item Description	Scope of Work	Progress made so far	
	Road Cutting	Granular Course -	• Kuccha/WMM: -28.930 Km	
		31585 cum	• CC-11.80 Km	
		BB- 20,980 cum	• BT-1.65 Km	
		BT -3170 cum		
	Road Restoration	Granular Course -	a) CC:	
		31585 cum	9.70 Km (upto PCC)	
		BB- 20,980 cum	8.50 Km (upto CC)	
		BT -3170 cum	b) BT:	
			0.98 km (upto WBM)	
			0.45 km (upto BT)	
			Kuccha/WMM: 28.390 Km	
	Building and Miscella	neous work		
	Item Description	Scope of Work	Progress made so far	
	CRMC Building	1	Drawing is approved land is not finalized yet	
	CCC Building	1	Drawing is approved land is not finalized yet	
	MCC Building	1	Drawing approved	
	PLC SCADA	-	-	
	Trenchless Work			
	HDPE Pipes	10.8 Km	a) Supply: 9.069 Km b) Laid:-0.333 Km c) Testing: NIL 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	
	Trenchless Work		a) Commodorning. IVIL	
	Item Description	Scope of Work	Progress made so far	
	HDPE Pipe	10.8 Km	a) Supply: 9.069 Km b) Laid:-0.850 Km c) Testing: NIL d) Commissioning: NIL	

Town: Pratapgarh

Town: Pratapgarh				
Contract description	Cumulative Progress of works up to 30.09.2021			
Package no -	Waste Water			
RSTDIP/PRT/01	Item	Scope	Progress	
	STP (2 nos.)	7 MLD	Boundary wall work in progress and	
Works under package-			NOC awaited from Nagar Parishad	
Construction of Works of	MWP	0.1 MLD	In progress	
Water Supply production	SPS	7 MLD	In Progress	
and Distribution Network	Lateral Sewer (upto	93.745 Km	a) Supply: 58.675 Km	
improvements with house	dia 315)		b) Laid:-40.028 Km	
services connections for non	,		c) Testing: 40.028 Km	
revenue water reduction and			d) Deflection Test: NIL	
continuous water supply and			e) Commissioning: NIL	
providing Sewer network	Outfall (above dia	6.67 Km	a) Supply: 2.079 Km (RCC)	
with house sewer	315)		b) Laid:-0.98 km	
connections along with			c) Testing: 0.0 km	
construction of Sewage			d) Commissioning: NIL	
Treatment Plant &	PVC-U Pipe (110 &	108 Km	a) Supply: 33.504 Km	
Sewerage Pumping Station	160 mm dia)		b) Laid:-20.813 km	
and all allied works and			c)Testing: 20.813 km	
operation services of entire			d) Commissioning: NIL	
system for 10 years at	Manholes (All	6884 Nos.	a) Supply: 2241 nos	
Pratapgarh town	types)		b) Installation: 2060 Nos.	
Name of Contractor- Khilari			c) Testing: NIL	
Infrastructure PVT.LTD.			d) Commissioning: NIL	
inirastructure PVT.LTD.	Inspection Chamber	10800 Nos.	a) Supply: 4505 nos	
Contract type Decign	(All types)		b) Installation:-2761 nos.	
Contract type- Design, Build and Operate			c) Testing: NIL	
Build and Operate			d) Commissioning: NIL	
Date of Start- 02.11.2020	For Road Cutting & R			
Date of Start- 02.11.2020	Item Description	Scope of Work	Progress made so far	
Cumulative Financial	Road Cutting	a) CC: Km	• CC-18.432 Km	
Progress- 7.03 %		b) BT: Km	• BT-17.911 Km	
1.10g.000 7.00 /0		c) Kuchha/WMM: Km	Kuccha/WMM: -4.117 Km	
Cumulative Physical			Interlock tiles: 0.548 km	
Progress- 7.21 %	Road Restoration	a) CC: Km	a) CC:	
		b) BT: Km	17.409 km (upto PCC)	
Stipulated Date of		c) Kuchha: Km	17.249 km (upto CC)	
completion - 01.11.2024		,	b) BT:	
			16.661 km (upto WMM)	
			1.506 km (upto BT)	
			4.117 km Kuccha	
			0.548 km Interlock tiles	
	Building and Miscella	neous work		
	Item Description	Scope of Work	Progress made so far	
	CRMC Building	2	80.20 % (work in progress)	
	CCC Building	0	-	
	MCC Building	2	-	
	PLC SCADA	2	-	
	Trenchless Work			

Contract description	Cumulative Progress of works up to 30.09.2021		
	HDPE Pipes	9.195 Km	a) Supply: 1.750 km b) Laid:-0.696 km c) Testing: NIL d) Commissioning: NIL
	RCC Pipes	0.060 Km	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	Cumulativa Progress of works up to 20.09.2021		

Contract description | Cumulative Progress of works up to 30.09.2021

Town: Banswara

Package no RSTDIP/BNS/04

Works under package-Construction of Works of Water Supply Production and Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply 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- 3.24 %

Cumulative Physical Progress- 5.22 %

Stipulated Date of completion – 31.01.2025

Water Supply		
Item	Scope	Progress
Total distribution network	338.690 km	-
HDPE Pipe	443.220 km	a) Supply: 20.05 Km b) Laid:- 0.0 Km c) Testing: 0.0 Km d) Commissioning: 0.0 km
DI Pipe K7	286.793 Km	a) Supply: 60.004 Km b) Laid:-16.79 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) Laying/Installation:-106 Nos. b) Testing: 0 Nos. c) Commissioning: NIL
Domestic Water Meter	23600 Nos	a) Supply: NIL b) Installation:-NIL c) Testing: NIL d) Commissioning: NIL
Metering	EMFM- 32 Nos	a) Supply: NIL b) Installation:-NIL c) Testing: NIL d) Commissioning: NIL
	BFM- 18 Nos.	a) Supply: NIL b) Installation:-NIL c) Testing: NIL d) Commissioning: NIL
Pressure Transmitters	0 Nos.	a) Supply: NIL b) Installation:-NIL c) Testing: NIL d) Commissioning: NIL
No. of DMAs	28 Nos.	_
WTP	1 no.= 9.25 MLD (AEn Camppus)	Site Cleaning and Layout
Pump House	1. At Existing AEn	-

Contract description	Cumulative Progress	of works up to 30.09.2	2021
		Campus	
		2. At Kagdi WTP	
		Campus	
	CMD	OMD 4550 KL /A55	
	CWR	CWR-1550 KL (AEn Campus, PHED	-
		Campus, PHED main campus)	
	OHSR		
	Rehab work	_	- -
	(WTP,PH,CWR,		
	OHSR etc.)		
	Population	-	-
	benefitted due to		
	commissioned		
	Waste Water		
	STP (1 nos.)	9.60 MLD (existing STP Campus)	Excavation of SBR & MPS is in progress
	SPS		Site cleaning, layout and fenncing
		(Ward no. 21 near	
		Nathelav Pond)	
		SPS-2: 1.7 MLD	NIL
		(Ward no. 1 near	
	Lateral Sewer (upto	Pratapgarh Road) 6.431 Km	a) Supply: 0 Km
	dia 300 HDPE-	0.431 KIII	b) Laid:-0 Km
	DWC)		c) Testing: 0 Km
			d) Commissioning: 0 km
	Outfall (above dia	3.9 Km	a) Supply: 0.800 km
	300 RCC NP4)		b) Laid:-0.742 km
	,		c) Testing: 0.517 km
			d) Commissioning: NIL
	PVC-U Pipe (110 &	138 Km	a) Supply: 5.496 Km
	160 mm dia)		b) Laid:-1.29 Km
			c) Testing: 0 Km
			d) Commissioning: NIL
		6338 Nos.	a) Supply: 580 nos
	types)		b) RCC Manhole Installation:-473 Nos.
			c) Shallow manhole:312 nos.
			Testing: 0 Nos.
	Inspection Chamber	13800 Nos.	d) Commissioning: 0 nos. a) Supply: 798 nos
	(All types)	10000 1105.	b) Installation:-242 Nos.
	(5, poo)		c) Testing: 0 Nos.
			d) Commissioning: NIL
	HSC	11251 nos.	
	Population	-	-
	benefitted due to		
	commissioned		
	For Road Cutting & R		Burne I
	Item Description	Scope of Work	Progress made so far
	Road Cutting		• CC-14.79 Km
			• BT-5.2 Km
			Kuccha/WMM: -12.74 Km

Contract description	Cumulative Progress	of works up to 30.09.2	2021
	Road Restoration		a) CC: 0 km (upto PCC) 0 km (upto CC) 14.79 km (CC upto motorable) b) BT: 0 km (upto WMM) 0 km (upto BT) 5.2 km upto motorable Kuccha/ WMW: 12.74 km
	Building and Miscell	aneous work	Rucciia/ VVIVIVV. 12.74 Kiii
	Item Description	Scope of Work	
	CRMC Building	3 (At AEn Campus, at Dahod road, at Housing board colony)	Site cleaning
	CCC Building	1 at AEn Campus	Site cleaning and layout working in progress
	MCC Building	1 at AEn Campus	Site cleaning and layout working in progress
	PLC SCADA	-	-
	Trenchless Work	1 . ==0.14	
	HDPE Pipes	4.576 Km	a) Supply: 0 km b) Laid:-0 km c) Testing: 0 km d) Commissioning: 0 km

Town: Kuchaman

Contract description	Cumulative Progress of works up to 30.09.2021		0.09.2021
Package no -	Water Supply		
RSTDIP/KMN/02	Item	Scope	Progress
	Total distribution	332.5 km	-
Works under package-	network		
Construction of Works of	HDPE Pipe	327.7 km	a) Supply: 0.0 Km
Water Supply Production			b) Laid:- 0.0 Km
and Distribution Network			c) Testing: 0.0 Km
Improvements with house			d) Commissioning: 0.0 km
service connections for	DI Pipe K7	4.8 Km	a) Supply: 68.275 Km
nonrevenue water reduction			b) Laid:-16.991 km
and continuous water supply			c) Hydro Testing: 0.0 km
and Providing Sewer			d) Commissioning: 0.0 km
Network with House sewer	DI Pipe K9	11.34 km	a) Supply:0 Km
connections along with			b) Laid:-0 Km
construction of Sewage			c) Hydro Testing: 0 Km
Treatment Plant and all			d) Commissioning: 0 km
allied Works and operation	House Service	14900 Nos	a) Laying/Installation:-0 Nos.
services of the entire system	Connection		b) Testing: 0 Nos.
for 10 years at Kuchaman			c) Commissioning: NIL
Name of Contractor M/s	Domestic Water	14900 Nos	a) Supply: NIL
Name of Contractor- M/s. Larsen & Turbo Pvt. Ltd.	Meter		b) Installation:-NIL
Larsen & Turbo PVI. LIG.			c) Testing: NIL

Contract description	Cumulativa Dragraga	of works up to 20	00 2024
Contract description	Cumulative Progress	or works up to 30.	
Contract type- Design, Build and Operate Date of Start- 18.5 2021	Metering	EMFM	d) Commissioning: NIL a) Supply: NIL b) Installation:-NIL c) Testing: NIL
Cumulative Financial Progress- 4.54 %		BFM	d) Commissioning: NIL a) Supply: NIL b) Installation:-NIL c) Testing: NIL
Cumulative Physical Progress- 0.88 % Stipulated Date of	Pressure Transmitters	0 Nos.	d) Commissioning: NIL a) Supply: NIL b) Installation:-NIL c) Testing: NIL d) Commissioning: NIL
completion – 31.10.2024	No. of DMAs	12 Nos.	-
	RWR	-	
	WTP	NIL	
	Pump House	4 nos.	_
	CWR	4 nos.	-
	OHSR	-	-
	Rehab work (WTP,PH,CWR, OHSR etc.)	-	-
	Population benefitted due to commissioned	-	-
	Waste Water		
	STP (1 nos.)	7.60 MLD	Soil testing completed
	SPS		
	MPS		
	SPS	3.10 MLD	
		0.85 MLD	
	Lateral Sewer (upto dia 315)	148.942 Km	a) Supply: 20 Km b) Laid:-2.639 Km c) Testing: 0 Km d) Deflection Test: 0 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: 14.94 Km b) Laid:-0 Km c) Testing: 0 Km d) Commissioning: NIL
	Manholes (All types)	10352 Nos.	a) Supply: 675 nos b) Installation:-36 Nos. c).Testing: 0 Nos. d) Commissioning: 0 nos.
		10800 Nos.	a) Supply: 450 nos
	Inspection Chamber (All types) Population	10000 NOS.	b) Installation:-0 Nos. c) Testing: 0 Nos. d) Commissioning: NIL

Contract description	Cumulative Progress	of works up to 30.09	.2021
	benefitted due to		
	commissioned		
	For Road Cutting & R	estoration-	
	Item Description	Scope of Work	Progress made so far
	Road Cutting	a) CC: Km	• CC-0.390 Km
	Road Odding	b) BT: Km	• BT-0.740 Km
		c) Kuchha	
		d) WMM: Km	• WMM: -4.117 Km
		'	• Kaccha: 18.50 km
	Road Restoration	a) CC: Km	a) CC:
		b) BT: Km	0 km (upto PCC)
		c) Kuchha	0 km (upto CC)
		d) WMM: Km	b) BT:
			0 km (upto WMM)
			0 km (upto BT)
			c) WMW: NIL
			d) Kaccha: 18.30 km
	Building and Miscella	neous work	
	Item Description	Scope of Work	Progress made so far
	CRMC Building	2	NIL
	CCC Building	1	NIL
	MCC Building	1	NIL
	PLC SCADA Trenchless Work	1	NIL
		1001	
	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
			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 30.09	.2021
		own: Didwana	
Package no -	Waste Water	T 0	
RSTDIP/DID/01	Item	Scope	Progress
Manka under maskerus	STP	1.30 MLD	GA Drawing for inlet chamber,
Works under package-			mechanical fine bar screen channel
Construction of Works of			and mechanical grit separator units,
Providing Sewer Network			sludge storage yard, Admin building
with House sewer			yard, Admin building block
connections along with			submitted by contractor on dated
construction of Sewage			24.09.2021 and TL PMCBC review
Treatment Plant & Sewage			and returned with observation for
pumping Station and all			compliance to contractor on dated
allied Works and operation			25.9.21
services of the entire system			 Piping arrangement drawing of

Contract description	Cumulativa Programa	of works up to 20.00	2024
Contract description	Cumulative Progress	of works up to 30.09.2	
Name of Contractor- M/s. Larsen & Turbo Limited Contract type- Design,			TEER, instrumentation, calculation and numeration of guard room & metering room submitted by contractor and PMCBC review and returned to resubmit the same incorporating the changes
Build and Operate	MPS		
Date of Start- 18.5.2021 Cumulative Financial Progress- 0 %	SPS	SPS-1: 1.7 MLD (Salt area)	Court stay on SPS-1 land the EE sir is in continuous contact with Municipal authorities to get vacate the stay and meanwhile nearby alternative land is
110gress- 0 /6			also being searched
Cumulative Physical Progress- 0 %		SPS -2: 1.3 MLD (RSEB Campus)	AEn RSVPNL issued vide letter no. 215 on dated 28.09.2021 to Nagar Palika Didwana for deposit amount Rs. 194580 in favour of account officer
Stipulated Date of completion – 16.05.2024			RSVPNL for land handing over over RSVPNL to Nagar Palika
	Lateral Sewer (upto dia 315)	57.47 Km	a) Supply: 200 mm (DWC): 10 km 250 mm (DWC): 0.42 km
			b) Laid:-6.705 Km (200 mm DWC) c) Testing: 2.84 Km d) Deflection Test: NIL e) Commissioning: NIL
	Outfall (above dia 315)		a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL
	PVC-U Pipe (110 & 160 mm dia)	44.0 Km	a) Supply: 17 Km (110 km) 1 km (160 Km) b) Laid:-0.181 km (110 mm) c)Testing: NIL d) Commissioning: NIL
	Manholes (All types)		a) Supply: 546 nos b) Installation: 72 Nos. c) Testing: NIL d) Commissioning: NIL
	Inspection Chamber (All types)		a) Supply: 306 nos b) Installation:-16 nos. c) Testing: NIL d) Commissioning: NIL
	Population benefitted due to commissioned	36184	-
	For Road Cutting & R	estoration-	
	Item Description	Scope of Work	Progress made so far
		a) CC: Km	a) CC: 3.193 km
		b) BT: Km	b) BT: 1.69 km
		c) Kuchha/WMM: Km	c) WBM : 0.52 km
) 00 I/	d) Kuccha: 1.57 km
	Road Restoration	a) CC: Km	a) CC:

Contract description	Cumulative Progress	Cumulative Progress of works up to 30.09.2021		
		b) BT: Km c) Kuchha: Km	0 km (upto PCC) 0 km (upto CC)	
			b) BT: 0 km (upto WBM) 0 km (upto BT) c) WBW: NIL	
			d) Kaccha: 1.57 km	
	Building and Miscell	aneous work		
	Item Description	Scope of Work	Progress made so far	
	CRMC Building	1	Land allotment letter issue by Nagar Palika Didwana on dated 10.09.2021 vide letter 2473 and directed to contractor for submission of designs & drawings for the same.	
	CCC Building	-	-	
	MCC Building	-	-	
	PLC SCADA	-	-	
	Trenchless Work			
	HDPE Pipes	10.0 Km	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) 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	s of works up to 30.09.2	2021	

Town: Ladnu

Package no RSTDIP/LDN/01

Works under packageConstruction of 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.

Waste Water		
Item	Scope	Progress
STP (2 nos.)	5.5 MLD & 2.4 MLD	-
Lateral Sewer (upto	110.912 Km	a) Supply: 10.0 Km
dia 315)		b) Laid:-0.082 Km
		c) Testing: 0 km
		d) Deflection Test: 0 km
		e) Commissioning: 0 km
Outfall (above dia	2.554 km	a) Supply: 0 km
315)		b) Laid:-0 km
		c) Testing: 0.0 km
		d) Commissioning: 0 km
PVC-U Pipe (110 &	123.650 Km	a) Supply: 2.0 Km
160 mm dia)		b) Laid:-0 km
		c) Testing: 0.0 km
		d) Commissioning: 0 km

Contract description	Cumulativa Braggasa	of works up to 20 00 t	2024
Contract description		of works up to 30.09.2	
Larsen & Turbo Limited	1 1	8778 Nos.	a) Supply: 72 nos
Contract time Decima	types)		b) Installation: NIL
Contract type- Design,			c) Testing: NIL
Build and Operate			d) Commissioning: NIL
	Inspection Chamber	12365 Nos.	a) Supply: 0 nos.
Date of Start- 18.5 2021	(All types)		b) Installation:-0 nos.
			c) Testing: NIL
Cumulative Financial			d) Commissioning: NIL
Progress- 0 %	Population	-	-
	benefitted due to		
Cumulative Physical	commissioned		
Progress- 0.07 %	For Road Cutting & R	estoration-	
	Item Description	Scope of Work	Progress made so far
Stipulated Date of	Road Cutting	a) CC: Km	CC: 0.15 km
completion – 16.5.2024		b) BT: Km	BT: km
		c) Kuchha/WMM: Km	Kuccha/WMM: km
	Road Restoration	a) CC: Km	a) CC:
		b) BT: Km	0 km (upto PCC)
		c) Kuchha/WMM: Km	0 km (upto CC)
		-, : ::::::::::::::::::::::::::::::::::	- ···· (5p. 5 5)
			b) BT:
			0 km (upto WBM)
			0 km (upto BT)
			C (Sp. C 2 .)
			c) WBW/Kuccha: NIL
	Building and Miscella	neous work	
	Item Description	Scope of Work	Drogress made so far
	litem Description	Scope of Work	Progress made so far
	-	•	- Frogress made so lai
	CRMC Building	2	
	CRMC Building	2	-
	-	•	
	CRMC Building CCC Building	2	-
	CRMC Building CCC Building MCC Building	0 0	-
	CRMC Building CCC Building MCC Building PLC SCADA	2	-
	CRMC Building CCC Building MCC Building PLC SCADA Trenchless Work	0 0 1	-
	CRMC Building CCC Building MCC Building PLC SCADA	0 0	
	CRMC Building CCC Building MCC Building PLC SCADA Trenchless Work	0 0 1	a) Supply: NIL b) Laid:-NIL
	CRMC Building CCC Building MCC Building PLC SCADA Trenchless Work	0 0 1	a) Supply: NIL b) Laid:-NIL c) Testing: NIL
	CRMC Building CCC Building MCC Building PLC SCADA Trenchless Work HDPE Pipes	2 0 0 1 13.63 Km	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL
	CRMC Building CCC Building MCC Building PLC SCADA Trenchless Work	0 0 1	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL
	CRMC Building CCC Building MCC Building PLC SCADA Trenchless Work HDPE Pipes	2 0 0 1 13.63 Km	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL
	CRMC Building CCC Building MCC Building PLC SCADA Trenchless Work HDPE Pipes	2 0 0 1 13.63 Km	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL
	CRMC Building CCC Building MCC Building PLC SCADA Trenchless Work HDPE Pipes RCC Pipes	2 0 0 1 13.63 Km	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL
	CRMC Building CCC Building MCC Building PLC SCADA Trenchless Work HDPE Pipes	2 0 0 1 13.63 Km	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL
	CRMC Building CCC Building MCC Building PLC SCADA Trenchless Work HDPE Pipes RCC Pipes	2 0 0 1 13.63 Km	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL
	CRMC Building CCC Building MCC Building PLC SCADA Trenchless Work HDPE Pipes RCC Pipes	2 0 0 1 13.63 Km	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL c) Testing: NIL d) Commissioning: NIL c) Testing: NIL c) Testing: NIL
	CRMC Building CCC Building MCC Building PLC SCADA Trenchless Work HDPE Pipes RCC Pipes MS Pipes	2 0 0 1 13.63 Km	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL
Contract description	CRMC Building CCC Building MCC Building PLC SCADA Trenchless Work HDPE Pipes RCC Pipes MS Pipes	2 0 0 1 13.63 Km	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL
Contract description	CRMC Building CCC Building MCC Building PLC SCADA Trenchless Work HDPE Pipes RCC Pipes MS Pipes Cumulative Progress	2 0 0 1 13.63 Km 2.55 Km	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL
	CRMC Building CCC Building MCC Building PLC SCADA Trenchless Work HDPE Pipes RCC Pipes MS Pipes Cumulative Progress	2 0 0 1 13.63 Km	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL
Package no - RSTDIP/MKN	CRMC Building CCC Building MCC Building PLC SCADA Trenchless Work HDPE Pipes RCC Pipes MS Pipes Cumulative Progress Waste Water	2 0 0 1 13.63 Km 2.55 Km 0.06 km	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL
	CRMC Building CCC Building MCC Building PLC SCADA Trenchless Work HDPE Pipes RCC Pipes MS Pipes Cumulative Progress Waste Water Item	2 0 0 1 13.63 Km 2.55 Km 0.06 km of works up to 30.09.2 own: Makrana Scope	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL
Package no - RSTDIP/MKN	CRMC Building CCC Building MCC Building PLC SCADA Trenchless Work HDPE Pipes RCC Pipes MS Pipes Cumulative Progress Waste Water	2 0 0 1 13.63 Km 2.55 Km 0.06 km	a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL c) Testing: NIL d) Commissioning: NIL a) Supply: NIL b) Laid:-NIL c) Testing: NIL d) Commissioning: NIL

Contract description	Cumulative Progress	of works up to 30.09.2	2021
Works under package-	- Camalativo i rogioco		GA of inlet chamber fine bar screen
Construction of Works of			and mechanical grid separator
Providing Sewer Network			approved on dated 24.9.2021
with House sewer			Instrumentation drawings submitted
connections along with			by contractor on dated 24.9.2021
construction of Sewage			GA Drawings of sludge storage yard
Treatment Plant & Sewage			submitted by contractor on dated
pumping Station and all			24.9.2021
allied Works and operation		SPS-1: 2.3 MLD	Designs & Drawings is in progress
services of the entire system		(Jhalana Road)	Boolgho & Brawings to in progress
for 10 years at Makrana	SPS	SPS-2: 1.80 MLD	Designs & Drawings is in progress
		(Matabhar Road)	2 congres at 2 comminge to mit progress
Name of Contractor- M/s.	Lateral Sewer (upto	90.616 Km	a) Supply: 12 Km (200 mm DWC)
Larsen & Turbo Limited	dia 315)		b) Laid:-3.927 Km (200 mm DWC)
			c) Testing: 1.405 Km
Contract toma Basina			d) Deflection Test: NIL
Contract type- Design,			e) Commissioning: NIL
Build and Operate	Outfall (above dia	4.422 Km	a) Supply: NIL
Date of Start- 18.5.2021	315)		b) Laid:-NIL
Date 01 Start- 10.5.2021			c) Testing: NIL
Cumulative Financial			d) Commissioning: NIL
Progress- NIL	PVC-U Pipe (110 &	89.0 Km	a) Supply: 16.2 Km (110 mm)
Cumulative Physical	160 mm dia)		1 km(160 mm)
Progress- NIL			b) Laid:- NIL
			c)Testing: NIL
Stipulated Date of	Manholes (All	6806 Nos.	d) Commissioning: NIL
completion - 16.5.2024	Manholes (All types)	0000 NOS.	a) Supply: 246 nos b) Installation: 47 Nos.
	types)		c) Testing: NIL
			d) Commissioning: NIL
	Inspection Chamber	8900 Nos.	a) Supply: 436 nos
	(All types)	0000 1100.	b) Installation:-NIL
	(/ 1) [20]		c) Testing: NIL
			d) Commissioning: NIL
	Population	53777	-
	benefitted due to		
	commissioned		
	For Road Cutting & R		
	Item Description	Scope of Work	Progress made so far
	Road Cutting	a) CC: Km	• CC-0.114 Km
		b) BT: Km	• BT-0 Km
		c) Kuchha/WMM: Km	Kuccha/WMM: -3.813 Km
	Road Restoration	a) CC: Km	a) CC:
		b) BT: Km	0.0 km (upto PCC)
		c) Kuchha/WMM: Km	0.0 km (upto CC)
			b) BT:
			0.0 km (upto WMM)
			0.0 km (upto BT)
			c) Kuccha/WMM: 3.813 km
	Building and Miscella	neous work	

Contract description	Cumulative Progress	Cumulative Progress of works up to 30.09.2021		
	Item Description	Scope of Work	Progress made so far	
	CRMC Building	1	Existing structure dismantled by Nagar parishad and directed to contractor for submission of design & drawings.	
	CCC Building	-	-	
	MCC Building	-	-	
	PLC SCADA	-	-	
	Trenchless Work			
	HDPE Pipes	11.610 Km	a) Supply: 0 km	
			b) Laid:-0 km	
			c) Testing: NIL	
			d) 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	O	f when 4- 20 00	0004	

Contract description Cumulative Progress of works up to 30.09.2021

Town: Khetri

Package	no
RSTDIP/KTR/03	

Works under package-Construction of Works of Water Supply Production and Distribution Network Improvements with house service connections nonrevenue water reduction and continuous water supply Providing Sewer and 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

Water Supply		
Item	Scope	Progress
Total distribution	48.28 km	a) Supply: 8.932 Km
network		b) Laid:- 2.783 Km
		c) Testing: 0.0 Km
		d) Commissioning: 0.0 km
HDPE Pipe (Dia.	-	a) Supply: 0.0 Km
20,25 & 32 mm)		b) Laid:- 0.0 Km
		c) Testing: 0.0 Km
		d) Commissioning: 0.0 km
DI Pipe K7	44.113 Km	a) Supply: 8.932 Km
		b) Laid:-2.783 km
		c) Hydro Testing: 0.0 km
		d) Commissioning: 0.0 km
DI Pipe K9	4.265 km	a) Supply:0 Km
		b) Laid:-0 Km
		c) Hydro Testing: 0 Km
		d) Commissioning: 0 km
House Service	4400 Nos	a) Laying/Installation:-0 Nos.
Connection		b) Testing: 0 Nos.
		c) Commissioning: NIL
Domestic Water	4400 Nos	a) Supply: NIL
Meter		b) Installation:-NIL
		c) Testing: NIL
		d) Commissioning: NIL
Metering	EMFM-17 nos.	a) Supply: NIL
		b) Installation:-NIL
		c) Testing: NIL

Cumulative	Contract description	Cumulativa Bragraga	of works up to 20 00	0024
Progress - 3.21 % BFM - 13 nos. a) Supply: NIL b) InstallationNIL c) Testing: NIL Pressure 28 Nos. a) Supply: NIL b) InstallationNIL c) Testing: NIL c) Testing: A ST Km c) Testing: 4.317 Km c) Testing: 0 Tes	Contract description	- Cumulative Progress	UI WUIKS UP IU 30.09.2	
Distallation			DEM 40	,
Commutative	Progress- 3.21 %		BFIVI - 13 nos.	
Pressure 28 Nos. 3 Supply: NIL Pressure 28 Nos. 3 Supply: NIL Distribution 20 03 2024	Ourselative Blooming			,
Pressure	J			
No. of DMAs	Progress- 11.76 %			
No. of DMAs		1	28 Nos.	
No. of DMAs		Transmitters		
No. of DMAs	completion – 20.03.2024			
Pump House 2 nos. CWR (500 KI) 1 nos. -				d) Commissioning: NIL
CWR (500 KI)				-
Rehab work (WTP,PH, CWR, OHSR etc.)				-
(WTP,PH, CWR, OHSR etc.) 18917 souls Population benefitted due to commissioned 18917 souls Waste Water STP (1 nos.) 3.15 MLD STP (1 nos.) 30.994 Km a) Supply: 10.530 Km b) Laid:-6.142 Km c) Testing: 4.317 Km d) Deflection Test: 0 Km d) Commissioning: 0 km Outfall (above dia 315) 2.740 Km a) Supply: 1,445 km b) Laid:-0 km c) Testing: 0 km d) Commissioning: 0 km d) Commissioning: 0 km e) Testing: 0 km d) Commissioning: 0 km for middle 45.0 Km a) Supply: 10.002 Km b) Laid:-0.122 Km c) Testing: 0 Km d) Commissioning: NIL d) Commissioning: NIL Manholes (All types) a) Supply: 164 nos b) Installation:-159 Nos. c). Testing: 0 Nos. c). Testing: 0 Nos. d) Commissioning: 0 nos. Inspection Chamber 4500 Nos. a) Supply: 87 nos b) Installation:-32 Nos. c) Testing: 0 Nos. d) Commissioning: NIL Population benefitted due to commissioned Except of Work Progress made so far Road Cutting Restoration Scope of Work BT-0.161 Km BT-0.161 Km Except of CC: 0.0 km (up			1	-
OHSR etc.)		Rehab work	OHSR/GLSR-07 nos.	
Population benefitted due to commissioned Waste Water		(WTP,PH, CWR,		
Denefitted due to commissioned Waste Water		OHSR etc.)		
Commissioned Waste Water		Population	18917 souls	
Waste Water STP (1 nos.) 3.15 MLD -		benefitted due to		
STP (1 nos.) 3.15 MLD - Lateral Sewer (upto dia 315) 30.994 Km a) Supply: 10.530 Km b) Laid:-6.142 Km c) Testing: 4.317 Km d) Deflection Test: 0 Km d) Commissioning: 0 km d) Commissioning: 0 km e) Laid:-0 km b) Laid:-0 km e) Laid:-0				
Lateral Sewer (upto dia 315) 30.994 Km a) Supply: 10.530 Km b) Laid:-6.142 Km c) Testing: 4.317 Km d) Deflection Test: 0 Km d) Commissioning: 0 km s) Laid:-0 km b) Laid:-0 km d) Commissioning: 0 km d) Commissioning: NIL side of the commissioning: NIL side of the commissioning: 0 km d) Commissioning: NIL side of the commissioning: 0 km d) Commissioning: 0 km d		Waste Water		
dia 315) b) Laid:-6.142 Km c) Testing: 4.317 Km d) Deflection Test: 0 Km d) Deflection Test: 0 Km d) Commissioning: 0 km a) Supply: 1.445 km b) Laid:-0 km c) Testing: 0 km d) Commissioning: NIL Manholes (All types) d) Commissioning: NIL Manholes (All types) d) Commissioning: 0 km d) Commiss		STP (1 nos.)	3.15 MLD	-
C) Testing: 4.317 Km d) Deflection Test: 0 Km d) Deflection Test: 0 Km d) Deflection Test: 0 Km d) Commissioning: 0 km d) Commissioning: 0 km d) Laid:-0 km d) Laid:-0 km d) Laid:-0 km d) Commissioning: 0 km d) Commissioning: 0 km d) Commissioning: 0 km d) Commissioning: 0 km d) Laid:-0.122 Km d) Commissioning: 0 km d) Commissioning: NIL d) Laid:-0.122 km d) Commissioning: NIL d) Commissioning: NIL d) Commissioning: 0 km d) Co		Lateral Sewer (upto	30.994 Km	
Cutfall (above dia 315)		dia 315)		b) Laid:-6.142 Km
Outfall (above dia 3.15)				c) Testing: 4.317 Km
Outfall (above dia 315)				d) Deflection Test: 0 Km
315) b) Laid:- 0 km c) Testing: 0 km d) Commissioning: 0 km d) Commissioning: 0 km d) Commissioning: 0 km d) Commissioning: 0 km d) Laid:-0.122 km d) Commissioning: NIL d) Commissioning: NIL d) Commissioning: NIL d) Commissioning: NIL d) Commissioning: 0 nos. d) Commissioning: NIL d) Com				d) Commissioning: 0 km
C) Testing: 0 km d) Commissioning: 0 km d) Commissioning: 0 km d) Commissioning: 0 km d) Laid:-0.122 Km d) Laid:-0.122 Km c) Testing: 0 Km d) Commissioning: NIL d) Laid:-0.122 Km d) Laid:-0.1222 Km d) Laid:-0.1222 Km d) Laid:-0.1222 Km d) Laid:		Outfall (above dia	2.740 Km	a) Supply: 1.445 km
Description Scope of Work Progress made so far		315)		
PVC-U Pipe (110 & 45.0 Km a) Supply: 10.002 Km b) Laid:-0.122 Km c) Testing: 0 Km d) Commissioning: NIL				
160 mm dia) b) Laid:-0.122 Km c) Testing: 0 Km d) Commissioning: NIL				
C) Testing: 0 Km d) Commissioning: NIL			45.0 Km	
Manholes (All types) 2231 Nos. a) Supply: 164 nos b) Installation:-159 Nos. c).Testing: 0 Nos. d) Commissioning: 0 nos. d) Commissioning: 0 nos. a) Supply: 87 nos b) Installation:-32 Nos. c) Testing: 0 Nos. d) Commissioning: NIL Population benefitted due to commissioned 18917 souls benefitted due to commissioned For Road Cutting & Restoration- Item Description Scope of Work Progress made so far e) BT: 10.955 Km e) BT: 0.161 Km e) Kuccha/WMM: -2.042 Km a) CC: Mm b) BT: Km c) Kuchha: Km c) Kuchha: Km d) CC: b) BT: b) BT: c) O.0 km (upto PCC) c) O.0 km (upto CC) b) BT: c) O.0 km (upto CC)		160 mm dia)		
Manholes (All types) 2231 Nos. a) Supply: 164 nos b) Installation:-159 Nos. c).Testing: 0 Nos. d) Commissioning: 0 nos.				
types) b) Installation:-159 Nos. c).Testing: 0 Nos. d) Commissioning: 0 nos. Inspection Chamber (All types) 4500 Nos. a) Supply: 87 nos b) Installation:-32 Nos. c) Testing: 0 Nos. d) Commissioning: NIL Population benefitted due to commissioned For Road Cutting & Restoration- Item Description Road Cutting a) CC: 21.483 Km b) BT: 10.955 Km c) Kuchha/WMM: Km Road Restoration Road Restoration BT-0.161 Km c) Kuchha/WMM: Km c) Kuchha/WMM: -2.042 Km a) CC: 0.0 km (upto PCC) 0.0 km (upto PCC) 0.0 km (upto CC) b) BT:				
c.).Testing: 0 Nos. d) Commissioning: 0 nos. Inspection Chamber (All types) Inspection Chamber (All Commissioning: 0 nos. Inspection Chamber (All			2231 Nos.	
d) Commissioning: 0 nos.		types)		,
Inspection Chamber (All types) 4500 Nos. a) Supply: 87 nos b) Installation:-32 Nos. c) Testing: 0 Nos. d) Commissioning: NIL Population benefitted due to commissioned For Road Cutting & Restoration- Item Description Road Cutting a) CC: 21.483 Km b) BT: 10.955 Km c) Kuchha/WMM: Km Road Restoration Road Restoration Broad Restoration A) CC: Km b) BT: Km c) Kuchha: Km A) CC: 0.0 km (upto PCC) 0.0 km (upto CC) b) BT:				
(All types) b) Installation:-32 Nos. c) Testing: 0 Nos. d) Commissioning: NIL Population benefitted due to commissioned For Road Cutting & Restoration- Item Description Road Cutting a) CC: 21.483 Km b) BT: 10.955 Km c) Kuchha/WMM: Km Road Restoration a) CC: Km b) BT: Km c) Kuchha: Km b) Installation:-32 Nos. c) Testing: 0 Nos. d) Commissioning: NIL Progress made so far • CC-6.748 Km • BT-0.161 Km • Kuccha/WMM: -2.042 Km a) CC: 0.0 km (upto PCC) 0.0 km (upto PCC) 0.0 km (upto CC) b) BT:				
c) Testing: 0 Nos. d) Commissioning: NIL Population benefitted due to commissioned For Road Cutting & Restoration- Item Description Road Cutting a) CC: 21.483 Km b) BT: 10.955 Km c) Kuchha/WMM: Km Road Restoration Road Restoration a) CC: Km b) BT: Km c) Kuchha: Km c) Kuchha: Km c) Kuchha: Km c) Kuchha: Km			4500 Nos.	
Depulation benefitted due to commissioned Scope of Work Progress made so far		(All types)		
Population benefitted due to commissioned 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 Road Restoration a) CC: Km b) BT: Km c) Kuchha: Km c) Kuchha: Km d) BT: CC: 0.0 km (upto PCC) 0.0 km (upto CC) b) BT:				
benefitted due to commissioned 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 b) BT: 10.955 Km c) Kuchha/WMM: Km Example 10.00 km (upto PCC) C) Kuchha: Km C) Kuchh				d) Commissioning: NIL
Commissioned 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 BT-0.161 Km Example 10.00 km (upto PCC) Commissioned For Road Cutting & Restoration CC: 21.483 Km b) BT: 10.955 Km c) Kuchha/WMM: Without with a commissioned CC-6.748 Km b) BT: 0.0161 Km c) Kuchha: Km CC-6.748 Km c) K			18917 souls	
For Road Cutting & Restoration- Item Description Scope of Work Road Cutting a) CC: 21.483 Km b) BT: 10.955 Km c) Kuchha/WMM: Km Road Restoration a) CC: Km b) BT: Km c) Kuchha: Km Road Restoration c) Kuchha: Km Road Restoration b) BT: Km c) Kuchha: Km c) Kuchha: Km c) Kuchha: Km				
Road Cutting	<u> </u>			
Road Cutting				
b) BT: 10.955 Km c) Kuchha/WMM: Km Road Restoration a) CC: Km b) BT: Km c) Kuchha: Km BT-0.161 Km • Kuccha/WMM: -2.042 Km a) CC: 0.0 km (upto PCC) 0.0 km (upto CC) b) BT:				
c) Kuchha/WMM: Km Road Restoration a) CC: Km b) BT: Km c) Kuchha: Km e Kuccha/WMM: -2.042 Km a) CC: 0.0 km (upto PCC) 0.0 km (upto CC) b) BT:		Road Cutting		
Road Restoration a) CC: Km b) BT: Km c) Kuchha: Km a) CC: 0.0 km (upto PCC) 0.0 km (upto CC) b) BT:				
Road Restoration a) CC: Km b) BT: Km c) Kuchha: Km a) CC: 0.0 km (upto PCC) 0.0 km (upto CC) b) BT:			c) Kuchha/WMM: Km	Kuccha/WMM: -2.042 Km
b) BT: Km		Road Restoration	a) CC: Km	
c) Kuchha: Km 0.0 km (upto CC) b) BT:				
b) BT:				
			, i	
				0.0 km (upto WMM)

Contract description	Cumulative Progress	Cumulative Progress of works up to 30.09.2021			
•			0.0 km (upto BT)		
			a) Karahhar 0 000 Km		
			c) Kuchha: 2.033 Km		
	Remark	1.681 km of CC cu sewer work.	itting is for water supply & 5.067 km for		
	Building and Miscell	aneous work			
	Item Description	Scope of Work	Progress made so far		
	CRMC Building	1	-		
	CCC Building	1	-		
	MCC Building	1	-		
	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	s of works up to 30.09	.2021		

Town: Mandawa

Package RSTDIP/MDW/03

Works under package-Construction of Works of Water Supply Production and Distribution Network Improvements with house service connections nonrevenue water reduction and continuous water supply Providing and 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 Mandawa.

Name of Contractor- M/s. LNA-R & B (JV), Jaipur

Contract type- Design, **Build and Operate**

Date of Start- 22.03.2021

Cumulative **Financial Progress-** 4.85 %

1	water	Su	ρĮ	ріу

Item	Scope	Progress	
Total distribution	116.82 km	a) Supply: 68.781 Km	
network		b) Laid:- 29.521 Km	
		c) Testing: 0.0 Km	
		d) Commissioning: 0.0 km	
HDPE Pipe (75 mm	108.40 km	a) Supply: 68.781 Km	
to 250 mm dia.)		b) Laid:- 29.219 Km	
		c) Testing: 0.0 Km	
		d) Commissioning: 0.0 km	
DI Pipe K7 (100	6.62 Km	a) Supply: 0 Km	
mm to 350 mm)		b) Laid:-0 km	
		c) Hydro Testing: 0.0 km	
		d) Commissioning: 0.0 km	
DI Pipe K9 (100	1.89 km	a) Supply:0 Km	
mm to 150 mm dia)		b) Laid:-0 Km	
		c) Hydro Testing: 0 Km	
		d) Commissioning: 0 km	
House Service	5400 Nos	a) Laying/Installation:-0 Nos.	
Connection		b) Testing: 0 Nos.	
		c) Commissioning: NIL	
Domestic Water	5400 Nos	a) Supply: NIL	
Meter		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 30.09.2	2021
Cumulative Physical			c) Testing: NIL
Progress- 22.98 %			d) Commissioning: NIL
	Pressure	24 Nos.	a) Supply: NIL
Stipulated Date of	Transmitters	211100.	b) Installation:-NIL
completion - 20.03.2024	Transmitters		c) Testing: NIL
			d) Commissioning: NIL
	No. of DMAs	5 Nos.	-
	Pump House	1 nos.	-
	CWR (500 KI)	1 nos.	-
	Rehab work		-
	(WTP,PH, CWR,	_	
	OHSR etc.)	Pump House- 1 nos.	
	Orion etc.)	Fullip House- 1 110s.	
	Population	25610 souls	
	benefitted due to	20010 30013	
	commissioned		
	Waste Water		
	STP (2 nos.)	3.90 MLD and 0.40	
	211 (21100.)	MLD and 0.40	
	Lateral Sewer (upto	47.4 Km	a) Supply: 18.078 Km
	dia 315)		b) Laid:-11.272 Km
	,		c) Testing: 0.108 Km
			d) Deflection Test: 0 Km
			d) Commissioning: 0 km
	Outfall (RCC NP-4,	1.0 Km	a) Supply: 0 km
	400 mm dia)		b) Laid:- 0 km
	,		c) Testing: 0 km
			d) Commissioning: 0 km
	PVC-U Pipe (110 &	43.50 Km	a) Supply: 11.994 Km
	160 mm dia)		b) Laid:-0 Km
			c) Testing: 0 Km
			d) Commissioning: NIL
	Manholes (All	3664 Nos.	a) Supply: 652 nos
	types)		b) Installation:-427 Nos.
	1,4,5,5,		c).Testing: 0 Nos.
			d) Commissioning: 0 nos.
	Inspection Chamber	4350 Nos.	a) Supply: 976 nos
	(All types)	100011001	b) Installation:-174 Nos.
	(* 3) [2 2)		c) Testing: 0 Nos.
			d) Commissioning: NIL
	Population	25610 souls	, a, commonenting.
	benefitted due to	200.000.00	
	commissioned		
	For Road Cutting & R	estoration-	
	Item Description	Scope of Work	Progress made so far
	Road Cutting	a) CC: Km	• CC-7.192 Km
		b) BT: Km	• BT-0.164 Km
		c) Kuchha/WMM: Km	Kuccha/WMM: -33.058 Km
	Road Restoration	a) CC: Km	a) CC:
		b) BT: Km	0.0 km (upto PCC)
		c) Kuchha: Km	0.0 km (upto CC)
		,	b) BT:
			0.0 km (upto WBM)
			0.0 km (upto BT)
	L	l .	0.0 mm (apro D)

Contract description	Cumulative Progress of works up to 30.09.2021				
			c) Kuccha: 33.058 km		
	Building and Miscella	neous work			
	Item Description	Scope of Work	Progress made so far		
	CRMC Building	1	-		
	CCC Building	1	-		
	MCC Building	1	-		
	PLC SCADA	1	-		
	Trenchless Work				
	HDPE Pipes (PE-	5.0 Km	a) Supply: 0 km		
	100 PN-6, 250 mm		b) Laid:-0 km		
	to 500 mm dia)		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 occured 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.	Name of	Change in	Scope	Change ir	Location
No.	Town	Original scope as per Updated IEE	Change in scope	Original location As	Change in location
		Opuated ILL		per Draft IEE	location
1.	Abu Road	-	-	WTP – 10 MLD, PHED headworks, behind ITI	WTP – 10 MLD near cremation ground at Santpur
				College, Santpur	
		-	-	CWR (600 KL), existing campus of	CWR (600 KL), village Kue
				campus of PHED in Gandhi Nagar	
		No CRMC and CCC was included	A Consumer Relation Management Centre (CRMC) and Central Control Centre (CCC) proposed at Shantikunj Park	-	-

		Raw water main – 8.5 km	Raw water main – 9.512 Km	-	-
			* For Raw water mains, total 11.312 kms length was considered but out of this, 1.80 kms is not approved as this area falls under Railway crossing, National Highway and Forest area hence 9.512 km has been taken into consideration for raw water mains and all is approved		
		Clear water mains – 32.4 km	Length of Clear water mains has been increased from 32.4 km to 33.4 km	-	-
		Water Supply distribution Network- 134 km	Distribution network length increased from 134 km to 146.21 km		
		Sewage collection network including house connections – 105 km	Sewer network length has been decreased from 105 km to 100.90 kms	-	-
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 7.4 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	Total Length of Raw water mains has been decreased from 13.191 km to 2.132 km (from Angore Dam to		
		10.70 km (L) and 300mm (Dia.) from	WTP) as One raw water mains from		

		Kalkaji Dam to WTP	Kalkaji dam to		
			WTP has been dropped		
		CWR and pump house	CWR and pump	CWR & PH,	CWR & PH,
		in Kalkaji HW,	house in Kalkaji	Existing PHED	Existing PHED
		Capacity-580 KL	HW, Capacity- 1450 KL	Campus, Rampura	Campus, Kalka Ji
		-	-	WTP, CWR	Additional land
				Pump house-	(pasture land)
				PHED Headwork,	adjacent to the existing Angor
				Angore	Headworks has
					been allotted
					for WTP, CWR Pump house
		Transmission mains -	Length of		T diffp floude
		35.62km	Transmission		
			mains has been decreased from		
			35.62 km to 22.84		
		Water Supply	km Water supply		
		Water Supply distribution network-	Water supply network length	-	-
		117.4 km	has been		
			increased from		
			117.4 km to 122.95 kms		
		Sewer collection	Sewer network	-	-
		network-93 km	length has been decreased from		
			93 km to 89 kms		
3	Laxmangarh	-	-	Master control	Master control
				center and consumer	centre and consumer
				relation	relation
				management	management
				center, Bad ke balaji PHED	centre in EE, PHED office
				campus	premises
		Water supply distribution networks	Distribution		
		distribution networks (162.64 Km) including	network length increased from		
		House service	162.64 km to		
4	Datangarh	connection of 12200 1. TESR - 470 KL	167.73 km 1. TESR - 300 KL		
4	Ratangarh	2. TESR- 270 KL	2. TESR - 300 KL	-	-
		3. TEER -240 KL	3. TEER -610 KL		
		4. TEER- 140 KL No CRMC reported in	4. TEER- 380 KL (CRMC-2 nos,)-	_	_
		Draft IEE	CRMC-1 at Nagar	_	_
			Palika Office		
			Campus CRMC-2 at		
			proposed SPS at		
			Main Ginani in		

	I	T			
			Kadwaria Bas		
			location added in		
			updated IEE	01115 (0100	0.115
5	Sardarshahar	-	-	CWR (2400	CWR- South
				KL)- North	west direction
				west corner of	in the campus
				the campus of	of PHED Office
				Public health	
				engineering	
				department	
				(PHED) at	
				Hanumangarh	
		20/		Road	
		Water supply	Length increased	=	=
		distribution networks -	from 193 km to		
		193 km	267.65 kms		
			(including 16.90		
			km of existing		
			pipelines of the		
			town)		
			Scope changed		
			due to new		
			developments		
			(colonies) in the		
			town		
		One CRMC building	One additional	-	Location of
		behind main building of	CRMC building,		CRMC-2
		PHED office	Fire station office		Changed within
			campus		existing PHED
		Carray Naturanta, CO long	Nativale lawsth		campus
		Sewer Networks- 68 km	Network length		
			decreased from		
6	Fatehpur		68 km to 59.4 km	CRMC- SPS	CRMC- In the
0	Fateripui	-	-		
				campus, behind Dholi	
				Sati temple	Municipality
				SPS (1.1	SPS-1.1 MLD:
				MLD): Near	Near Railway
				Railway	underpass
				underpass	(Khasra no.
				(Khasra no.	1806)
				1818)	/
				SPS (0.6	SPS (0.6
				MLD): Near	MLD): Khasra
				Fatima Masjid	no. 982,
				,	National
					Highway no.
					52, Jahanghir
					ki kui
7	Pratapgarh	Sewage collection	Network length	-	-
		network - 104.68 km	decreased from		
			104.68 km to		
	1	1	· · · · · · · · · · · · · · · · · · ·	i	i .

			102.09 km			
			102.03 KIII	STP (7 MLD)	STP (7 MLD)	
				near Mukti	near Kila Road,	
				Dham, village	near Jain	
				Talabkeda	Gausala	
		_	_	SPS (7 MLD)	SPS (7 MLD)	
				near Bhatpura	near Jain	
				Gate,	Gausala, Kila	
				Deepeshwar	road	
				Talab	1000	
		No manhole with	Newly added-	Manhole (0.10	Manhole (0.10	
		pumping was included	One manhole with	MLD) at Ward	MLD) at	
		1	pumping (MWP)	no. 19, , near	Manpur	
			0.10 MLD \ (Govt.	'	
				Secondary		
				School,		
				Gautam Nagar		
		No CRMC was included	1 CRMC has been	-	-	
			added at Nagar			
			Parishad Old			
			Office premises			
8	Banswara	No any Change in scope		No any change in location		
9	Didwana	No any Change in scope		No any change i	n location	
10	Khetri	Water Supply	Distribution	-	-	
		Distribution network-44	network length			
		km	increased from 44			
		Sewage collection	km to 48.28 km Sewer network			
		Sewage collection network – 34.06 km	length increased	-	-	
		Hetwork – 54.00 km	from 34.06 km to			
			34.45 km			
11	Kuchaman	Transmission Mains-8	Length of	-	-	
		Km	Transmission			
			mains has been			
			increased from 8			
			km to 8.65 km			
		Water Supply	Distribution	-	-	
		Distribution network-	network length			
		321 km	increased from			
			321 km to 332.41			
		Courses	kms			
		Sewage collection	Sewage collection	-	-	
	network Length: 160 km		network Length			
			has been decreased from			
			160 km to 152.56			
			Km			
12	Makrana	No any Change in scope		No any change in location		
13	Mandawa	Water Supply	Distribution	-	-	
		Distribution network-	network length			
		108.4km	increased from			
			108.4 km to			
			116.82 km			

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 from Central/State Archaeological Department etc. Status of environmental statutory requirements and their complainces 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 Archaeologi cal dept.	Permission for NH/Highways/ Railways for crossing	Labor License of contractor and Workmen Compensat ion (WC) Policy	Permissions for Road Cutting	Permission for utility shifting
	1	2	3	4	5	6	7	8	9
1.		Ratangarh Sewerage	Not required	Tree cutting is required in 2 STPs and CRMC sites, permission is under process	Not required	Applied for Railway crossing- Permission awaited No any NH/ Highway crossing is required	Labor License- Valid up to 31/12/2021 WC Policy- Valid up to 30/03/2022	Not required	No Utility shifting is required up to this reporting period
2.	RSTDIP/RTG- FTP-LXG/01	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	Labor License- Valid up to 31/12/2021 WC Policy- Valid up to 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 any Permission required for Railway Crossing/National/ State Highway crossing	Labor License- Valid up to 31/12/2021 WC Policy- Valid up to 30/03/2022	Not required	No Utility shifting is required up to this reporting period
4.	RSTDIP/SRD/ 01	Sardarshahar Water Supply	Not required	5 Trees cutting is required at	Not required	Permission received for	Labor License-	Not required	No Utility shifting is

S.N.	Package number	Name of Town and type of projects	Forest Clearance	Tree Cutting Permission	Permission from State/ National Archaeologi cal dept.	Permission for NH/Highways/ Railways for crossing	Labor License of contractor and Workmen Compensat ion (WC) Policy	Permissions for Road Cutting	Permission for utility shifting
		and Sewerage		CWR and CRMC site at PHED campus, permission is taken and attached in Appendix-3		Railway crossing No any NH/ Highway crossing is required	Valid up to 31/12/2021 WC Policy- Valid up to 30/03/2022		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 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 and Railway crossing - Permissions awaited	Labor License- Valid up to 31/12/2021 WC Policy- Valid up to 31/03/2022	Not required	No Utility shifting is required up to this reporting period
6.		Sirohi Water Supply and Sewerage	Not required	1 tree at STP (1.7 MLD) at Revdar Road- permission under process	Not required	No National Highway crossing and Railway Crossing permission is required	Labor License- Valid up to 31/12/2021 WC Policy- Valid up to 30/03/2022	Applied to PWD and Nagar Parishad for Road cutting Permission awaited	No Utility shifting is required up to this reporting period
7.	RSTDIP/PRT/ 01	Pratapgarh Sewerage	Not required	1 tree at STP site and 3 trees at CRMC sitespermission is taken and attached in	Not required	Applied for National Highway crossing-Permission awaited No Railway crossing is required	Labor License- Valid up to 31/12/2021 WC Policy- Valid up to	Road cutting permission for 3 roads received from PWD	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 Archaeologi cal dept.	Permission for NH/Highways/ Railways for crossing	Labor License of contractor and Workmen Compensat ion (WC) Policy	Permissions for Road Cutting	Permission for utility shifting
				Appendix-3			01/11/2021	Road cutting Permission required for another road cutting is awaited from PWD and RSRDC	
8.	RSTDIP/BNS/ 04	Banswara Water Supply and Sewerage	Not required	10 nos. of trees are required to be cut at WTP site at PHED campuspermission taken and attached in Appendix-3	Not required	No National Highway crossing and Railway Crossing permission is required	Labor License- Valid up to 31/12/2021 WC Policy- Applied	Applied to get permission from PWD, RSRDC and RVUNL for Road cutting - Permission awaited	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	Labor License- Valid up to 31/12/2021 WC Policy- Valid up to 30-03-2022	Letter Submitted as Per requirement	No Utility shifting is required up to this reporting period
10.	RSTDIP/LDN- DID-MKN/01	Ladnu Sewerage	Not required	To be assessed after SIP	Not required	To be assessed after SIP	Labor License- Valid up to 31/12/2021 WC Policy- Valid up to 30-03-2022	Not required	To be assessed after SIP

S.N.	Package number	Name of Town and type of projects	Forest Clearance	Tree Cutting Permission	Permission from State/ National Archaeologi cal dept.	Permission for NH/Highways/ Railways for crossing	Labor License of contractor and Workmen Compensat ion (WC) Policy	Permissions for Road Cutting	Permission for utility shifting
11.		Didwana Sewerage	Not required	Presently no tree cutting required	Not required	Presently Not required	Labor License- Valid up to 31/12/2021 WC Policy- Applied	Not required	To be assessed after SIP
12.		Makrana Sewerage	Not required	Presently no tree cutting required	Not required	Presently Not required	Labor License- Valid up to 31/12/2021 WC Policy- Applied	Not required	To be assessed after SIP
13.	RSTDIP/KMN/ 02	Kuchaman Water Supply and Sewerage	Not required	Presently no tree cutting required	Not required	Presently Not required	Labor License- Valid up to 31/12/2021 WC Policy- Applied	Not required	To be assessed after SIP
14.	RSTDIP/MDW /03	Mandawa Water Supply and Sewerage	Not required	Presently no tree cutting required	Not required	Presently Not required	Labor License- Valid up to 31/12/2021 WC Policy- Valid up to 30-03-2022	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 Construc	tion			,
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 30.01.2026 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 12.02.2021 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
5	Sardarshahar	3.40 MLD		STP North Campus	from 15.10.2020 to 30.09.2025 under Air Act and valid from 13.02.2021 to 31.01.2026 under Water Act
6	Sardarshahar	1.60 MLD		Near Ashok Circle in land of GVM	CTE is on hold due to land issue
7	Abu Road	6.9 MLD		Santpur	CTE issued for 2.3 MLD and 6.9 MLD STP and
8	Abu Road	2.3 MLD		Manpur near Hawai Patti	10 MLD WTP under Water Act and valid from 15.02.2021 to 31.01.2026
9	Abu Road		10 MLD	Santpur PHED campus	10.02.2021 to 01.01.2020
10	Sirohi	5 MLD		Near Nehru Nagar	CTE issued for 1.7 and 5.0 MLD STPs under
11	Sirohi	1.7 MLD		Near Revdar Road	Water Act and valid from 11.02.2021 to 31.01.2026
12	Sirohi		9 MLD	Angore PHED campus	CTE Issued Valid from 31.03.2021 to 28.02.2026
13	Banswara	9.6 MLD		At Udaipur Road	CTE issued and Valid from 08.07.2021 to 30.06.2026
14	Banswara		9.25 MLD	PHED AEN Campus	CTE has been applied in RSPCB on 08.09.2021
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	3.50 MLD		Vishwanathpura	CTE for 3.5 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
Upgrad	lation/Rehabilitati	on works			
23	Sardarshahar	5 MLD WSP		South campus	Shall be applied after design is finalized
24	Sardarshahar	2 MLD WSP		North Campus	Shall be applied after design is finalized
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

Table 7: Compliance of Clearance Conditions

Name of plant	Conditions of Clearance / Permission	Status of Compliance					
and locations							
A. RSPCB consen							
General conditions included in Consent to Establish of 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 dewatered & 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 dewatered & the treated sludge will be used as manure or will be disposed in a scientific manner.					
All STPs	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					
	That adequate measures shall be taken to	DBO contractor To be complied- Adequate measures					
	avoid foul odour during treatment and disposal of sewage and sludge.	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 SPEC	CIFIC CONDITIONS FOR BELOW MENTIONED	-					
2.3 MLD STP,	That fee for this consent to establish has	Noted and shall be complied if there					
Sardarshahar	been deposited on the basis of estimated	is any change in project cost-					
2.3 MLD STP,	That fee for this consent to establish has	Noted and shall be complied if there					

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

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
and locations	Control of Pollution), Act, 1981 for D.G. Set	DG set- presently DG set is not
5.5 MLD STP, Ladnu	of 365 KVA 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	being installed 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 condition	s included in Consent to Establish of 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
All WTPs	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 That the back-wash water shall be treated	Complied- The entire process water shall be re-circulated with the processes through proposed settling tanks, no any discharge from WTP shall be done Complied- The entire process water

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
and locations	through adequately design treatment system and should be completely recycled into the process thus maintaining zero discharge inside and outside the premises That the domestic effluent shall be disposed off in soak pits through properly designed septic tanks	shall be re-circulated with the processes through proposed settling tanks, no any discharge from WTP shall be done 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	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 That this consent is only for environment	Noted Noted
	purpose not be liable for any other purpose. That unit shall comply with standards, with	
	respect to drinking water, as prescribed by the Bureau of Indian Standards in IS 10500-2012 as amended till date.	Design standards of WTP are as per applicable norms of CPHEEO
	That the unit shall apply for renewal of consent at least 120 days in advance prior to expiry date of this consent letter else additional fee shall have to be deposited in accordance with the Rajasthan Water & Air	Noted and shall be complied with

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
and locations	(Prevention & Control of Pollution)	
	(Amendment) Rules 2016	
TOWN WISE SPEC	CIFIC CONDITIONS FOR BELOW MENTIONED	
10 MLD WTP,	That this consent is being issued to EE,	Noted and shall be complied if there
Abu Road	PHED for Operating of Water Treatment	is any change in capacity or addition/
	Plant of capacity 10.0 MLD at Near Moksh	modification/ alteration/ or change in
	Dham, Santpur, Abu Road, Sirohi. In case of	product mix or process or raw
	any increase in capacity or addition/ modification/ alteration/ or change in product	material or fuel- not applicable at present
	mix or process or raw material or fuel, the	present
	project proponent is required to obtain fresh	
	consent to establish from the Board.	
	That this Consent to Establish is valid for	Noted and shall be complied if there
	Water Treatment Plant (with recycling	is any such change- not applicable at
	system) for a investment of 1247 lakh under	present
	'Orange' category. any change in production	
	& its capacity unit has to seek prior consent to establish/operate from the State Board	
	That this consent is subject to any order or	Noted
	direction from any Court of the competent	
	jurisdiction	
9 MLD WTP,	That this consent is being issued to EE,	Noted and shall be complied if there
Sirohi	PHED for Operating of Water Treatment	is any change in capacity or addition/
	Plant of capacity 9.0 MLD at near Angore Sirohi. In case of any increase in capacity or	modification/ alteration/ or change in product mix or process or raw
	addition/ modification/ alteration/ or change	material or fuel- not applicable at
	in product mix or process or raw material or	present
	fuel, the project proponent is required to	·
	obtain fresh consent to establish from the	
	Board.	
	That this Consent to Establish is valid for	Noted and shall be complied if there
	Water Treatment Plant (with recycling system) for a investment of Rs. 336.3 lakh	is any such change- not applicable at present
	under 'Orange' category. any change in	present
	production & its capacity unit has to seek	
	prior consent to establish/operate from the	
	State Board	
B. Tree cutting pe		Kindle aster Armer Pro O. S.
Office Premises and Bad ke Balaji	Tree Cutting permission given without any terms & condition.	Kindly refer Appendix 3 for copy of the same
Campus,	terms α containon.	uic sailic
Laxmangarh		
PHED Campus,	Number of new trees to be grown under	Complied- contractor has planted 50
Sardarshahar	Rule 24 J (2)- total 25 trees	trees in STP campus of
		Sardarshahar
	Mod of out trops that he was to	Only 2 trans and till are and off of
	Wood of cut trees shall be used for cremation and after planting 25 new trees on	Only 2 trees cut till now and efforts are being taken to save other trees.
	Government land/Public place, a physically	Wood of cut trees are kept at site
	verified report by Local revenue Officer	and shall be handed over to Nagar
	(Patwari) shall be submitted.	Palika, when all trees are cut as per
		design requirement

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
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 	No tree cutting done

COMPLIANCE STATUS WITH ENVIRONMENTAL LOAN COVENANTS

Table-8: Compliance with Environmental Loan Covenants

Section	Loan Covenants	Compliance Status	Action Required
LA. Schedule 4. E	xecution of Project		1 xoquii ou
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.	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.	Grievance Redress Mechanism is	Nil

Section	Loan Covenants	Compliance Status	Action Required
Counterpart Support	5. (c) As necessary, respective counterpart staff, land facilities, and implementation and monitoring of respective EMPs, RPs and RIPPs as applicable (including unforeseen expenses beyond the estimates), utility shifting, operations and maintenance of Project facilities, and general Project management expenses in a timely manner through approved annual budget allocations or other means; and	Being complied- annual budget for expenses for project management is being allocated by Government	Nil
	(d) Sufficient funds to satisfy the EA's liabilities arising from any Works, Goods and/or Consulting Services contract under the Project.	Being complied- sufficient budget is allocated by Government	Nil
Subproject Selection Criteria	6. The Borrower shall ensure or cause the EA to ensure that: (a) All Subprojects are selected and approved in accordance with the agreed Subproject Selection Criteria and approval process stipulated in the PAM;	Being complied- all Subprojects are selected and approved in accordance with the agreed Subproject Selection Criteria	Nil
	(b) All documents forming the basis for screening, selection and processing of Subprojects are made available to ADB upon request and are kept for such purposes for a minimum period of five years after submission of the Project completion report.	Being complied- all documents as required by ADB are being provided by PMU	Nil
Condition for award of contracts	11. The Borrower shall ensure, or cause the EA to ensure, that no Works contract is awarded which involves environmental impacts until the EA has: (a) Prepared, submitted and obtained final approval of the relevant IEE from ADB and the relevant forest and environment clearances from statutory authorities of the Borrower and the State as applicable;	Being Complied- all works are awarded after draft IEEs are approved by ADB, IEEs are being updated as per approved designs	Nil
	(b) Incorporated the relevant provisions from the respective EMP into the related Works contract;	Being Complied, IEE and EMP is part of works contracts	Nil
	(c) Prepared and submitted to ADB a groundwater sustainability report for each Subproject that involves ground water extraction.	Complied- Ground water sustainability report is included in IEEs, where ground water extraction is required	Nil
Safeguards- Environment	13. The Borrower shall ensure or cause the EA to ensure that the preparation, design, construction, implementation, operation and decommissioning of Subprojects and Project facilities comply with (a) all applicable laws and regulations of the Borrower and the State relating to environment, health, and safety; (b)	Being Complied- only category B projects are considered in RSTDSP, all the applicable laws and regulations are being complied, environmental	Nil

Section	Loan Covenants	Compliance Status	Action Required
	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.	safeguards as per EARF are being complied	
	17. Notwithstanding the stipulation that no Category A Subprojects under environment, involuntary resettlement or indigenous people, will be financed under the Project, in the unforeseen situation of change in categorization of a Subproject that is under implementation, to Category A, the Borrower shall ensure or cause the EA to ensure, in consultation with ADB that such Subproject shall be completed in full compliance of the ADB Safeguard Policy requirements and applicable laws and regulations of the Borrower and the State.	Being Complied, all sub-projects are under Category B and not fulfilling the criteria of Category A	Nil
Human and Financial Resources to Implement Safeguards Requirements	18. The Borrower shall ensure or cause the EA to ensure that all necessary budgetary and human resources to fully implement the EMPs, the RPs and any RIPPs (as applicable) are made available on a timely basis.	Being Complied- required budget and staff is provided in all project towns	Nil
Safeguards – Related Provisions in Bidding Documents and Works Contracts	19. The Borrower shall ensure or cause the EA to ensure that all bidding documents and contracts for Works contain provisions that require contractors to: (a) Comply with the measures and requirements relevant to the contractor set forth in the IEE, the EMP, the RP(s) and any RIPP, if any (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set out in a Safeguards Monitoring Report;	Being Complied- IEE and EMP is part of bid and contract documents of each project and being complied at site	Nil
	(b) Make available a budget for all such environmental and social measures;	Being complied- EMP cost is included in contract bids	Nil
	(c) Provide the EA with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, the RP/RIPP (as applicable);	Being Complied- any unanticipated environmental impacts are being reported to ADB through IEE updates, QPRs and SEMRs	Nil
	(d) Adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and	Being Complied- conditions of condition of roads, agricultural	Nil

Section	Loan Covenants	Compliance Status	Action Required
	construction; and	land and other infrastructure are being recorded before start of construction works	·
	(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 the relevant EMP, the RP or RIPP (as applicable) shall be reported to ADB	Inform to ADB about any breach of EMP, RP or RIPP
Prohibited List of Investments	21. The Borrower shall ensure or cause the EA to ensure that no proceeds of the Loan are used to finance any activity included in the list of prohibited investment activities	Complied- no 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	Being complied-HIV/AIDS awareness Training was carried out in Sardarshahar, Abu Road, Sirohi and Banswara towns. HIV/AIDS awareness programs for labor shall be conducted in other project towns in coming days. Being Complied-	Nil
	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	Project is implementing all statutory provisions on labor (including not employing or using	

Section	Loan Covenants	Compliance Status	Action Required
	termination in case of any breach of the stated provisions by the contractors.	children as labor, equal pay for equal work), health, safety, welfare, sanitation, and working conditions.	
Project Agreeme	nt. 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.	required insurances as per contract agreement	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 specialist and support staff of CMSC and PMCBC 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 6 towns (Ratangarh, Laxmangarh, Fatehpur, Sardarshahar, Abu Road and Sirohi) is submitted by contractor and approved. SEMPs form other contractors are under submission/review for approval. 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 subprojects are given in following **Table 9**, photographs of safeguard compliance is shown in **Appendix 1**, and environmental site visit checklists 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				BC: Pain	a Compli	St ed, TC: To		ompliance		IA: Not A	nnlicable				Respons ibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	Dility
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 multirows. 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.	STP with dense tree plantations	BC	BC	NA	ВС	BC	BC	BC	BC	BC	BC	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 		ВС	BC	BC	BC	BC	BC	BC	BC	BC	ВС	BC	ВС	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	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	TC	TC	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	from environmentally sensitive areas Reuse plan for treated	 BC 	• C • TC • BC • BC	NA	• C • TC • BC • BC	• C • TC • BC • BC	• C • TC • BC • BC	• C • TC • BC • C	• C • TC • BC • TC	• C • TC • BC	• C • TC • BC • BC	DBO Contract or/ PIU/ CMSC/P MCBC				

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored				BC: Boine	r Complia	St ed, TC: To		ompliance		NA: Not A	nnlicable				Respons ibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	ibility
 design: Locating components and facilities appropriately by avoiding sensitive locations like forests and protected areas (environmentally, socially, and archeologically). Treatment and reuse of sludge from treatment process; providing a covered shed of adequate space to air dry the processed sludge for at least 15 days at STPs Designing the entire system to maintain optimal flow and terminal pressure, and optimizing the overall energy usage Avoiding usage of asbestos containing materials Reducing the incidence of water borne diseases by providing 100% population including urban poor with potable water supplies Reuse of treated wastewater from STP for non-potable uses thereby reducing the load in freshwater resources Adopting a combined approach of sewerage system and faecal sludge and Septage management to cover 100% population of the town with safe collection, conveyance and treatment of sewage generated in the town Provision of appropriate personal protection equipment 	Energy efficient design ACM management plan FSSM plan for areas where sewerage networks are not feasible	• BC	• BC		• BC	• BC	• BC	• BC	• BC	• BC					• BC	
to the workers and staff 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	С	С	С	С	С	С	С	С	С	С	С	С	С	С	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	TC	TC	C Feasibili ty Report attached in IEE	NA	NA	NA	TC	TC	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 	Tube wells and open wells	NA	NA	BC	BC	BC	BC	NA	NA	NA	BC	BC	NA	NA	NA	PHED/PI U

									ompliance		NIA. NI 4 3		- \			Respons
		RTG	FTP	LXM	SRD	SHR	d, TC: To ABR	be Comp PRT	lied, C: Co	Mplied, KTR	NA: Not A	Applicable KMN	e) DID	MKR	LDN	ibility
in the state of th																
sanitation practices and its effect on groundwater quality Water Treatment Plant (WTP) - Inefficient treatment,	Design parameters of WTP	NA	NA	NA	NA	TC	ВС	NA	TC	NA	NA	NA	NA	NA	NA	DBO
treated water characteristic not satisfying the standards:	meeting with national standards	IVA	IVA	INA	INA		БС	INA		INA	INA	INA		INA	INA.	Contract or/
 Design treatment process that is suitable for raw water source characteristics duly considering the seasonal variation in quality if any Duly consider quality of ground water that will be supplemented for surface water supply variations 	Raw water quality test reports Treated water quality test reports															CMSC
• Treated water and supplied water at consumer end should meet the drinking water standards all times																
Water Treatment Plant (WTP) - Design to prevent	Design of WTP including	NA	NA	NA	NA	ВС	ВС	NA	BC	NA	NA	NA	NA	NA	NA	DBO
pollution due to waste water and sludge:	back wash water recycle	1471	'''		100		20			'''		101	101	""	'''	Contract
• Ensure that the following are included in the WTP design:	Sludge management from															or/PIU
• Back wash water reuse system and sludge recovery and	WTP															
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	Data in the same of OTD AVTD	DC	DC.	BC	DC.	DC.	D.C.	DC.	DC.	DC.	BC	DC.	DC.	BC	BC	DBO
 WTP, CWRs and STP - Hazardous/ harmful chemicals: Reduce the use of chemicals in the treatment process 	Detail design of STP, WTP and CWR	ВС	BC	ВС	BC	BC	ВС	BC	BC	BC	ВС	BC	BC	ВС	ВС	Contract
to the extent possible (water treatment); provide non-	Eye wash and shower															or/
chemical alternatives or easily recoverable and/or	facility included in STP															PMCBC
reusable chemicals or biocompatible alternatives.	design															CMSC
• Establish proper handling/ storage/ application system	Emergency response															
according to the relevant standards, safety precautions and prevent accidental release/spill	procedure for chemical hazard															
Provide leak/ spill detection, collection/ capture and	Ilazaiu															
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 Clear Water Reservoirs (CWRs) - Hazardous / harmful 	. Chloring bandling storage	NA	NA	TC	BC	BC	ВС	NA	BC	BC	BC	BC	NA	NA	NA	DBO
chemicals:	and safety plan	INA	11/7	'			ьс	14/7			50		INA	l INC	'''	Contract
• Establish proper handling / storage / application system																or/
according to the relevant standards, safety precautions	handling chlorine cylinders															PMCBC/
and prevent accidental release / spill	Training records															CMSC
• Provide ventilation, lighting, entry and exit facilities;	Emergency response plan															
visible and audible alarm facilities to alert																

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored			(E	BC: Being	Complie	St d, TC: To		ompliance		NA: Not A	npolicable)			Respons ibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
chemical/chlorine leak • Personal protection and safety equipment for the operators (masks, oxygen cylinders, gloves, etc.,) • Provide training to the staff in safe handling and application of chemicals, material safety, and standard operating procedures and emergency responses																
Develop emergency response procedures Source Treatment Plant (STP) Hazardous / hazardous	Detail design of CTD	DC.	DC.	NIA	P.C	DC.	DC.	P.C	TC	TC	TC	TC	TC	TC	TC	DPO
 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 	Eye wash and shower facility included in STP design Emergency response procedure for chemical hazard	BC	BC	NA	BC	BC	BC	BC	TC	TC	TC	TC	TC	TC	TC	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 in 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: 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	than 10 mg/l Total suspended Solids (TSS)- less than 20 mg/l Total nitrogen- less than 10 mg/l	BC	BC	NA	BC	BC	ВС	TC	TC	TC	TC	TC	TC	TC	TC	DBO Contract or/ PMCBC/ CMSC
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,	networks for domestic sewage Outlet parameters as per	BC	BC	NA	ВС	BC	BC	BC	BC	BC	BC	BC	ВС	ВС	TC	DBO Contract or and PIU / PMU

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored			(1	BC: Being	Complie	St d, TC: To		ompliance		NA: Not A	Applicable	e)			Respons ibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
no domestic wastewater from industrial units shall be allowed into municipal sewers • Ensure that there is no illegal discharge through manholes or inspection chambers • Conduct public awareness programs; in coordination																
 with RSPCB and CLC. Conduct regular wastewater quality monitoring (at inlet and at outlet of STP) to ensure that the treated 																
wastewater quality complies with the effluent standards																
Sewage Treatment Plant (STP)- Use of treated		• TC	• TC	NA		• TC	• TC		• TC			• TC	• TC	• TC	TC	DBO
wastewater for reuse applications:	effluent	• C	• C		• C	• C	• C	• C	• C	• C	• C	• C	• C	• C		Contract
Develop wastewater reuse plan for Town Town in consultation with CLC as per the Sewerage and Wastewater Policy, 2016. The Reuse Plan shall inter alia include the following:	Outlet parameters as per latest Govt. norms															or / PIU/CMS C/ PMCBC
• 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																
STP - Treated effluent discharge into water channel/drains and associated impacts on river water	Consent to Establish from RSPCB	• C	• C	NA	• C	• C	• C	• TC	• TC	• C	• C	• C	• C	• C	• C	Contract or/PIU
and downstream users:	• Reuse plan of treated	• TC	• TC			• TC	• TC	• TC	• TC • TC	• TC	• TC	• TC	• TC	• TC	• TC • TC	01/110
Obtain of consent of RSPCB for discharge of treated wastewater into drains	effluent • STP effluent- monitoring	• TC	TC		l	• TC	• TC	• TC		• TC	• TC		• TC	• TC	• TC	
Conduct a baseline water quality assessment of receiving water body	Water Quality monitoring 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	and the second s															
	Reuse plan for treated sludge	TC	TC	NA	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	DBO Contract or/PIU
 Prepare a studge 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 																<i>5171</i> 10

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored			/1	BC: Rein	r Complie	St d, TC: To		ompliance		NA: Not A	nnlicable	<u> </u>			Respons ibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
 Plan should clearly identify various potential uses and demand in Town and surroundings Establish usage limits, where required, (geographical / crops / type of application / type of soils etc.,); adopt international good practice suggested by agencies like World Health Organization (WHO), Food and Agricultural Organization (FAO) of the United Nations. Identify a landfill / suitable site for disposal of surplus dried sludge Monitor sludge quality during operation phase as per the Environmental Monitoring Plan, ensure that it meets the quality parameters established by FCO In case of sludge not meeting the quality parameters, it shall not be used as soil condition, and shall be disposed at appropriate disposal site (if it falls under hazardous category, it shall be disposed as per the 																
Hazardous Waste Management Rules, 2016)																
 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	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	Design of SPS covering all these parameters	С	С	NA	С	С	С	С	С	BC	BC	BC	ВС	BC	BC	DBO Contract or/PIU

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored					• "			ompliance							Respons
		RTG	FTP	LXM	SRD	SHR	d, TC: To I ABR	PRT	BNS	Mplied, N	MND	KMN) DID	MKR	LDN	ibility
 entre in the SPS premises Plantations should be provided if space available to reduce foul smell of sewer during operation No workers 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	С	С	NA	С	С	С	С	TC	TC	TC	TC	TC	TC	TC	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 			TC	NA	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	TC	DBO Contract or

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored			(E	3C: Beina	Complie	St d, TC: To		ompliance		IA: Not A	pplicable)			Respons ibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
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 • Ensure proper facilities for workers including showers, wash areas, toilets, drinking water, eating and resting places • Conduct regular health checks • Prepare Health and Safety Plan for FSSM																
Physical Cultural resource - Encroachment/ damage to protected monuments and chance finds: consult Department of Archaeology and Museums to obtain an expert assessment of the archaeological potential of the site; consider alternatives if the site is found to be of high risk; include state and local archaeological, cultural and historical authorities, and interest groups in consultation forums as project stakeholders so that their expertise can be made available; and develop a protocol for use by the construction contractors in conducting any excavation work, to ensure that any chance finds are recognized and measures are taken to ensure they are protected and conserved. This should involve: Having excavation observed by a person with archaeological field training; contractor should employee 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, and taking any	monuments	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contract or/ PIU/ CMSC/ PMCBC
action they require to ensure its removal or protection in situ Asbestos cement (AC) pipes in existing water supply system & Other locations: clearing, transfer and disposal; work in narrow streets, and interventions in	ACM plan covering all these requirements	TC	NA	TC	TC	TC	TC	NA	TC	TC	TC	TC	NA	NA	NA	DBO Contract or/PIU/
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																PMCBC/ CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored			(1	BC: Beind	ı Complie	St d, TC: To		ompliance		NA: Not A	npolicable	<u>.</u>			Respons ibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
 ensure safe movement of people and also to prevent unnecessary entry and to avoid accidental fall into open trenches Identify risk of intervention with existing AC pipes. If there is significant risk, implement the AMP strictly that includes identification of hazards, the use of proper safety gear and disposal methods. Maintain records of AC pipes as per the AMP Refer to the instructions of the Asbestos Expert 																
Asbestos materials in existing PHED campus- Health impacts due to air borne asbestos if handled unsafely, cut, drilled or broken into pieces: • Conduct risk assessment to determine extent of asbestos materials currently on-site • Coordinate and provide support to the asbestos management service provider on the requirement of sampling, testing and disposing existing asbestos materials • Ensure the selected area for temporary storage is suitable for safe storage of asbestos materials • Incorporate international and national standards considered in designing the temporary storage • Ensure that handling and disposal of asbestos materials are carried out by specially trained service provider/s following Government of India requirements, or in their absence, internationally recognized procedures	ACM plan covering all these requirements	TC	NA	TC	TC	TC	TC	NA	TC	TC	TC	TC	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	С	С	С	С	С	С	TC	TC	TC	TC	TC	TC	TC	TC	DBO Contract or CMSC and PMCBC

Table 9 B. Pre-Construction Phase

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored			(BC: Be	ing Com	plied, TC:			mpliance ed, C: Cor	mplied, N	A: Not Ap	plicable))			Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MNW	KMN	DID	MKR	LDN	
Compliance with environmental subproject	Compliance with environmental	С	С	С	С	С	С	С	С	С	С	С	С	С	С	DBO Contractor, PIU,
selection criteria - Environmental impacts due	subproject selection criteria															CMSC/PMCBC
to subproject:																
Compliance with environmental subproject																
selection criteria																
Environmental monitoring of baseline		С	С	С	С	C	С	С	C	C	C	C	С	C	C	DBO contractor
conditions of air, noise, water and soil - To	monitoring of ambient air, noise,															
establish base line environmental conditions:	water and soil conducted															
Environmental monitoring through NABL accredited																
laboratory																
	List of consents required as per	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO contractor/
noncompliance may attract legal actions Failure																PIU/Consultants
to obtain necessary consents Permits, NOCs																
etc. can result to design revisions and /or																

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored			(BC: Be	ing Com	olied TC:			mpliance		A: Not Ap	nlicable)				Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR		BNS	KTR	MNW	KMN		MKR	LDN	_
stoppage of works:		11.0			OILE	J.IIX	71311	1111	5.10	10.110		13000	5.5	IIII X	LDIV	
Obtain all consents, clearances (CTE/CTO from																
RSPCB), permits NOCs etc. before start of construction works																
• Ensure that all necessary approvals for construction to be obtained by contractor are in																
place before start of construction																
 Following consents are required- 																
 Tree cutting-local authority 																
 Storage, handling and transport of hazardous materials- RSPCB 																
 Sand mining, quarries, borrow areas- Department of mines and Geology 																
• Traffic diversion/road cutting- local authority, traffic police																
Acknowledge in writing and provide report on compliance all obtained consents, permits,																
clearance, NOCs etc. Include in detailed design																
drawings and documents all conditions and																
provisions; if necessary																
Utilities - Telephone lines, electric poles and	List of affected utilities	С	С	С	С	С	С	TC	TC	TC	TC	TC	TC	TC	TC	DBO Contractor in
wires, water lines within proposed project area:	Utilities contingency plan															collaboration with PIU
• Identify and include locations and operators of	Spoil management plan															and with approval of
these utilities in the detailed design documents to																PMU
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 Social and Cultural Resources - Ground	Chance finds protocol	С	С	С	С	С	С	С	С	С	С	С	С	С	С	DBO Contractor/
disturbance can uncover and damage	Chance inus protocol	C														CMSC and PIU
archaeological and historical remains:																CIVISC AND FIG
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																
Construction work camps, hot mix plants,	Location plan of Construction	С	С	С	С	С	С	TC	TC	TC	TC	TC	TC	TC	TC	DBO Contractor
stockpile areas, storage areas, and disposal																CMSC and PIU
areas Disruption to traffic flow and sensitive																
receptors:	areas, and disposal areas															
• Prioritize areas within or nearest possible vacant	Spoil management plan															
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			I		1						1	1		1		

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored			/DC: Da	ine Com	aliad TO			mpliance		IA. Nat Am	\				Responsibility
		RTG	FTP	LXM	Ing Com	SHR	ABR	PRT		Mplied, N	A: Not Ap		DID	MKR	LDN	-
o site shall be selected preferably from barren, infertile lands. In case agricultural land needs to be selected, written consent from landowners (not lessees) will be obtained; (b) debris disposal site shall be at least 200 m away from surface water bodies; (c) no residential areas shall be located within 50 m downwind side of the site; and (d) site is minimum 250 m away from sensitive locations like settlements, ponds/lakes or other water bodies.		KIG	FIF	LAW	SKD	SHK	ABR	FKI	BNS	KIK	MINAV	KWIN	DID	WIKK	LUN	
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.	procurement of construction materials	С	C	С	С	С	C	C	С	С	C	С	С	С	TC	DBO Contractor to prepare list of approved quarry sites and sources of materials with the approval of PIU
Consents, permits, clearances, NOCs, etcFailure 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		NA	NA	BC	TC	TC	TC	NA	TC	TC	NA	ТС	NA	NA	NA	DBO Contractor/PIU/ CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored			(BC: Be	ina Com	olied. TC		mpliance		A: Not Ap	policable)	1			Responsibility
		RTG	FTP	LXM	SRD	SHR	ABR	BNS	KTR	MNW	KMN	DID	MKR	LDN	_
management service provider on the requirement of sampling, testing and disposing existing asbestos material Coordinate and implement the the construction of the temporary storage per specification of the asbestos management service provider Provide support to the asbestos management service provider supervising the removal, transport, disposal and documentation of the asbestos materials Conduct awareness workshops and trainings to					- Onto	Gint		5.10				5.5			
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															

Table 9 C: Construction Phase

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored			(B0	C: Being C	omplied,		us of Cor		nplied, NA	\: Not Appl	icable)				Responsibility
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMŃ	DID	MKR	LDN	T
 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. 	contractor	O	O	С	С	С	С	С	С	С	С	С	С	С	С	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;	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	С	С	С	С	С	С	С	BC	TC	TC	TC	TC	TC	TC	DBO Contractor/ PIU/ CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored			(5.4				us of Cor								Responsibility
		RTG	FTH	LXM	C: Being Co	SHR	ABR	PRT	BNS	MPIIEG, NA	Not App	KMN	DID	MKR	LDN	_
prior to leaving construction site		RIG	FIR	LAW	טאט	эпк	ADK	PKI	DINO	NIK	MIND	KIVIN	טוט	IVINK	LDN	
Don't allow access in the work area except																
workers to limit soil disturbance and prevent																
access by barricading and security personnel																
• Fit all heavy equipment and machinery with air																
pollution control devices which are operating																
correctly																
contractor's vehicles and equipment should																
compulsorily have PUC and submit to PIU before deployment at site																
Obtain, CTE and CTO for batching plant, hot mix																
plant, crushers and DG set etc. if specifically																
established for this project.																
If contractor procures any material (such as ready																
mix concrete, asphalt/macadam, aggregates etc.,)																
from third party agencies, contractor shall ensure																
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/	Spoils management	С	С	С	С	С	С	TC	TC	TC	TC	TC	TC	TC	TC	DBO Contractor/
Mobilization of settled silt materials, and	plan															PIU/ CMSC/ PMCBC
chemical contamination from fuels and																
lubricants during installation of pipelines can	moposition of aramage															
contaminate nearby surface water quality:Prepare and implement a spoils management	pattern at stockyard															
plan																
Avoid stockpiling of earth fill especially during the	preparedness plan															
monsoon season unless covered by tarpaulins or	preparedness plan															
plastic sheets;	proposition prosition															
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														1		
excavation works (pipe laying) during monsoon														1		
season to avoid any water logging and accident														1		
due to it																
• If open trenches are not avoidable during monsoon, keep ready all the mitigations																
measures to avoid water logging such as														1		
dewatering pumps and sufficient pipes, traffic														1		
assistance, barricades etc.														1		
 Inspect and verify all the emergency measures 			1		1						1	1	1	1		

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored			(BC	C: Being Co	omnlied .		us of Cor		nnlied NA	· Not Δnn	licable)				Responsibility
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
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; 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		NA	NA	NA	NA	TC	TC	NA	TC	NA	NA	NA	NA	NA	NA	DBO contractor/ PIU/
	 Work schedule 															CMSC/ PMCBC
	 Safety arrangements Water quality monitoring 															
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 ofter completion at least to																
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																
Noise Levels - Increase in noise level due to	Use of PPEs to reduce	С	С	С	С	С	С	С	С	С	С	С	С	С	TC	DBO Contractor/
earth-moving and excavation equipment, and the	impact of sound on															PIU/ CMSC
transportation of equipment, materials, and	workers															
	Checking of vehicle															
Plan activities in consultation with PIU/Consultant so that activities with the greatest potential to	silencers, noise- reducing mufflers															
generate noise are conducted during periods of the day which will result in least disturbance;	 Noise quality monitoring at sites 															
Horns should not be used unless it is necessary	og at oitoo													1		
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																

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored			/B <i>C</i>	Poing C	amplied '		us of Cor		anlind N/	A: Not Ann	licable)				Responsibility
		RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	-
barriers the sound impact to surrounding sensitive receptor; and					<u> </u>	<u> </u>	7.5.0									
Maintain maximum sound levels not exceeding 80 decibels (dB A) when measured at a distance																
of 10 m or more from the vehicle/s.																
Periodical monitoring of noise quality as per EMP																
Landscape and aesthetics - Impacts due to excess excavated earth, excess construction materials, and solid waste such as removed concrete, wood, packaging materials, empty	plan • Solid waste	С	С	С	С	С	С	BC	BC	TC	TC	BC	BC	BC	TC	DBO Contractor/ PIU/ CMSC
containers, spoils, oils, lubricants, and other similar items:																
Prepare and implement spoils management planAvoid 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 assets.																
 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																
Existing Infrastructure and Facilities - Disruption	List of affected utilities	С	С	С	С	С	С	С	С	С	С	С	С	С	TC	DBO Contractor/
of service and damage to existing infrastructure at specified project location: • Obtain from PIU the list of affected utilities and	and contingency plan to restore if damaged															PIU/ CMSC
operators if any;	Site observations															
Prepare a contingency plan to include actions to be done in case of unintentional interruption of service																
Ecological Resources - Terrestrial - Loss of	Tree cutting list	С	С	С	С	С	С	С	С	BC	ВС	BC	ВС	BC	TC	DBO Contractor/
vegetation and tree cover:Minimize removal of vegetation and disallow	Tree cutting permission															PIU/ CMSC
cutting of trees;If tree-removal will be required, obtain tree-cutting permit from the concerned department; and	Compensatory plantation															
Plant 3 native trees for every one that is removed																
Land Use- Environmental Issues due to land use	Land documents of sites	С	С	С	С	С	С	С	С	С	С	С	С	С	TC	DBO Contractor/
change: The impact due to change in land use will be negligible due to this project																PIU/ CMSC
Accessibility - Traffic problems and conflicts	I .	С	С	С	С	С	С	ВС	ВС	BC	ВС	BC	ВС	ВС	TC	DBO Contractor/
near project locations and haul road:Plan sewer line works to minimize traffic	Traffic Management Plan															PIU/ CMSC
disturbance / blockades; as the sewer lines are to																
be laid in all the roads and streets in the town,	Project information															

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored							us of Com								Responsibility
		PTG	ETU								: Not Appl		DID	MKD	LDN	_
work planning is crucial to minimize the inconvenience to public. Prepare and implement a Traffic Management Plan Duly consider and select sections for trenchless method of pipe laying based on traffic conditions Plan transportation routes so that heavy vehicles do not use narrow local roads, except in the immediate vicinity of delivery sites; Schedule transport and hauling activities during non-peak hours; Locate entry and exit points in areas where there is low potential for traffic congestion; Keep the site free from all unnecessary obstructions; (Drive vehicles in a considerate manner; Coordinate with Traffic Police for temporary road diversions and with for provision of traffic aids if transportation activities cannot be avoided during peak hours; Notify affected sensitive receptors 1-week in advance by providing sign boards informing nature and duration of construction works and contact numbers for concerns/complaints. Plan and execute the work in such a way that the period of disturbance/ loss of access is minimum. Provide pedestrian access in all the locations until normalcy is restored. Provide wooden/metal planks over the open trenches at each house to	contractor's team	RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN	
 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. 	plan Mitigation measures as per RP and IEE Prior public consultations by contractor's team with shopkeepers Project information boards	C	С	С	С	С	С	BC	BC	BC	ВС	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	TC	DBO Contractor						

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored			(5.6				us of Con								Responsibility
		RTG	FTH	LXM (BC	: Being C	SHR	ABR	PRT	BNS	NATR	Not App	KMN	DID	MKR	LDN	
Occupational Health and Safety - Occupational	Site specific EHS Plan	C	С	C	C	С	C	BC	BC	BC	BC	BC	BC	BC	TC	DBO Contractor
hazards which can arise during work:	Work plans	O			O			ВО								DDO Contractor
Comply with all national, state and local core labor																
laws	workers															
• Following best practice health and safety																
guidelines: IFC's General EHS Guidelines ⁱ⁴ and	information boards															
Sector Specific (Sanitation) Guidelines																
Develop and implement site-specific occupational	Drinking water and rest sheds															
health and safety (OH and S) Plan which will	First aid facilities at															
include measures such as:	• First aid lacilities at site															
a) excluding public from the site;																
(b) ensuring all workers are provided with and use	Site protection and barricades															
personal protective equipment like helmet,																
gumboot, safety belt, gloves, nose musk and ear	Medical and health insurance of workers															
plugs; (c) OH and S Training for all site personnel;																
(d) documented procedures to be followed for all	Health check-up															
site activities; and	records of workers															
(e) documentation of work-related accidents;	Safety trainings/ reserves															
• Conduct work in confine spaces, trenches, and at	orientations records															
height with suitable precautions and using	Solid waste															
standards and safe construction methods; do not	management															
adopt adhoc methods; all trenches deeper than	Site observations															
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														1		
periodic resting and provide adequate water, and														1		
(c) provide necessary medicine and facilities to																
take care of dehydration related health issues														1		
Provide supplies of potable drinking water;																
Provide clean eating areas where workers are not																
exposed to hazardous or noxious substances;																

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored			(D(C. Baina C			us of Cor		amliad NI	N. Nat Ann	liaabla)				Responsibility
		RTG	FTH										DID	MKR	LDN	
 Provide H and S orientation training to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuring to fellow workers; Provide visitor orientation if visitors to the site can gain access to areas where hazardous conditions or substances may be present. Ensure also that visitor/s do not enter hazard areas unescorted; Ensure the visibility of workers through their use of high visibility vests when working in or walking through heavy equipment operating areas; Ensure moving equipment is outfitted with audible back-up alarms; Mark and provide sign boards for hazardous areas such as energized electrical devices and lines, service rooms housing high voltage equipment, and areas for storage and disposal. Signage shall be in accordance with international standards and be well known to, and easily understood by workers, visitors, and the general public as appropriate; Disallow worker exposure to noise level greater than 85 dB A for a duration of more than 8 hours per day without hearing protection. The use of hearing protection shall be enforced actively. 	Parameters Monitored	RTG	FTH	(BC	SRD	omplied, SHR				nplied, NA	A: Not App	KMN	DID	MKR	LDN	Responsibility
 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:	Work plans Use of PPEs by workers	NA	NA	BC	BC	BC	BC	NA	BC	BC	BC	BC	NA	NA	NA	DBO Contractor/ PIU/ CMSC
 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 	Site protection and barricades Medical and health insurance of workers Health check-up records of workers															

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored			(D (N. D. '	!! ! . !		us of Con			No. No. 4. A second	P I- I - \				Resp	onsibility
		DTC	ETU		: Being Co								DID	MKD	LDN		
prevent unnecessary entry and to avoid accidental	Site observations	RTG	FTH	LXM	SRD	SHR	ABR	PRT	BNS	KTR	MND	KMN	DID	MKR	LDN		
fall into open trenches	- Cito obcorvationo																
Identify risk of intervention with existing AC pipes.																	
If there is significant risk, implement the AMP strictly that includes identification of hazards, the																	
use of proper safety gear and disposal methods.																	
Appropriate actions as defined in the Asbestos																	
Management Plan will have to be adhered to																	
Maintain records of AC pipes as per the AMP																	
Community Health and Safety Traffic accidents		BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	TC	DBO	Contractor/
and vehicle collision with pedestrians during																CMSC	
material and waste transportation:Trench excavation and pipeline works shall be	Trench safety																
conducted in a safe manner; if the allowing public	Public consultation records with nearby																
movement along the work sites (pedestrians or	residents																
vehicles as the case may be) is likely to cause	Safety signage and																
safety risks, movement should be blocked	project information																
temporarily and work shall be conducted; in such	boards																
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 technologySurvey 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 																	
Safety of sensitive groups (children, elders etc.)	Work plan	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	ВС	TC	DBO	Contractor
and other pedestrians in narrow streets - Trench	Barricades																
excavation in narrow streets will pose high risk																	
to children and elders in the locality:	Public consultation																
Provide prior information to the local people shout the patture and duration of work	records with nearby																
about the nature and duration of workConduct awareness program on safety during the	residents																
construction work	Safety signage and project information																
Undertake the construction work stretch-wise;	boards																
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									<u> </u>								

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored							us of Con								Responsibility
		RTG	FTH	(B LXM	C: Being C SRD	SHR SHR	TC: To be	e Complie PRT	d, C: Con BNS	nplied, NA KTR	A: Not App │MND	KMN	DID	MKR	LDN	_
and also to prevent unnecessary entry and to		KIG	FIR	LAW	SKD	эпк	ADK	PKI	DNO	KIK	IVIND	raivin	טוט	IVIN	LDN	
avoid accidental fall into open trenches																
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	 approval from PIU Noise and illumination monitoring during night works Public consultations before 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
workers; • Contractors should have handheld noise level meter for measurement of noise during night hours	Workers records First aid and emergency plans for															
 Contractors should have handheld lux meter for the measurement of illumination during night hours Preferably electrical connection is available for 	night works Nearby sensitive receptors Site restoration after night works															
running equipment otherwise soundproof/super silent Diesel Generator set should be available Sound level should not increase as prescribe by	riigiit works															
СРСВ																
 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 arrangementsWorkers 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 																

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored			(5.0	D. D. J 0			us of Com			- N - (A I					Responsibility
		RTG	FTH	LXM (BC	SRD	SHR	ABR	PRT	BNS	KTR	: Not Appl		DID	MKR	LDN	
 having small kids should not work in night-time All the vehicles and equipment being used at night works should have adequate type of silencers/enclosures/mufflers to reduce noise All the vehicles should be checked for working head lamps, tail lamps, inner lights etc. before start of night works PIU/DSC site engineers and contractor's safety personnel should closely monitor the safety of works continuously and noise and illumination 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 to the first table to the first tabl		RTG		BC	BC			BC			MND	KMN			TC	DBO Contractor
 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 	ВС	BC	ВС	ВС	BC	BC	ВС	BC	BC	BC	BC	BC	BC		DBO Contractor
Construction camps and worker facilities - Temporary air and noise pollution from machine	Approval of site from PIU	ВС	ВС	ВС	ВС	ВС	ВС	ВС	ВС	ВС	ВС	ВС	ВС	ВС	TC	DBO Contractor

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 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	LDN
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 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	
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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	
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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	
as possible to use portable ready to fit-in reusable cabins with proper ventilation); thatched huts, and	
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.	
Social/Physical and Cultural Resources - Risk of • Chance finds protocol NA NA NA NA NA NA NA NA BC BC NA NA NA NA NA	NA DBO Contractor
archaeological chance finds: given in IEE	
Strictly follow the protocol for chance finds in any	
excavation work; • Consultation with	
Create awareness among the workers, Archaeological	
supervisors and engineers about the chance department	
finds during excavation work	
Stop work immediately to allow further	
investigation if any finds are suspected;	

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

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

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Compliance Status	Responsibility
	Design Phase		
	Laxmangarh		
Location impacts of designed components - Nearby community may be affected due to increased pollution during construction and operation: Sites should be selected so that nearby community may have no or minimum impact due to proposed works	Site locations and lay out plan Mitigation measures to reduce impacts during construction works	С	DBO Contractor/PIU
	Abu Road		
STP - Interference with cultural activities (crematorium near discharge point): Abu Road Locate discharge point of STP-1 at Santpur on the downstream of crematorium, and comfortably away from the river section used for rituals / bathing; consult with local community to finalize location	Location of discharge point	TC	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 preconstruction 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 route alignment, timing of works and avoidance of tree felling 	Survey of vultures and other species dependent on the available food in the work areas Bio-diversity assessment	TC	PIU / CMSC with the assistance of PMCBC Biodiversity expert and DBO contractor

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Compliance Status	Responsibility
 will reduce risk and impacts Construction work shall be timed to avoid the breeding season if specimens of the these birds are found to be using the AoA during the breeding season Monitoring. 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:	 Survey of vultures and other species dependent on the available food in the work areas Bio-diversity assessment 	TC	PIU / CMSC with the assistance of PMCBC Bio- diversity expert and DBO contractor
 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 			
·	Sirohi		
 Intake in Angore and Kalkaji Dam (Sirohi) - Water quality and ecological impacts: Design inlet of intake pipe in the dam with appropriate screen to avoid entry of aquatic organisms into inlet Select a construction methodology that is least disturbing, and appropriate for the in-situ soil condition, and able to complete the construction work prior to onset of monsoon 	 Methodology of intake construction works Maintenance of construction machineries to prevent any oil spillage 	TC	PIU / CMSC with the assistance of PMCBC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Compliance Status	Responsibility
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			
	Khetri		
All work sites - Physical cultural resources and chance	Location of work sites	TC	DBO Contractor/
finds:	Chance finds protocol		PIU/ CMSC/
 Ensure that worksites are not located in archeologically sensitive areas; liaise and reconfirm with local Archeological Department during detailed design phase; 			PMCBC
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.			
P	re –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	TC (during detail	DBO contractor/ PIU/Consultants
 Intake work site and associated work facilities shall be properly demarcated and barricaded; 	Locations of work camps Work schedule	design of intake well)	
• All works, construction material storage/ancillary works shall be			

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Compliance Status	Responsibility
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			
Preparation of plans and protocols- Various impacts:	Site specific EHS plan covering all these	С	DBO Contractor
(i) Prepare traffic management plan	plans	_	
(ii) Prepare occupational health and safety plan	'		
(iii) Prepare spoils management plan			
	Banswara		
Preparation of plans and protocols- Various impacts:	Site specific EHS plan covering all these	ВС	DBO Contractor
(i) Prepare traffic management plan	plans		
(ii) Prepare occupational health and safety plan			
(iii) Prepare spoils management plan			
	Construction Phase		
	Ratangarh		T ====
Construction of CRMC at Main Ginani - Safe disposal of Solid	Work plan	С	DBO Contractor
waste accumulated at Ginani, workers and public safety (In	Design approval		
Ratangarh):	Site safety including signage, barricades,		
Provide dedicated power supply at site, if possible, otherwise	project information boards		
DG set to be used during power failure, should be soundproof	Removal of solid waste before start of		
and having acoustic enclosures with low/permitted air emission	works		
standards;	Tree cutting		
Remove solid waste from site and dispose scientifically Firm begins described by approvided all several the site.	Noise level monitoring during construction		
Firm barricades should be provided all-round the site;	works		
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			

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Compliance Status	Responsibility
 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 	 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		Yes	Yes	Satisfactory	No any
2.	Fatehpur Sewerage Works	RSTDIP/RTG- FTP-LXG/01	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-	Yes	Yes	Satisfactory	No any
6.	Abu Road Water Supply and Sewerage Works	ABR/01	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/0 3	Yes	Yes	Satisfactory	No any

11.	Kuchaman Sewerage Works	RSTDIP/KMN/0 2	Yes	Yes	Satisfactory	No any
12.	Ladnu Sewerage Works		Yes	Yes	No work at present	-
13.	Didwana Sewerage Works	RSTDIP/LDN- DID-MKN/01	Yes	Yes	Satisfactory	No any
14.	Makrana Sewerage Works		Yes	Yes	Satisfactory	No any

Table 11: Package-wise IEE Status

Package	Components	Design Status	F	inal IEE based	on Detailed Desig	gn	Site-specific	Remarks
Number		(Preliminary Design Stage/Detailed Design Completed)	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)	EMP (or Construction EMP) approved by Project Manager? (Yes/No)	
RSTDIP/ RTG- FTP-	Ratangarh Sewerage Works	Detail Design under process	✓				Yes	First Updated IEE Approved by ADB in Aug., 2021 and uploaded on ADB website link shared.
LXG/01	Fatehpur Sewerage Works	Detail Design under process	✓				Yes	First Updated IEE Approved by ADB in Aug., 2021 and uploaded on ADB website link shared
	Laxmangarh Water Supply Works	Detail Design under process	✓				Yes	First Updated IEE Approved by ADB in Aug., 2021 and uploaded on ADB website link shared
RSTDIP/ SRD/01	Sardarshahar Water Supply and Sewerage Works	Detail Design under process	√				Yes	First Updated IEE Approved by ADB in Aug., 2021 and uploaded on ADB website link shared
RSTDIP/ SHR- ABR/01	Sirohi Water Supply and Sewerage Works	Detail Design under process	√				Yes	First Updated IEE Approved by ADB in Aug., 2021 and uploaded on ADB website link shared

	Abu Road Water Supply and Sewerage Works	Detail Design under process	√		Yes	First Updated IEE Approved by ADB in Aug., 2021 and uploaded on ADB website link shared
RSTDIP/ PRT/01	Pratapgarh Sewerage Works	Detail Design under process	✓		No	First 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	~		No	Submitted Updated IEE on 07.09.2021 as per latest approved designs and shared with ADB, compliance of comments being done
RSTDIP/ KTR/03	Khetri Water Supply and Sewerage Works	Detail Design under process	√		No	Submitted First Updated IEE on 20.09.2021 as per latest approved designs and shared with ADB, compliance of comments being done
RSTDIP/ MDW/03	Mandawa Water Supply and Sewerage Works	Detail Design under process	√		No	Submitted First Updated IEE on 07.09.2021 as per latest approved designs and shared with ADB, compliance of comments being done
RSTDIP/ KMN/02	Kuchaman Sewerage Works	Detail Design under process	✓		No	First Updated IEE Approved by ADB in Sept., 2021 and uploaded on ADB website
RSTDIP/ LDN-DID- MKN/01	Ladnu Sewerage Works	Preliminary Design Stage	✓		Not submitted by contractor	Draft IEE not updated due to no approval of designs
RSTDIP/ LDN-DID- MKN/01	Didwana Sewerage Works	Detail Design under process	✓		No	First Updated IEE Approved by ADB in Sept., 2021 and uploaded on ADB website link shared
RSTDIP/ LDN-DID- MKN/01	Makrana Sewerage Works	Detail Design under process	√	valoath an agu in/agutant/rai/ud	No	First Updated IEE Approved by ADB in Sept., 2021 and uploaded on ADB website link shared

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

4. APPROACH AND METHODOLOGY FOR ENVIRONMENTAL MONITORING OF THE PROJECT

- 15. **Institutional Arrangement for Environmental 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 consultants engineers/PIU engineers, contractor's EHS supervisor and site engineers and verify the compliances towards environmental safeguard outlined in EMP. During site visit safeguard team also interacts with labors and nearby habitants and shopkeepers to find out whether they are facing any difficulties due to construction works and discusses these issues with PIU and contractor for remedial action to be taken. During

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

- 17. **Document Checks.** At project offices (PU/PIUs) and during visit to project towns various documents related to environmental safeguard compliances are regularly checked by ESS. Main documents checked are contractors EHS plan, PUC of contractor's vehicles, agreements with other parties, environmental monitoring (air, water, noise, soil etc.) reports, training records, NOCs, consents, permits from other departments, work plan and site plans, grievances register, first aid register, equipment fitness reports etc.
- 18. **Consultations.** Consultation is a process in the project cycle to ensure the involvement of the public as stakeholders in project execution through consultation and focus group discussion meetings. Stakeholders' participation and consultation have been taken up as a continual course of action, which promote public understanding and help to minimize grievances due to ongoing work in the project. Consultation during project implementation is an integral part of the environmental management process, which not only minimizes the risks of public agitation/resistance against the project but also eradicate the gap between the community and the project management authorities, which leads to timely completion of the project and making the project people friendly.
- 19. Keeping in mind the objective of minimizing adverse impact and the need of the stakeholders' participation for the smooth implementation of the project, consultation with the members of different sections of society, the affected people, identified vulnerable groups including women headed households, slum dwellers, vendors, vegetable seller, tourist and students of the project area were carried out during planning phase. As per ADB policy consultations will be continued throughout the project implementation period. Consultations are essential part of site visit of safeguard team to project areas.
- 20. The main objectives of undertaking these consultations are:
 - To seek inputs from the stakeholders on the project execution and understand the difficulties/priorities / concerns of the communities
 - To make affected persons aware of the project impacts
 - Dissemination of information to build awareness among DPs and other stakeholders and inform them about the nature of inconvenience which may be anticipated during implementation of the project.
 - Discuss about the training requirements to enhance their skills & restore the livelihood

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

5. NATIONAL STANDARDS

Table -12: National Ambient Air Quality Standards

SI No:	Pollutants	Time weighted	Concentration in ambient air		Method of measurement	IFC Standards
140.		average	Industrial, Residential, Rural & Other Areas	Ecologically Sensitive Areas	measurement	(μg/m3)
1	Sulphur Dioxide (SO ₂) µg/m ³	Annual 24 hours	50 80	20 80	Improved West and Geake-Ultraviolet fluorescence	50 (Annual) 20 (24-hr) 500 (10- min)
2	Nitrogen Dioxide (NO ₂) µg/m ³	Annual 24 hours	40 80	30 80	Modified Jacob & Hochheiser (Na- Arsenite) Chemiluminescence	40 (Annual) 80 (24-hr) 200 (1-hr)
3	Particulate Matter (Size less than 10 µm) or PM10 µg/m³	Annual 24 hours	60 100	60 100	Gravimetric -TOEM -Beta attenuation	20 (Annual) 50 (24-hr)
4	Particulate Matter (Size less than 2.5 µm) or PM2.5 µg/m³	Annual 24 hours	40 60	40 60	Gravimetric -TOEM -Beta attenuation	10 (Annual) 25 (24-hr)
5	Carbon Monoxide (CO) µg /m³	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
а	Industrial area	75	70	70	70
b	Commercial area	65	55	70	70
С	Residential area	55	45	55	45
d	Silence zone	50	40	-	-
е	Institutional/Educational	-	-	55	45

Table -14: Drinking Water Quality Standards (As per IS 10500:2012)
Organoleptic and Physical Parameters

(Foreword and Clause 4)

SI No.	Characteristic	Requirement	Permissible Limit	Method of Test,	Remarks
		(Acceptable	in the Absence of	Ref to Part of IS	
		Limit)	Alternate Source	3025	
(1)	(2)	(3)	(4)	(5)	(6)
i)	Colour, Hazen	5	15	Part 4	Extended to 15 only, if toxic
	units, <i>Max</i>				substances are not

SI No.	Characteristic	Doguiromont	Dormissible Limit	Mothod of Toot	Domorko
SI NO.	Characteristic	Requirement	Permissible Limit	Method of Test,	Remarks
		(Acceptable	in the Absence of	Ref to Part of IS	
		Limit)	Alternate Source	3025	
(1)	(2)	(3)	(4)	(5)	(6)
					suspected in absence of
					alter- nate 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
	Turbidity,	1	5		_
v)	NTU, Max			Part 10	
vi)	Total dissolved	500	2 000	Part 16	_
	solids, mg/l,				
	Max				

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)

SI	Characteristic	Requirem		Method of Test, Ref	Remarks
No.		ent	Limit in the	to	
		(Accepta	Absence of		
		ble Limit)	Alternate		
			Source		
(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),	0.5	No relaxation	IS 3025 (Part 34)	_
	mg/l, <i>Max</i>				
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 134	28* 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,	4.0	No relaxation	IS 3025 (Part 26)*	_
	Max			or APHA 4500-CI G	
viii)	Chloride (as Cl), mg/l, <i>Max</i>		1 000	IS 3025 (Part 32)	_
ix)	Copper (as Cu), mg/l, <i>Max</i>		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,	0.2	1	IS 3025 (Part 26)	To be applicable
	mg/l, <i>Min</i>				only when water is
					chlorinated. Tested
					at consumer end.
					When protection
					against viral infec
					tion is required, it
					should be minimum
<u></u>		0.0	NI I C	10 0005 (D : 50)	0.5 mg/l
xii)	Iron (as Fe), mg/l, <i>Max</i>	0.3	No relaxation	IS 3025 (Part 53)	Total concentration
					of man ganese (as

SI No.	Characteristic	Requirem ent (Accepta ble Limit)	Limit in the Absence of Alternate Source	Method of Test, Ref to	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
					Mn) and iron (as Fe) shall not exceed 0.3 mg/l
xiii)	Magnesium (as Mg), mg/l, <i>Max</i>	30	100	IS 3025 (Part 46)	_
xiv)	Manganese (as Mn), mg/l, <i>Max</i>	0.1	0.3	IS 3025 (Part 59)	Total concentration of manganese (as Mn) and iron (as Fe) shall not exceed 0.3 mg/l
xv)	Mineral oil, mg/l, <i>Max</i>	0.5	No relaxation	Clause 6 of IS 3025(Part 39) Infrared partition method	_
xvi)	Nitrate (as NOA mg/l, Max	45	No relaxation	IS 3025 (Part 34)	_
xvii)	Phenolic compounds (as 0.001 mg/l, 1		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 SO4) mg/l, <i>Max</i>	200	400	IS 3025 (Part 24)	May be extended to 400 pro vided 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	200	600	IS 3025 (Part 23)	_
	carbonate, mg/l, <i>Max</i>				
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

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

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

S.No.	Characteristic	Tolerance Limit
1.	pH Value	6.5 to 8.5
2.	Dissolved Oxygen, mg/l/ Max	5.0
3.	Biochemical Oxygen Demand	3.0
4.	Total Coliform Organisms, MPN/100 ml, Max	500
5.	Fluorides (as F) <mg l,="" max<="" td=""><td>1.5</td></mg>	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

SI. 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	Not more than 1.0 mg/l
	ponds/lakes	
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, Suplhate,	WTP, STP, SPS and any central location in

		Nitrate, Fluiride, Hg, Cadmium, Cr ⁺⁶ ,	the town
		Arsenic, Lead, Total Alkalinity,	
		Phosphate, Phenolic compound	
5.	Soil Quality	pH, Elect. Conductivity (at 25 ⁰ C), Moisture	WTP, STP, SPS
	-	(at 105 ⁰ C), Texture (silt, clay, sand),	
		Calcium (as CaO), Magnesium (as Mg),	
		Permeability, Nitrogen (as N), Sodium (as	
		Na), Phosphate (as PO4), Potassium (as	
		K), Organic Matter, oil and grease	

Table 19: Method of monitoring and equipment used

S.No.	Parameter of Equipment used monitoring		Methodology	Protocol of test
Air Qu				
1.	PM ₁₀	Fine Particulate Sampler (e.g. Envirotech APM 550)	Collection of particulate matter on filter papers and gravimetric analysis	IS 5182 (part 23): 2006
2	PM _{2.5}	PM2.5 sampler (e.g. Envirotech APM 154)	Collection of particulate matter on filter papers and gravimetric analysis	As per CPCB guidelines
3	SOx	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	NOx	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 (Naarsenite)	IS 5182 (part VI):2006
5	СО	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	pН	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 -do- Suspended Solids (TSS)		Gravimetric Analysis	IS:3025 (part 15): 1984
10	Total -do- Dissolved Solids (TDS)		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

S.No.	Parameter of monitoring	Equipment used	Methodology	Protocol of test
13	Sulphate as SO ₄	-do-	Qualitative Analysis	IS:3025 (part 24): 2003
14	Iron as Fe	-do-	Qualitative Analysis	IS:3025 (part 53): 2003
15	Fluoride as F	-do-	Qualitative Analysis	IS:3025 (part 60): 2008
16	Zinc as Zn	-do-	Qualitative Analysis	IS:3025 (part 49): 1994
17	Copper as Cu	-do-	Qualitative Analysis	IS:3025 (part 42): 1992
18	Manganese as Mn	-do-	Qualitative Analysis	IS:3025 (part 59): 2006
19	Mercury as Hg	-do-	Qualitative Analysis	IS:3025 (part 48): 1994
20	Cadmium	-do-	Qualitative Analysis	IS:3025 (part 41): 1992
21	Chromium as Cr	-do-	Qualitative Analysis	IS:3025 (part 52): 2003
22	Total Arsenic as As	-do-	Qualitative Analysis	IS:3025 (part 37): 1988
23	Lead as Pb	-do-	Qualitative Analysis	IS:3025 (part 47): 1994
24	Dissolved Oxygen (DO)	-do-	Qualitative Analysis	IS:3025 (part 38): 1989
25	Chlorine (residual free)	-do-	Qualitative Analysis	APHA 22 nd edition- 4500Cl B
26	Calcium as Ca	-do-	Qualitative Analysis	IS:3025 (part 40): 2003
27	Magnesium as Mg	-do-	Qualitative Analysis	APHA 22 nd edition
28	Total Alkanity as CaCO ₃	-do-	Qualitative Analysis	IS:3025 (part 23): 2003
29	Colour	-	Physical observation	APHA 22 nd edition
30	Odour	-	Physical observation	APHA 22 nd edition
31	Taste	-	Physical observation	APHA 22 nd edition
32	Phenolic Compound	-do-	Qualitative Analysis	IS:3025 (part 43): 1992
33	Total Residual Chlorine	-do-	Qualitative Analysis	IS:3025 (part 26): 1986

7. ENVIRONMENTAL MONITORING DURING REPORTING PERIOD

23. Baseline environmental monitoring for ambient air, noise, water and soil has been conducted in all towns. Results show that ambient air quality in these towns are well within the prescribed standards, whereas noise quality is slightly higher in most of project towns due to prevailing ambient conditions such as noise from vehicles and other activities near the monitoring locations. During reporting period; Pre-construction (Baseline) environmental monitoring was conducted in 4 towns (Kuchaman, Ladnu, Didwana and 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 12 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 April to September 2021

S. No	Name of town	Stage of project monitoring		Period of sampling		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	10.04.2021 to 12.04.2021	Sewer Network Talhati Water Network Akrabhatta, Manpur Workman colony Santpur STP & WTP L&T Guest House (for drinking water) Manpur STP	Air quality monitoring conducted at 4 locations and results are within national standards for all parameters in all locations, whereas PM ₁₀ (89.91, 87.06, 78.84 and 73.89 μg/m³) and PM _{2.5} (47.68, 43.31, 39.28 and 29.69 μg/m³) values in all 4 locations are more than applicable ADB SPS limits but in the range of baseline environmental monitoring. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 4 locations and day time results range from 56.35 to 58.40 dBA. In all 4 locations results are higher than national standards as well as ADB SPS recommended standards for residential areas. At 3 locations, Night time results (45.80 dBA, 46.75 dBA and 45.25 dBA) are higher than national standards and ADB SPS limits. Only at 1 location i.e. Water Network Akrabhatta, night time result (44.85 dBA) is within permissible limits as per both standards. As works were not being conducted in night time on given date of monitoring, therefore increased level of noise is not due to RSTDSP works.
2.	Pratapgarh	Construction	Air Quality, Noise Quality, Ground Water Quality, Soil Quality	15.06.2021 to 16.06.2021	 Labour Yard, Housing Board Bhatpura Darwaza At Sewage Treatment Plant, Near Ahinsa Circle Raj Mandir Kila Parisar, Near STP site 	Air quality monitoring conducted at 3 locations and results are within national standards for all parameters in all locations, whereas PM ₁₀ (80.27, 85.36 and 88.40 μg/m³) and PM _{2.5} (39.86, 42.79 and 45.36 μg/m³) values in all 3 locations are more than applicable ADB SPS limits but within the range of baseline environmental monitoring. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 3 locations and day time results range from 55.4 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 45.5 dBA to 48.5 dBA which are higher than both the standards i.e. national standards and ADB SPS limits. As works were not being conducted in night time on given date of monitoring and baseline monitoring results were exceeding the prescribed limits, therefore increased level of noise is not due to RSTDSP works.
3.	Sirohi	Construction	Air Quality, Noise Quality, Ground Water Quality	12.07.2021 to 14.07.2021 (For air & Noise) and 05.06.2021 (for Ground Water Quality)	Work Man Habitat & 5.0 MLD STP Near 1.7 MLD STP Bhadrankar Nagar WTP (At Angore PHED Campus) Bore well at Labour Colony/Workman Camp	Air quality monitoring conducted at 3 locations and results are within national standards for all parameters in all locations, whereas PM $_{10}$ (70.09, 63.80 and 58.08 $\mu g/m^3$) and PM $_{2.5}$ (29.55, 28.13 and 26.49 $\mu g/m^3$) values in all 3 locations are more than applicable ADB SPS limits but in the range of baseline environmental monitoring. All other parameters are within prescribed limits as per both
4.	Banswara	Construction	Air Quality, Noise Quality, Ground Water Quality, Surface water Quality	30.06.2021 to 05.07.2021	WTP-AEN (PHED) Campus Kagdi Site/Intake STP Site SPS At Nathelav pond SPS at Pratapgarh Road Near ST bus	Air quality monitoring conducted at 6 locations and results are within national standards for all parameters in all locations, whereas PM_{10} (from 58.3 to 88.2 $\mu g/m^3$ and $PM_{2.5}$ (from 24.5 to 48.7 $\mu g/m^3$) values in all 6 locations are more than applicable ADB SPS limits but in the range of baseline environmental monitoring. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 6 locations. Day time results ranges from 50 to 73 dBA and night time

					stand	results ranges from 42 to 67 dBA. Results show that at 5 locations Day time and night time results are higher than the national standards as well as ADB SPS recommended standards for residential areas. As works were not being conducted in night time on given date of monitoring and baseline monitoring results were exceeding the prescribed limits, therefore increased level of noise is not due to RSTDSP works.Only at one location at Kagdi Site, day time (50 dBA) and night time (42 dBA) results are within prescribed limits as per both standards for residential area.
5.	Ratangarh	Construction	Air Quality, Noise Quality, Ground Water Quality, Drinking water, Soil Quality	19.07.2021 to 27.07.2021	 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 PM ₁₀ (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 but in the range of baseline environmental monitoring. 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	24.06.2021 to 25.06.2021	Near UP Koshadhikari Office Near Old PHED office Near Ajeet Govt. Hospital Near JEN Staff Colony	results are within national standards for all parameters in all 7 locations, whereas PM_{10} (ranges from 66.08 to 79.52 $\mu g/m^3$ and PM $_{2.5}$ (ranges from 35.29 to 39.21 $\mu g/m^3$) values in all 7 locations are more than applicable ADB SPS limits but in the range of baseline environmental monitoring All other parameters are within prescribed

					In Jai Singh Govt. School Near ITI College/STP proposed site Near Prashashanik Bhawan Siddhi Vinayak Temple	time results ranges from 53.2 to 59.7 dBA and night time results ranges from 42.2 to 49.2 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 all locations (except Near Ajeet Govt. School – 53.2 dBA) whereas during night time at 3 locations i.e. Near Ajeet Govt. Hospital (42.2 dBA), In Jai Singh Govt. School (44.5 dBA) and at Near Prashashanik Bhawan (44.6 dBA), results were within prescribed limit as per both standards and at remaining 3 locations results (ranges from 46.2 dBA to 49.2 dBA) were higher than the national standards as well as ADB SPS recommended standards for residential areas. As works were not being conducted in night time on given date of monitoring and baseline monitoring results were exceeding the prescribed limits, therefore increased level of noise is not due to RSTDSP works.
7	Mandawa	Construction	Air Quality, Noise Quality, Ground Water Quality, Soil Quality	02.09.2021 to 04.09.2021	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 58.61 to 66.27 μg/m³ and PM 2.5 (ranges from 26.58 to 28.08 μg/m³) values in all 4 locations are more than applicable ADB SPS limits but in the range of baseline environmental monitoring. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 4 locations. Day time results ranges from 50.46 to 53.42 dBA and night time results ranges from 40.62 to 43.57 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	Sardarshahar	Construction	Air Quality, Noise Quality, Water quality and Soil Quality	12.07.21 to 22.07.21	• STP-1 (2.30 MLD) South Campus • PHED Campus-CWR (2400 KL)	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 76.0 to 86.11 $\mu g/m^3$ and PM 2.5 (ranges from 29.14 to 38.72 $\mu g/m^3$).PM $_{10}$ and PM $_{2.5}$ values in all 5 locations are more than applicable ADB SPS limits but in the range of baseline environmental

					& PH at Hanumangarh Road STP-2 (3.40 MLD) North Campus Ramnagar Sullage Pipeline Zone 3 Near Meena ka Kawa Guest House Zone 4B	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. As works were not being conducted in night time on given date of monitoring therefore increased level of noise is not due to RSTDSP works.
9	Kuchaman	Pre- Construction	Air Quality, Noise Quality, Soil Quality	23.08.2021 to 24.08.2021	RUIDP Office (Near SPS-02) Kuber Complex in Market Near Bus Stand (Near STP) Old CWR, Near PHED Office Pachwa Road, Old CWR BSNL Office, Near SPS-01	Air quality monitoring conducted at 6 locations and all results are within national standards for all parameters in all 6 locations. PM ₁₀ (ranges from 70.5 to 86.5 μg/m³ and PM 2.5 (ranges from 34.8 to 53.5 μg/m³).PM ₁₀ and PM _{2.5} values in all 6 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 6 locations. Day time results ranges from 53.9 to 65.1 dBA and night time results ranges from 40.2 to 44.4 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). These are baseline environmental monitorings; being conducted first time in town, thus represent the actual environmental conditions in town, however contractor was instructed to adopt mitigation plan to reduce noise levels during construction works. Night time results are within prescribed limits as per both standards for residential area at all 6 locations.

10	Ladnu	Pre-Construction	Air Quality, Noise Quality, Water quality and Soil Quality	28.08.2021 to 05.09.2021	L & T Office Workmen Colony STP-2, Ladnu Pipe Laying Site-2 STP-1 Pipe Laying Site-1	Air quality monitoring conducted at 6 locations and all results are within national standards for all parameters in all 6 locations. PM ₁₀ (ranges from 72.0 to 87.0 μg/m³ and PM 2.5 (ranges from 40.0 to 50.0 μg/m³).PM ₁₀ and PM _{2.5} values in all 6 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 6 locations. Day time results ranges from 55.7 to 64.9 dBA and night time results ranges from 39.5 to 49.3 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 6 locations but in the range of baseline environmental monitoring; 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. These are baseline environmental monitorings; being conducted first time in town, thus represent the actual environmental conditions in town, however contractor was instructed to adopt mitigation plan to reduce noise levels during construction works
11	Makrana	Pre- Construction	Air Quality, Noise Quality, Water quality and Soil Quality	24.08.2021 to 29.08.2021	Main Office, Near Suncity Hospital Workmen Colony, Store Yard STP Site, Borawar Road SPS-1, Jhalara Pond SPS-2, Matabhar Pipe Laying Site, Near UMA Hospital	Air quality monitoring conducted at 6 locations and all results are within national standards for all parameters in all 6 locations. PM_{10} (ranges from 70.0 to 84.0 $\mu g/m^3$ and PM 2.5 (ranges from 40.0 to 52.0 $\mu g/m^3$). PM_{10} and $PM_{2.5}$ values in all 6 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 6 locations. Day time results ranges from 58.4 to 63.3 dBA and night time results ranges from 42.0 to 45.0 dBA. Results show that during day time, noise quality results were higher than the national standards as well as ADB SPS recommended standards for residential areas at all 6 locations. These

						are baseline environmental monitorings; being conducted first time in town, thus represent the actual environmental conditions in town, however contractor was instructed to adopt mitigation plan to reduce noise levels during construction works. Whereas night time results are within prescribed limits as per both standards for residential area at all 6 locations.
122	Didwana	Pre- Construction	Air Quality, Noise Quality, Water quality and Soil Quality	24.08.2021 to 01.09.2021	L & T Office Workmen Colony STP-2 SPS-2, Near Power House Pipe Laying Site-1 SPS-1, Near Temple	values in all 6 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards.

24. In Kuchaman, Ladnu, Makrana Didwana towns; environmental monitoring has been conducted for the first time therefore 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. Presently estimation of ACM is under progress in all towns and ACM management plan shall be updated after estimation is completed. Updated ACM plan shall be included in IEE and submitted to ADB for approval. 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.** A summary of site visits is given in following **Table – 21**.

Table 21- Summary of Site Visits

S.N.	Town visited, date of visit and name of person conducted site visit	Summary of main findings during site visits	Action taken/to be taken by contractor
1.	Person visited the Site: Dr. Mahaveer Saini, Environment Professional, CMSC-II, Mr. S K Soni, Team Leader, CMSC-II and Mr. Sajal Srivastava (Social Safeguard Professional, CMSC-II) Location: Bhainsa Singh Dam	The proposed route of canal for irrigation is passing on hilly terrain may not be used for water supply pipe line due to following reasons: In the old forest diversion proposal estimate & drawings, no item were taken related to drinking water supply scheme and on the proposed route of canal for irrigation purpose will required more cutting and filling and cleaning of trees.	-
	Date of site Visit: 08.04.2021		
2.	Town: Sirohi Person visited the Site: Dr. Mahaveer Saini, Environment Professional, CMSC-II, Mr. S K Soni, Team Leader, CMSC-II and Mr. Sajal Srivastava (Social Safeguard Professional, CMSC-II) Location: Pipe laying site for water supply and Labour Camp	Pipe laying site No barricading was used around the trench No project information board was observed at trench excavation site; No contact details of PIU/contractor are provided for grievances at site; and Workers were seen using proper PPEs.	Pipe laying Site Provide proper barricades and road signage during work on roads Provide project information board at excavation site along with contact details of PIU/contractor for grievances redressal
	Date of site Visit: 09.04.2021	Labour Camp Labour attendance register, daily temperature register of labour, first aid box, fire extinguisher etc.was available at labour camp In this labour camp	Labour Camp Good practices were observed at Labour Camp

	total 24 numbers of	
3. Town: Banswara Person visited the Site Dr. Mahaveer Sain Environment Professional, CMSC-II, Location: 200 mr DWC sewage pip laying and manhol work at Sri Rar Colony Date of site Visit 02.07.2021	rooms are allotted for labour and there are 14 nos. bathrooms and 14 nos. toilets for labour use. No female workers were reported at camp site No information board is observed at site and no PIU/contractor details are provided for to address the grievances. No proper barricading is observed that excavated open trenches for sever pipe laying, to avid free fall of human being into the open trenches. No first aid box is available	Project Information board to be provided in all sites. Proper hard barricades are required along trenches. First aid box and drinking water should be provided at all sites Excavated soil to be removed on same day Information all sites.
Town: Banswara Person visited the Site Dr. Mahaveer Sain Environment Professional, CMSC-II, Location:: Worke Camp near Kago Gate 5 Date of site Visit 02.07.2021	In the labour camp approx. 50 families are staying. Following non-compliances were observed in the labour camp: Only 25 tin shed room are available for staying the labour and. Approx. 50 % of families are in sheds. tin shed rooms are without-	Basic minimum facilities such as drinking water, solid waste management, first aid box, fire prevention, , clean fuel such as LPG should be provided in workmen camps Minimum facilities to be provided in a room: Minimum of following facilities should be provided in each workers camp room- Provision for wall mounted Fan. Provision for lighting. Two no's of 5 A (5 Ampier) plug point for mobile charging. Bed arrangement for sleeping.
Town: Banswara Person visited the Site	Worker was observed at manhole working without : PPEs	Working at manhole should be with proper personal safety equipment such as
Dr. Mahaveer Sain Environment Professional, CMSC-II,	,	Helmet, Boot, Safety Jackets and Goggles etc.
Location: 200 mr DWC sewage pip laying and manhol	е	

		I	
	work at Sri Ram Colony		
	Date of site Visit:12.08.2021		
4.	Town: Laxmangarh Person visited the Site: Dr. Mahaveer Saini, Environment Professional, CMSC-II, Location: Bad Ke Balaji Head Works, Laxmangarh Date of site Visit:	 Asbestos Containing Pipes and Couplers were observed at site Inventory of Asbestos pipes were carried out 	ACM Plan is required for safe management of ACM
5.	27.07.2021 Town: Sardarshahar Person visited the Site: Dr. Mahaveer Saini, Environment Professional, CMSC-II,	Asbestos Containing Pipes and Couplers were observed at site Inventory of Asbestos pipes were carried out	ACM Plan is required for safe management of ACM
	Location: PHED Executive Engineer Project Office on Hanumangarh Road, Sardarshahar Date of site Visit:		
	29.07.2021		
6.	Person visited the Site: Dr. Mahaveer Saini, Environment Professional, CMSC-II, Location: 200 mm DWC sewage pipe laying and manhole work at Bahubali Colony, Pratapgarh Date of site Visit:13.08.2021	 Warning sign board was observed at site and on this board PIU/contractor contact numbers are displayed. Mobile Toilet Van was observed at construction and in this mobile van separate male and female toilets are present on opposite sides. No proper barricading was observed on excavated open trenches of sever pipe laying, which may be cause of casualty. 	 Good Practice of Work Good Practice of mobile toilets arrangement at construction Site Excavations shall be hard barricaded with signs and shall have warning lights at night.
	Town: Pratapgarh Person visited the Site: Dr. Mahaveer Saini, Environment Professional, CMSC-II, Location: 250 mm HDPE Trenchless	Oil and Grease leakage was observed from Trenchless Horizontal Directional Drilling Machine Barricading and safety sign boards were not seen around the Water Pumping Engine during at road side of Neemach National	 Oil and Grease Collecting tray should be placed below the hydraulic box to collect spillage of machine oil and grease Proper barricading around this machine during using of this machine.

	sewage pipe laying at Neemach Road, Pratapgarh Date of site Visit:13.08.2021 Town: Pratapgarh Person visited the Site:	Safety Warning Board was observed at entrance of this site.	Safety Warning Board should be provided to avoid accident Good practice of site arrangement Good practice of safety at working site.
	Dr. Mahaveer Saini, Environment Professional, CMSC-II, Location: CRMC Bulding Construction Site at Municipal Council Campus, Pratapgarh Date of site Visit:13.08.2021	First Aid Box is observed at site	working site
7.	Person visited the Site: Mr. Abhay Srivastava, Environment Specialist, PMCBC and Mr. Vardan Srivastava, Environment profressional, CMSC-I Location: 200 mm DWC sewer pipe laying and manhole works at Zone 5, near RSEB office Date of site Visit: 14.09.2021	 No any project information board is provided at site, contact details of PIU/contractor is not given at sites for grievances from people Pipe barricades are not properly anchored on ground, though trench is fully fenced by barricades Workers were seen using proper PPEs Road is fully blocked but no any cautionary signage provided for road users and nearby habitants 	 information board, at each site Provide proper barricades with proper anchoring on ground and distance of vertical posts should be as specified in contract with proper clamps Good practice and to be continued
	Town: Didwana Person visited the Site: Mr. Abhay Srivastava, Environment Specialist, PMCBC and Mr. Vardan Srivastava, Environment profressional, CMSC-I Location: 200 mm DWC sewer pipe laying and manhole works at Mohandas ka Bas, near Shamshan Bhoomi	No any project information board is provided at site, contact details of PIU/contractor is not given at sites for grievances from people Pipe barricades are not properly anchored, unstable and having risk of toppling down, trench is not fully fenced by barricades JCB working at site was not having reverse horn	information boards with contact details of PIU and contractor should be displayed at site Provide firm barricades with proper anchoring on ground

and required documents copies of all necessary Date of site Visit: such as PUC, DL, RC and documents in all vehicles 14.09.2021 insurances were as well present with operator First Aid box and drinking • Provide first aid box and water was not available at drinking water at each site site During consultation with nearby habitants, it was It is advised that contact noted that SOT of details of PIU given should contractor has contractor be circulated to the nearby project information to habitants printed in the habitants, but no any contact numbers of PIU project pamphlets register any grievance and contractor was provided to them for from public, contact grievances, if any details should also be displayed at site Town: Didwana Workmen rooms are | Provide emergency completed but workers are numbers, fire Person visited the Site: not started living in rooms extinguishers, different Mr. Abhay Srivastava, types of signage and Toilets and bathrooms are Environment Specialist, constructed for workers other required facilities at PMCBC and Mr. Vardan camp before moving and proper water supply Srivastava. Environment workers in this camp, and waste water profressional, CMSC-I follow guidelines for management is being done workers camps issued by gender and specific Location: Workers RUIDP earlier signage is provided camp and storage yard Doctor's chamber Good practice and to be induction room is maintained in future Date of site Visit: Good practice and to be established at workers • 14.09.2021 continued camp for screening of new workers Ensure that only LPG or other clean fuel should Kitchens are under construction at workmen be used for cooking at camps, no burning of camps firewood A lot of HDPE pipes are should allowed for cooking or stored at storage yard but heating purpose arrangement firefighting Calculate fire load of site are not provided at site as per available and future requirements and provide adequate type of firefighting systems at site Mandatory Use of PPE's 8. Town: Kuchaman, was observed that at construction site .No Ladnun, Makrana, labours not wearing proper one allowed to perform Didwana. Khetri and PPE's at construction site • Some labour's using fire Mandawa his duty without wearing wood for cooking purpose PPE's. Person visited the Site: at labour camp site so Instruction given to the Mr. Vardan Srivastava, instructions given that contractor to provide and Environment provide **LPG** make assure the to Professional, CMSC-I availability of First Aid Box connections. • First Aid Box was not each and Location: available at working site construction site. No EHS Officer at site Deployment of EHS site Visit: Date of Officer for taken care of

	rovida concrete project
board is provided at site, contact details of PIU/contractor is not given at sites for grievances from people Road is fully blocked but no any cautionary signage provided for road users and nearby habitants Location: 90 mm HDPE water supply pipe laying works near Kuchaman Valley Date of site Visit: 15.09.2021 board is provided at site, contact details of PIU/contractor is not given at sites for grievances from people Road is fully blocked but no any cautionary signage provided for road users and nearby habitants Workers were seen using proper PPEs First Aid box and drinking water facility was not available at site	rovide separate project formation board, dicating type and uration of works, contact etails of PIU and contractor for grievances or people rovide cautionary gnage such as- Work in rogress, Road is osed, Diversion with gnage etc. as and here required tood practice and to be continued rovide first aid box and rinking water at each te
Person visited the Site: Mr. Abhay Srivastava, Environment Specialist, PMCBC and Mr. Vardan Srivastava, Environment profressional, CMSC-I Location: 200 mm DWC sewer pipe laying and manhole works at Balaji vihar Colony Date of site Visit: 15.09.2021 No any project information board is provided at site, contact details of PIU/contractor is not given at sites for grievances from people Barricades and caution boards are available at site Short orientation was given to contractors workers at site regarding environmental safeguard requirements in the project During consultation with nearby habitants, it was noted that SOT of contractor has given project information to habitants, but no any contact numbers of PIU and contractor was provided to them for grievances, if any	rovide project iformation boards with contact details of PIU and contractor should be isplayed at site
Town: Kuchaman • Workmen camp is established in a two storied building will all basic	Orkers accommodation satisfactory

Environment Specialist, PMCBC and Mr. Vardan Srivastava, Environment profressional, CMSC-I

Location: Workers camp and storage yard at Panchwa road

Date of site Visit: 15.09.2021

started living in rooms

- Toilets and bathrooms are provided for workers and proper water supply and waste water management is being done and gender specific signage is provided
- Induction room is established at workers camp for screening of new workers
- Kitchens are provided to workers at workmen camps with LPG cooking arrangement
- A lot of signage regarding HSE and good practices are provided in form of speaking walls
- Fire extinguisher is provided in workmen camp

be ensured that only LPG or other clean fuel should be used for cooking at camps, no burning of firewood should be allowed for cooking or heating purpose

 Fire extinguisher in the workmen camp, use of LPG Gas, signage regarding HSE and good practices, Induction room for workers are the Good practices and to be continued

9 **Town:** Makrana

Person visited the Site: Mr. Abhay Srivastava, Environment Specilaist,

Environment Specilaist, PMCBC and Mr. Vardan Srivastava, Environment profressional, CMSC-I

Location: 200 mm DWC sewer pipe laying and manhole works at Jhanjharia Ki Dhani village

Date of site Visit: 15.09.2021

- No any project information board is provided at site, contact details of PIU/contractor is not given at sites for grievances from people
- Barricades and caution boards are available at site
- Workers were seen using proper PPEs
- First Aid box and drinking water facility was not available at site
- Proper barricades were provided at manhole works
- Concrete mixture being used at site is not having enclosure to reduce noise and lacking proper stake height to avoid inhalation of smoke from concrete mixture, oil leakage is also seen in the equipment
- Access to houses were left for passege of habitants
- During consultation with nearby habitants, it was noted that SOT of contractor has given project information to habitants, but no any contact numbers of PIU and contractor was provided to them for grievances, if any

- Provide project information boards with contact details of PIU and contractor should be displayed at site
- Good practice and to be continued
- Provide first aid box and drinking water at each site
- Good practice and to be continued
- It is advised to use safe and maintained portable concrete mixture with acoustic enclosure at site to reduce noise and emission of smoke. Also provide proper stake height to avoid inhalation of smoke by workers during operation of concrete mixture
- Good practice and to be continued, no access to any house of shops should be blocked during construction works
- It is advised that contact details of PIU and contractor should be circulated to the nearby habitants printed in the project pamphlets to register any grievance

			from public, contact
			details should also be displayed at site
10.	Town: Fatehpur Person visited the Site: Dr. Mahaveer Saini, Environment Professional, CMSC-II, Location:: Outer wall and Effluent Overhead Tank of proposed STP, Fatehpur Date of site Visit: 28.07.2021	 Workers were observed with partially personally safety equipment's; First Aid box was observed at site; Drinking water facility was observed at site; Project information is observed at site; 	 Good practices were
	Person visited the Site: Mr. Abhay Srivastava, Environment Specialist, PMCBC and Dr. Priya Goyal, Safeguard Support- Environment Location: STP (4.3 MLD) at Nari-Bari Road Date of site Visit: 24.09.2021	Workers and site staff seen using proper PPEs at work site Proper barricades, access, staircase and signage are provided at site Proper electrical safety is provided at site Proper safety arrangements at elevated works of TEER are seen like-barricades, caution signage, formworks, stairs, safety net, safety belts etc. Excavator/tractor working at site are not having required documents at site Water stored in curing tank is having a lot of mosquito larva Fire extinguisher is hanged on a tree	Use of PPEs, Proper barricades, access, staircase and signage at site, Proper electrical safety are the good practices and to be continued in future Ensure a copy of all required documents such as PUC, insurance, RC, DL and fitness certificate/inspection tag etc. are present in each vehicle at site Cover the tank with mosquito net or use suitable insecticide to prevent mosquito breeding in stored water Provide proper stand for fire extinguisher at site with adequate signage
	Person visited the Site: Mr. Abhay Srivastava, Environment Specialist, PMCBC and Dr. Priya Goyal, Safeguard Support- Environment Location: 200 mm DWC sewer pipe laying and manhole works at Zone 3, Mominpura Date of site Visit: 24.09.2021	No any project information board is provided at site, contact details of PIU/contractor is not given at sites for grievances from people Road is fully blocked but no any cautionary signage provided for road users and nearby habitants Male workers were seen using proper PPEs, whereas female workers were not using safety shoes and helmets During consultation with nearby habitants, it was	Provide separate project information board, indicating type and duration of works, contact details of PIU and contractor for grievances for people Provide cautionary signage such as- Work in Progress, Road is closed, Diversion with signage etc. as and where required Provide and ensure use of basic PPEs by all workers, including female workers

	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 that no access for vehicles was left since last 5-6 days Orientation was given to workers about EHS requirements during construction works at site	and site team should continuously remain in contact with people throughout construction works to find out any difficulties due to works, it is advised that contact details should also be displayed at site for grievances from people Workers informed that daily pep talk was in practice by site supervisor and safety staff- good practice
Person visited the Site: Mr. Abhay Srivastava, Environment Specialist, PMCBC and Dr. Priya Goyal, Safeguard Support- Environment Location: Workers camp and storage yard Date of site Visit: 24.09.2021	 Approx. 45 workers are living in workers camps, all the basic facilities are provided in camps Toilets and bathrooms are constructed for workers and proper water supply and waste water management is being done but gender specific signage is not provided Kitchens are provided at workmen camps and LPG is being used for cooking Height mock up structure is provided for checking fitness of workmen for work at height A lot of HDPE pipes are stored at storage yard but sufficient firefighting arrangements are not provided at site 	 All required basic amenities, use of LPG gas in kitchen, Height mock up structure for checking fitness of workmen for work at height are the good practices and to be maintained in future Provide gender specific signage for toilets and bathrooms Good practice- Ensure that only LPG or other clean fuel should be used for cooking at camps, no burning of firewood should be allowed for cooking or heating purpose Calculate fire load of site as per available and future requirements and provide adequate type of firefighting systems at site

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 towns were reported in last SEMR (October 2020 to March 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 April to September 2021 (by Safeguard specialists of PMCBC/CMSC)

_	Orientation/Product Date Demonstrate Destricts and					
S.	Orientation/Traini	Date	Demonstrat	Participants		
No.	ng		ors			
	wara Town	04.07.0004				
1	Orientation regarding requirements of environmental safeguard during project implementation	01.07.2021	Dr. Mahaveer Prasad Saini , Environment Safeguard Professional of CMSC -II	PIU: 1.Ashok Jangid (EXN-RUIDP), Banswara) Consultant (CMSC-II): 1. Mr. Mohit Jain (Support Staff-CMSC-2, Banswara) 2. Mr. Mayank Prajapati (Support Engineer CMSC-2, Banswara Contractor's team (L& T): 1. Mohd. Shahid (Project In charge, BIPL SC HP) 2. Kenal Sayuj (Project Co-ordinator and Liaison Officer, BIPL SC HP) Total Participants- 5 Male-5 Female-0		
Laxm	nangarh Town					
2	Orientation regarding requirements of environmental safeguard during project implementation	27.07.2021	Dr. Mahaveer Prasad Saini , Environment Safeguard Professional of CMSC -II	PIU: None Consultant (CMSC-II): None Contractor: 1. Mr. Kartikeya Singh, Supervisor 2. Mr. Vishal Gorai, Dy. Mechanical Engineer 3. Mr. Survesh, Workman Total Participants- 3 Male-3 Female-0		
Fatel	pur Town					
3	Orientation regarding requirements of environmental safeguard during project implementation	28.07.2021	Dr. Mahaveer Prasad Saini , Environment Safeguard Professional of CMSC-II	PIU :None Contractor's team (L& T): Smt. Govindi Mr. Haishankar Smt. Jamna		

	1	I	ı	
				Mr. Angand
				Mr. Bari Lal
				Mr. Bindi Pal
				Total Participants- 6
				Male-4
				Female-2
Prata	pgarh Town			
4	Orientation	13.08.2021	Dr. Mahaveer	PIU: None
	regarding		Prasad Saini	
	requirements of		,	Consultant (CMSC-II):
	environmental		Environment	1. Mrs Sapna Mehta, Social Safeguard
	safeguard during		Safeguard	Support
	project		Professional	
	implementation		of CMSC-II	Contractor:
				1. Mr. Kaalu ram Meena
				2. Mr. Praburam
				3. Mr. Jeevatram
				4. Mr. Guddu Meena
				5. Mr. Ramlal Meena
				Total Participants- 6
				Male-5
				Female-1
Ladn	u, Didwana & Makran	а	•	
5	Pre-construction	14.09.2021	Mr. Abhay	PIU:
	orientation		Srivastava-	1. Mr. Rakesh Mudgal, SE, PIU, Kuchaman
	regarding		Environment	2. Mr. Ashok Chordia, Executive Engineer,
	requirements of		Safeguard	PIU, Ladnu
	environmental		Specialist, PMCBC Mr.	3. Mr. Gurtej Singh, Executive Engineer, PIU, Makrana and Didwana
	safeguard during Project		Vardan	4. Mr. Jeetendra Kumar Meena, Junior
	Implementation		Srivastava.	Engineer, PIU, Ladnu
	Implomonation		Environment	5. Mr. Jitendra, Junior Engineer, PIU,
			Specialist,	Makrana and Didwana
			CMSC-I	
				Consultant (CMSC-I):
				1.Mr. Vardan Srivastava, Environmental
				Safeguard Professional, Jaipur
				2. Mr. Arun Kanojia, ACM, CMSC-1,
				Didwana and Makrana
				3. Mr. Vijay Pal, ACM, Ladnu
				4.Mr. Sher Mohammand, Support Engineer, Ladnu
				5.Mr. Saddam Nirwan, Support Engineer
				Didwana
				6. Mr. Suraj Kumar Singh, Construction
				Manager, Didwana
				Contractor's team (L& T):
				1. Mr. Sanjay Kumar Singh, Project
				Manager, Didwana and Ladnu
				2. Mr. Ravinder Rawat, Construction
				Manager, Didwana
				3. Mr. Ranjit Jain, IR, Didwana
				4. Mr. Robin Maprani, HSE officer, Didwana
				and Makrana
				5. Mr. Anil, QA/QC
				6. Mr. Arun C.D., Accounts

1			7 M. F KD C (!! 14
			 Mr. Eswaran K.P. Construction Manager, Ladnu Mr. Jeevan Kumar P.K., HSE officer, Ladnu Mr. T. Rambabu, Accounts and Admin, Ladnu Mr. Ranjit Jha, IR, Ladnu Mr. Ranjit Jha, IR, Ladnu Consultant (CMSC-II): Mr. Vardan Srivastava, Environmental Safeguard Professional, Jaipur Mr. Swadesh Godara, Support Engineer Mr. Ankit Sharma, Support Engineer Total Participants- 24 Male-24 Female-0
Kuchaman Town			
6 Pre-construction orientation regarding requirements of environmental safeguard during project implementation	15.09.2021	Mr. Abhay Srivastava- Environment Safeguard Specialist, PMCBC	PIU: 1. Mr. M. C. Gupta, Executive Engineer, PIU, Kuchaman 2. Mr. Saurabh Kumar Tayal, Junior Engineer, PIU, Kuchaman Consultant (CMSC-I): 1. Mr. Vardan Srivastava, Environmental Safeguard Professional, Jaipur 2. Mr. Swadesh Godara, Support Engineer 3. Mr. Ankit Sharma, Support Engineer Contractor: 1. Mr. Shahnawaz Hasan, Project Manager, Kuchaman 2. Mr. K. C. Panigrahi, Construction Manager, Kuchaman 3. Mr. Anurag, Planning 4. Mr. Avijit Dhara, Engineer 5. Mr. Sayan Anjum, Engineer 6. Mr. P. Ashok, QA/QC 7. Mr. Sunil Kumar, Surveyor 8. Mr. Anurag Baherwal., HSE officer 9. Mr. Indrajit Adhikari, civil technician 10. Md. Rashid, Civil Surveyor 11. Mr. Mrityunjay Singh, SOT member 12. Ms. Koyal Rathore, SOT member 13. Ms. Roshan Kanwar, SOT member 14. Mr. Kishan Singh, SOT member 15. Mr. Atul Singh, Engineer CAPC: 1. Mr. Devender Singh, SDE Total Participants- 21 Male-19 Female-2

Note- Photographs and attendance sheets of orientations are attached in Appendix 8

11. PUBLIC CONSULTATION & GRIEVANCE REDRESS MECHANISM

A. Public Consultation

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

Table 23- SUMMARY OF CONSULTATIONS DURING APRIL 2021 – SEPTEMBER 2021

S. No.	Date and place of consultation	Works being executed at/near site	Persons consulted	Topics discussed during consultation	Outcome of consultation
1.	02.07.2021, Sri Ram Colony, Dhahod Road, Banswara	DWC pipe laying of 200 mm dia and construction of manholes, Banswara	Local residents Total-4 Male: 4 Female: 0	During Public Consultation it was observed that Contractor site Engineering's informed to some local residents but not informed to every household in particular street where trench excavation would be taken.	Contractor should inform to households and shopkeepers about the nature and duration of work before start the excavation works and trenches should not be taken open for long duration to avoid public inconvenience.
2.	27.07.2021, Zone 1 B, Laxmangarh	Pipe laying work and water supply house connection	Shopkeepers and nearby residents Male- 3 Female-0	Safety measures taken for locality are not proper but contractor has given early information about the schedule of excavation and laying work. Delay in repairing of damaged (from pipe laying work) water supply house connection lines.	Repairing of water supply house connections should be done immediately after the excavation/road cutting work.
3.	14.09.2021, Mohandas ka Bas, near Shamshan Bhoomi, Didwana	200 mm DWC sewer pipe laying and manhole works	Nearby residents Male- 2 Female-0	During consultation with nearby habitants, it was noted that SOT of contractor has given project information to habitants, but no any contact numbers of PIU and contractor was provided to them for	• It is advised that contact details of PIU and contractor should be circulated to the nearby habitants printed in the project pamphlets to register any grievance from public, contact details should also

S. No.	Date and place of consultation	Works being executed at/near site	Persons consulted	Topics discussed during consultation	Outcome of consultation
				grievances, if any	be displayed at site
4.	15.09.2021, Balaji vihar Colony, Kuchaman	200 mm DWC sewer pipe laying and manhole works	Nearby residents Male- 1 Female- 1	During consultation with nearby habitants, it was noted that SOT of contractor has given project information to habitants, but no any contact numbers of PIU and contractor was provided to them for grievances, if any	It is advised that contact details of PIU and contractor should be circulated to the nearby habitants printed in the project pamphlets to register any grievance from public, contact details should also be displayed at site
5.	15.9.2021, at Jhanjharia Ki Dhani village, Makrana	200 mm DWC sewer pipe laying and manhole works	Nearby residents Male- 2 Female- 0	During consultation with nearby habitants, it was noted that SOT of contractor has given project information to habitants, but no any contact numbers of PIU and contractor was provided to them for grievances, if any	It is advised that contact details of PIU and contractor should be circulated to the nearby habitants printed in the project pamphlets to register any grievance from public, contact details should also be displayed at site.
6.	24.09.21, Momminpura (200 mm dia.), Zone -3, Fatehpur	Pipe Laying Works	Nearby residents Male- 4 Female- 2	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 access for vehicles was left since last 5-6 days Co-operation of Workers/supervisors/Engineers during work	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/supervisor s/Engineers cooperation
7.	24.9.21, SPS (1.1 MLD) site near Railway Underpass, Nawalgarh Road, Pratap Nagar, Fatehpur	Proposed construction of SPS	Nearby residents Male- 3 Female- 0	Type of land Pre-construction information about proposed work Satisfaction status of the nearby residents from the proposed pipe	It was informed that this is Government land and belongs to Municipal Council Information were provided to nearby residents

S. No.	Date and place of consultation	Works being executed at/near site	Persons consulted	Topics discussed during consultation	Outcome of consultation
				laying work	Nearby Residents were happy with proposal of SPS construction in their area

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

B. PROJECT-SPECIFIC GRIEVANCE REDRESS MECHANISM

- 36. A project-specific, three-tier grievance redress mechanism (GRM) covers both environment and social issues. The GRM will be established to receive, evaluate, and facilitate the resolution of affected persons' concerns, complaints, and grievances about the social and environmental performance at project level. The GRM will aim to provide a time-bound and transparent mechanism to voice and resolve social and environmental concerns related to the project. Assessment of the GRM designed and implemented for Rajasthan Urban Sector Development Program (RUSDP)⁵ the system was effective in timely resolution of grievances in a transparent manner.⁶ The multichannel, project-specific, three-tier GRM is functional at RUSDP, hence the design of GRM for RSTDSP takes into account the proposed institutional structure for RSTDSP and the positive features and learnings from the previous GRM.⁷
- 37. **Common GRM.** A common GRM will be in place for social, environmental, or any other grievances related to the project. Implementation of the resettlement plans/RIPPs/DDRs/IEEs will follow the GRM described below. The GRM will provide an accessible and trusted platform for receiving and facilitating resolution of affected persons' grievances related to the project.

The procedures followed for grievance redress during implementation of RUSDP Phase III included the project GRM and the pilot GRM software application (Smart Check) in Pali, the Sampark portal of Government of Rajasthan, and the Chief Minister's helpline. Complaints received through various channels were mostly minor and pertained to damage to existing water supply pipelines and disruption of water supply during construction, delays in road restoration, and pending new connections. Complaints related to damage to private property (compound walls/steps, etc.) were less in number. The grievances were mostly possible to resolve in coordination with the contractors. Complaints received were immediately referred by the CAPC/PMDSC supervision staff to the PIU Nodal officer (safeguards) and concerned engineer at PIU, who advised them on further action. Follow up with the contractor on complaint resolution was undertaken by PIU Nodal officer CAPC and PMDSC and final feedback sought from complainant upon resolution. Complaints requiring inter-departmental coordination were referred to the PMU for resolution, and feedback provided to complainant. The PMU kept regular track of grievances through Whatsapp and email alerts, ensuring registration and follow-up until resolution.

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

Ontinued 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.

- 38. Public awareness campaigns within entire ULB/Municipal area will ensure that awareness on grievance redress procedures is generated. The nodal officer- social/environment at field level through community awareness and public participation consultant (CAPPC) will conduct ULB/Municipal area-based awareness campaigns to ensure that poor and vulnerable households are made aware of grievance redress procedures and entitlements. Contractors will provide pamphlets to communities prior to start of works and billboards during construction. The pamphlets and billboards will include relevant environmental and social safeguards, GRM information, and contact details of key personnel from PIU and contractors.
- 39. Affected persons will have the flexibility of conveying grievances/suggestions by dropping grievance redress/suggestion forms in complaint/suggestion boxes that will be installed by project PIUs or by e-mail, by post, or by writing in a complaints register in ULB offices/complaints register at contractor's work site8 or by sending a Whatsapp message to the PIU9 or by dialling the phone number of town level PIU/CAPPC or by dialling a toll-free number. 10 Any aggrieved person can also avail the facilities of online grievance monitoring system 'Rajasthan Sampark' portal to register their grievance which is a parallel mechanism of grievance registration, in addition to the project GRM. 11 Careful documentation of the name of the complainant, date of receipt of the complaint, address/contact details of the person, location of the problem area, and how the problem was resolved will be undertaken and feedback provided to the complainant on action/decision taken. The Safeguard and Safety Officer of town/city level PIU will have the overall responsibility for timely grievance redressal on environmental and social safeguards issues and for registration of grievances, related disclosure, with the assistance of project consultants. In case of grievances that are immediate and urgent in the perception of the complainant, the contractor, and officials of PIU with assistance from construction management and supervision consultants (CMSC) and CAPPC on-site will provide the most easily accessible or first level of contact for quick resolution of grievances. Contact numbers and names of the concerned PIU safeguard and safety officer, contractors, CAPPC and CMSC personal will be posted at all construction sites at visible locations.

Rajasthan Secondary Towns Development Sector Project (RSTDSP)

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

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

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

http://www.sampark.rajasthan.gov.in/RajSamWelcome.aspx

- (i) 1st level grievance. The contractors, PIU Executive Engineer (EE)/Assistant Engineer (AE) designated as safeguard and safety officer (social and environment), CMSC (safeguard staff) and CAPPC can immediately resolve issues on-site, in consultation with each other and will be required to do so within 7 days of receipt of a complaint/grievance. If required, city level monitoring committee (CLMC)¹² will be involved in resolution of grievances at the 1st level.
- (ii) 2nd level grievance. All grievances that cannot be redressed within 7 days at field/PIU level will be brought to the notice of Zonal PIU headed by Additional Chief Engineer (ACE). The ACE at zonal PIU will resolve the grievance within 7 days of receipt of compliant/grievance in discussion with the ASO, field level PIU, CMSC, CAPPC and the contractor.
- (iii) **3rd level grievance**. All the grievances that are not addressed by Zonal PIU within 7 days of receipt will be brought to the notice of the PMU. Depending on the nature of grievance, the Project Officer (Social/Environment) at PMU will resolve the grievance within 15 days of receipt of grievance with necessary coordination of Zonal PIU and CMSC and guidance/instruction of Additional Project Director (APD-PMU).
- (iv) Grievances not redressed through this process within/at the project level within stipulated time period will be referred to the CLC/GRC, which has been set up. ¹³ In its role as a GRC, the CLC will meet whenever there is an urgent, pending grievance. Other grievances can be discussed during its regular meetings. Zonal PIU will inform the CLC regarding any grievances required to be resolved urgently. The GRC will resolve the grievance within 15 days of receiving the complaint. In case of any indigenous peoples impacts in subprojects, the CLC/GRC must have representation of the affected indigenous people community, the chief of the tribe or a member of the tribal council as traditional arbitrator (to ensure that

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.

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

- traditional grievance redress systems are integrated) and an NGO working with indigenous people groups.
- (v) The multi-tier GRM for the project is outlined below (Figure XXX), 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.

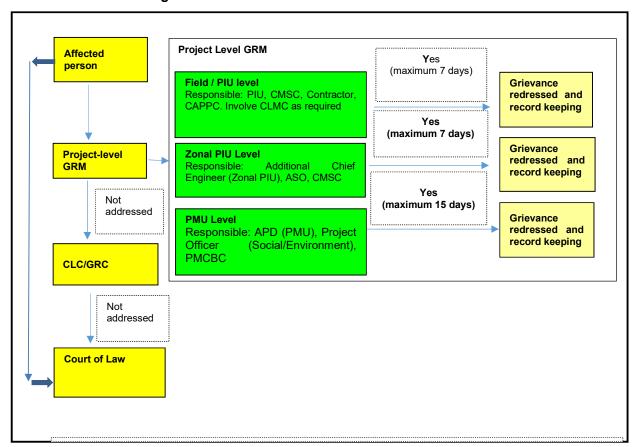


Figure 2: Grievance Redress Mechanism-RSTDSP

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), 2013.¹⁴

- 41. People who are, or may in the future be, adversely affected by the project may submit complaints to ADB's Accountability Mechanism. The Accountability Mechanism provides an independent forum and process whereby people adversely affected by ADB-assisted projects can voice, and seek a resolution of their problems, as well as report alleged violations of ADB's operational policies and procedures. Before submitting a complaint to the Accountability Mechanism, affected people should make an effort in good faith to solve their problems by working with the concerned ADB operations department. Only after doing that, and if they are still dissatisfied, should they approach the Accountability Mechanism¹⁵.
- 42. PMU, RUIDP, had issued office order no. 1282 dtd. 04.05.2018 reffering that Grievance Redress Mechanism prevailing in RUIDP Phase-III (loan no. 3183-IND) will be replicated in RUIDP Phase-IV (RSTDSP loan no. 3972-IND) project also. Further PMU, RUIDP Jaipur has issued a letter no. 11367 dtd. 18.12.2020 to all PIUs to establish the GRM under RSTDSP and nomination of required officers at first level in PIUs. Copy of these letter are 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

		SKC Wembers	(Grievance r	earessai con	nmittee memi			
Town Name		1 st Lev	rel GRC Memi	oers		2 nd Level GRC Member s		rel GRC nbers
	Contractor (Project Manager)	Executive Engineer, PIU	Safeguard and Safety Officer (SSO), PIU	Environm ent Safeguard -, CMSC	Social Safeguard, CMSC	Zonal Additiona I Chief Engineer	Project Officer, Environ ment, PMU	Project Officer, Social, PMU
Ratangarh	Mr. Bhanu Pratap Raghuvanshi	Mr. R.D. Garg	Mr. Deepak Mandan					
Fatehpur	Mr. Madheshwar Kumar	Mr. Hari Babu	Mr. Surendra Godra			Mr. S.K. Verma, Zone-	Mr. Vijay	Mr. K M Manda
Laxmanga rh	Mr. Madheshwar Kumar	Mr. Hari Babu	Mr. Hari Babu			Jodhpur	Choud hary	wariya
Sardarsha har	Mr. Rishi Kumar	Mr. R.D. Garg	Mr. Dinesh Fogat	Dr. Mahaveer	Mr. Naasir			

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

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

	Sakalley	(on Additional Charge)		Saini	Hussain		
Abu Road	Mr. Pankaj Biswas	Mr. Deepak Mandan	Mr. Sunil Vishnoi				
Sirohi	Mr. Prakash Chand Gupta	-	Mr. Ashok Kadwasara				
Pratapgar h	Mr. Lalit Trivedi	Mr. Ashok Kumar Jangid	Mr. Madan Lohar				
Banswara	Mr. S.P. Singh	Mr. Ashok Jangid	Mr. Prabhulal Bhabor				
Kuchama n	Mr. Shahnavaz Hasan	Mr. Ashok Kr. Choradia	Mr. Saurabh Tayal	Mr. Vardan Srivastava	Mr. Rajeev	Mr. Narendra Ajmera Zone-	
Ladnun	Mr. S.K.Singh	Mr. Ashok Kr. Choradia	Mr. Jitendra.				
Makrana	Mr. S.K.Singh	Mr. Ashok Kr. Choradia	Mr. Gurtej Singh				
Didwana	Mr. S.K.Singh	Mr. Ashok Kr. Choradia	Mr. Jitendra Meena				
Khetri	Mr. Anil kumar Meena	Mr. D.K.Verma	Mr. Devendra Saini			Jaipur	
Mandawa	Mr. Karri Bhujanga Rao	Mr. D.K.Verma	Mr. Devendra Saini (On additional Charge)				

44. During April to September 2021, no any grievance related to Environment, Health and Safety was received in any of the town and no any GRC or CLMC meeting was required at any town and no any such meetings conducted in any town during reporting period.

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

- 45. Contractors of different packages have deputed EHS Engineers in their respective towns for compliance of EHS and safeguard issues at site. Contractors have provided workers camps with sufficient and adequate facilities. Proper barricades and signage are being provided during pipe laying works in general. Contractors are also observing different important days (safety week, world environment day, labor day etc.) at their respective sites to recognise the importance of Environment, Health and Safety and making awareness among workers. Various types of environmental, health and safety activities and worker's welfare activities like workers health check-ups, blood donation camps, plantations, social works, safety orientations, COVID-19 awareness and training are also performed by contractors time to time apart from project related EHS compliances. Contractors' performance of EHS is monitored by safeguard specialists/support of PMCBC/CMSCs during their site visit and contractors also submit monthly and quarterly reports of various EHS activities at sites to PIU/CMSC/PMCBC.
- 46. During reporting period various such activities were performed by different contractors and illustrations are attached as **Appendix 7 and 8** with this report.
- 47. 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 SEMPs 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. SEMPs of other contractors are under stage of submission/review by experts and shall be reported in next SEMR.
- 48. Prevention and control measures adopted by contractors during COVID-19 pandemic. Due to pandemic of COVID-19 there is risk of infection to workers and staff while working at sites, therefore there was requirement to follow COVID appropriate behaviour at all work sites and offices, for which RUIDP prepared guidelines for COVID-19 and issued to all PIUs and contractors with the instruction to strictly follow these guidelines during construction works at sites and all offices of PIU/consultants/contractors. Contractors followed all the guidelines as specified by RUIDP and Governments and prepared SOP for construction activities.
- 49. All the contractors have prepared separate plan for prevention and control of COVID-19 during pandemic and after resume of works at site. Purpose of these documents are to lay down procedures to be followed during pandemic conditions as per guidelines issued by State Government & local authorities. RUIDP directions, contractors SOPs, their efforts and activities for

prevention and control measures for COVID-19; adopted by contractors are reported in **Appendix 9**.

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

13. SUMMARY OF KEY ISSUES AND REMEDIAL ACTIONS

A. FINDINGS AND KEY ISSUES

- 51. Up to September 2021, 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).
- 52. IEEs of 13 project towns (out of 14 towns; excluding Ladnu town) 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 13 IEE submitted, IEEs of 10 towns i.e. Ratangarh, Sardarshahar, Fatehpur, Laxmangarh, Abu Road, Sirohi, Pratapgarh, Kuchaman, Didwana, Makrana towns have been approved by ADB and uploaded on ADB and RUIDP web portals whereas updated IEEs of 3 towns of Khetri, Mandawa and Banswra were submitted to ADB in September 2021, which were reviewed by ADB and comments were given which are under compliance by RUDSICO-EAP.
- 53. Contractors have been oriented in pre-construction stages by PMCBC/CMSC environment specialists about requirements of ADB safeguard policy and other contractual and legal compliances. Periodical refresher trainings and orientations is required during regular site visits to ensure compliance of EMP.
- 54. All the required legal obligations are being fulfilled in the project. CTE for proposed construction of STPs and WTPs are being applied before start of any construction activities at site.

There are total 19 STPs and 3 WTPs proposed for construction in all 14 towns, thus total 22 WTPs/WTPs required CTE. Up to September 2021 total 20 applications for CTEs were submitted out of which 18 CTEs have been issued by RSPCB. Application for other pending CTEs is required before start of construction works at sites. Other contractual and legal compliances are being fulfilled in all project towns.

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

B. REMEDIAL MEASURES

57. Following remedial measures and action plan 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 some stretch of raw water rising main at Abu Road	PIU/CMSC-2	31.12.2021	
Land Issues of project components	Ladnu- Land for STP 3.5 MLD at Vishwanathpur Sardarshahar- Land for STP 1.6	PIU, Ladnu PIU,	At earliest At earliest	
	MLD at Gandhi Vidya Mandir's land	Sardarshahar	7 tt Carlicot	
Non submission of SEMPs by contractors	Submit final/updated SEMPs of following packages- Pratapgarh, Banswara, Khetri, Mandawa, Ladnu, Didwana, Makrana, Kuchaman	DBO contractors of all towns	30.11.2021	
Poor Implementation of EMP in some packages-	Provide project information boards and caution boards, proper barricades, drinking water, first aid box, toilets etc. at the work sites in following packages-Makrana, Didwana, Kuchaman, Pratapgarh, Banswara	DBO contractors of concerned towns	Immediate	
Environmental monitoring conducted only in few packages	Conduct ambient environmental monitoring as per the EMP in following packages-Khetri	DBO contractor	Immediate	
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	31.12.2021	

APPENDIX 1: PHOTOS OF SITE VISITS AND CONSTRUCTION WORKS





Construction works at 6.9 MLD STP

Construction works at STP site

Sirohi Town





Use of PPEs by workers at 1.7 MLD STP

Safety during work at height at 5 MLD STP





Sewer pipe laying works at Housing Board

Labour Camp Photos

Banswara Town





200 mm DWC sewage pipe laying and manhole work at Sri Ram Colony

Pratapgarh Town



Mobile Toilet Van at Construction site, Bahubali Colony, Pratapgarh



CRMC Building Construction Site at Municipal Council Campus, Pratapgarh

Laxmangarh Town



Separate toilets for men and women in workers camp



Use of PPE Kit during AC Pipes inventory

Fatehpur Town



Construction wroks at STP site



Project information board at STP site



Proper electrical safety at STP site



Height mock up structure at workers camp

Sardarshahar Town



Use of PPE Kit during inventory of AC Pipes



Use of PPEs at site

Mandawa Town



Pipe Laying works with caution boards and barricades





Pipe Laying wotk at site **Didwana Town**



Doctor's chamber and induction room at workers camp



Separate Toilets and bathrooms at workers camp

Kuchaman Town



Workers camp at Panchwa Road



Speaking walls showing safety practices at workers camps

Makrana Town



Barricades at Construction site



Passage for habitants at costruction site

Ladnu Town



Ladnu:- STP 01



Ladnu:-STP 02

APPENDIX 2: SAMPLE PHOTOGRAPHS OF CONSULTATIONS



Public consultation at Sri Ram Colony, Banswara dated 02.07.2021



Public consultation at Zone 1B, Laxmangarh dated 27.07.2021



Public Consultation at Mohandas ka Bas, near Shamshan Bhoomi, Didwana dated 14.09.2021



Public Consultation at Balaji Vihar Colony, Kuchaman dated 15.09.2021



Public consultation at Jhanjharia Ki Dhani village, Makrana dated 15.09.2021



Public consultation at Momminpura Zone -3, Fatehpur dated 24.09.2021



Public consultation at Proposed SPS (1.1 MLD) site, Fatehpur dated 24.09.2021

APPENDIX 2A: SAMPLES OF ATTENDANCE SHEETS OF CONSULTATIONS

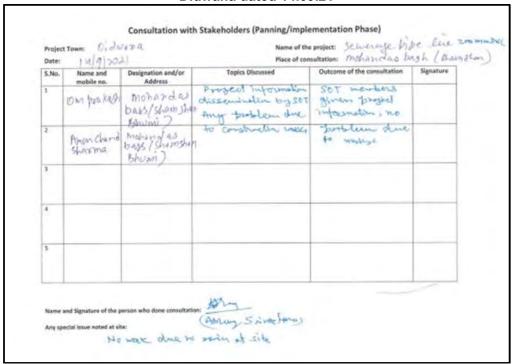
Attendance Sheet of Public Consultation at Sri Ram Colony, Banswara dated 02.07.2021

					0.7.0.7
Dates		Banswara Town	n, Banswara I	t Sector Project – S District, Rajasthan	
Place:	= 52 Ram	12021- colony. D	helood	Road Bas	ve Mara-
S.No.	Name of Participant	Occupation	Address	Signature	Phone Number
1.	Peakash chandre	J. Pets Dign	-	-Ja12]	34143614
2.	Press Cupte	Carnoret		- ALP.	34615733
3.	Mark Tiwan	Stadent		अभित निवारी	9785426
4.	Saina.th	Mill worker		भूगेमाळा-	246269UF
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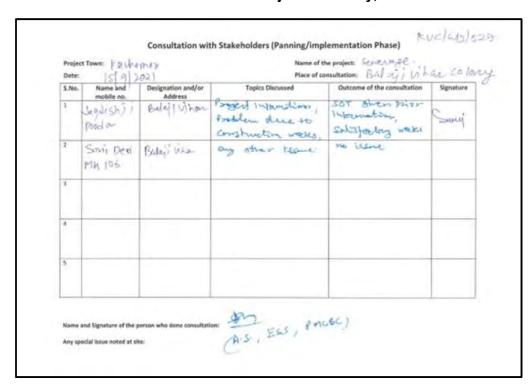
Attendance Sheet of Public Consultation at Zone 1B, Laxmangarh dated 27.07.21

		- 1
	DATE 2 7 0 7	20211
Pogert Name!	- Rajosthan Secondary Towns Denslopme	1011
	Project - Water Supply Project in Loix	ant seator
Α.	DEPOCT - LONG KOLOUTA OL	rangerou lowy
Vm5	he consulte fin sheet. Date: - 27.0	7-2021
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S. Worran	- 9928335362 -	8
> Maran	wad Anis Quresin - Selfemployer - 7073869914 -	13 (pa) PA
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Attendance Sheet of Public Consultation at Mohandas ka Bas, near Shamshan Bhoomi, Didwana dated 14.09.21



Attendance Sheet of Public Consultation at Balaji vihar Colony, Kuchaman dated 15.09.21



Attendance Sheet of Public Consultation at Jhanjharia Ki Dhani village, Makrana dated 15.09.21

Date: S.No.	Name and	Designation and/or	Topics Discussed	ne project: Sewerage. neultation: Thathay ic. Outcome of the consultation	Signature
5,140.	mobile no.	Address			
1	Thohan Rem	The share	by SOT, publical due to organis	breged infromten breakle and	MENON
2	Kanha Ram Ji	Jhanshran Ki phani	due to ongoing wells . Any other issue	societied with	
3					
1					
5					

Attendance Sheet of Public Consultation at Momminpura Zone -3, Fatehpur dated 24.09.21

	t Town: Fatchpus'		Name of the		
Date:	24-09-21		Place of con		-3 (Road Rentmati
S.No.	Name and mobile no.	Designation and/or Address	Topics Discussed	Outcome of the consultation	Signature
1	Gulpaem	Resident	. fre - Lere traction information Display Board Bryormation Board at Lit; Co-operation of workers	 Details finformation about the projected. Cook was provided to recube religions. 	بالبه 14 كو
2	Fireza	Reider	Supervisors with local visident • Infernation about duration of work competion	 Nearby residuets one happy & Latisfed with proposed pipe laying work 	कियोगा
3	Mr Mustakie	Raidat	. No way for transportation of Vehicles Business being affected / beaper suffering	•	Whatel.
A	Mr Fleshol	Resident	,		Chuler
5	Mor Galleam	Resident-			G
	Prunod and Signature of the p	- Resident' erson who done consults	otion: Buff at of 24	4	1

Attendance Sheet of Public Consultation at Proposed SPS (1.1 MLD) site, Fatehpur dated 24.09.21

Date: 2(-09-2621 S.No. Name and Designation and/or		26 2 Designation and/or	Name of the project: Street age works Place of consultation: The Reality for the Consultation Signature		
1	mobile no.	Address	7.	Part	
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			24092021 By 310121		

APPENDIX 3: COPIES OF ENVIRONMENTAL CLEARANCES AND PERMITS A. Details of Consent to Establish (CTEs) reported in Previous SEMRs

S.No.	Component and Town	Vailidity	Reported in which SEMR
	Name		-
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 2020 to March 2021)
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 2020 to March 2021)
3	2.3 MLD STP at Abhu Road	CTE Issued Valid from 15.02.2021 to 31.01.2026	SEMR (October 2020 to March 2021)
4	6.9 MLD STP at Abhu Road	CTE Issued Valid from 15.02.2021 to 31.01.2026	SEMR (October 2020 to March 2021)
5	10 MLD WTP in Abhu Road	CTE Issued Valid from 15.02.2021 to 31.01.2026	SEMR (October 2020 to March 2021)
6	1.7 MLD STP at Sirohi	CTE Issued Valid from 11.02.2021 to 31.01.2026	SEMR (October 2020 to March 2021)

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 2020 to March 2021)
2	Tree cutting permission for CWR site at PHED Campus in Sardarshahar	SEMR (October 2020 to March 2021)
3	Tree cutting permission for STP site in Pratapgarh	SEMR (October 2020 to March 2021)
4	Tree Cutting permission for CRMC site at Pratapgarh	SEMR (October 2020 to March 2021)
5	Tree Cuttng permission for WTP site at PHED campus, Banswara	SEMR (October 2020 to March 2021)

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 1d = 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 (Provention & 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 (bereinafter 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 Kharra No. 4, 28, XB-11, Derajsar Ratangarb Tehsili-Ratangarb District:Churu , Rajastian 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:-

- 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	Туре	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 Niral Mathur Date: 2021.06.02 15:15:25 IST Reason: SelfAllested Location





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

Registered

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

Order No: 2021-2022/Liquid Waste/1228

Dispatch Date: 03/06/2021

Unit Id : 106823

Type of effluent	Max. effluent generation (KLD)	Quantity of effluent to be recycled (KLD)	Quantity of treated effluent to be disposed (KLD) and mode of disposal
Domestic Sewage	3800.000	NUL	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 Sorface 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	nor 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 of 15,15,25 IST
Reason: SelfAttested
Location:





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 Ocs.
- 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, it 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 Americe. 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 2021.06.08 15;15;25 IST
Reason: SelfAffested
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

Unit 1d : 106823

Dispatch Date: 03/

03/06/2021

This bears the approval of the competent authority.

Yours Sincerely

oup Incharge[Liquid Wast

(A): Copy To:-

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

oup Incharge Liquid Waste

Page 4 of 4

Signature Not Verified Digitally signed by Viral Mathur Date: 2021,06.07 15:15:25 IST Reason: Sell/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 Mi.D

Nagar Palika, Near Ratangarh bus stand , Ratangarb

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

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 Tohsil:Ratangarh District:Churn , 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:

Rage 1 of 4

Signature Not Verified
Digitally signed by Nirsj Mathur
Date: 2021.07.08 12:38:36 IST
Reason: SelfAttested
Location:





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

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	6190.000	NUL	6,100.000 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 Sorface 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	nor 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. 2021.07.08 12:38:36 IST
Reason: SelfAffested
Location:





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

Registered

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

Order No: 2021-2022/Liquid Waste/1240 Dispatch Date: 05/07/2021

Unit Id: 106823

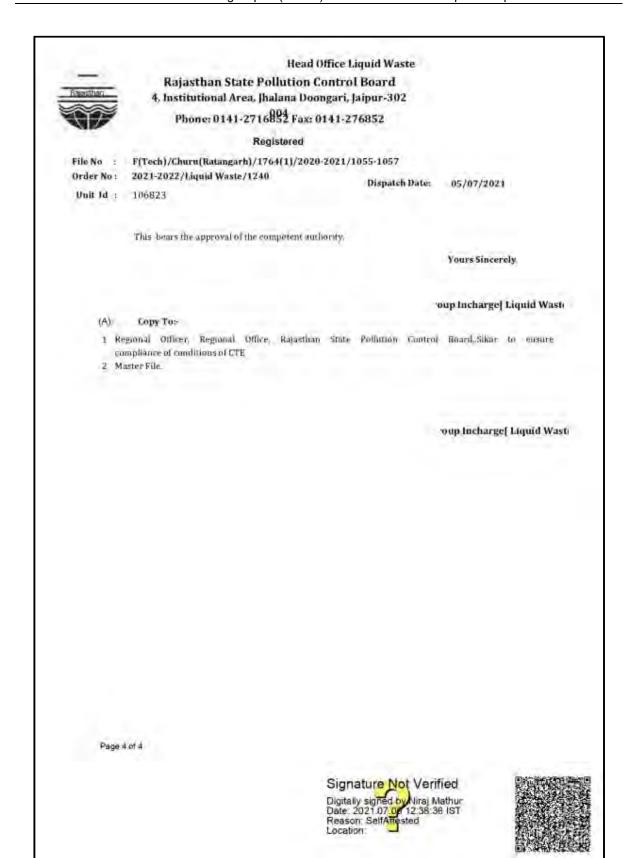
- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 12 That the unit shall undertake plantation of tree species in two rows of suitable species all along the periphery of the site of the STP to control foul smell.
- 13 That above stated effluent standards are subject to the Hon'ble NGT order dated 30/4/2019 in matter of O.A. no 1069/2018 Nitin Shankar Deshpande Vs Union of India and Ors.
- 14 That efforts should be made to reuse the treated sewage to the maximum possible extent and minimize its discharge. A network of pipelines should be laid from the treated sewage collection tank to fields for utilisation.
- 15 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 16 That, not withstanding anything provided heremabove, 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 inforce, 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 Aunexure. The project proponent will comply with the provisions of the Water Act and to such other conditions as may, from time to time, be specified by the State Board under the provisions of the aforesaid Act(s). Please note that, non-compliance of any of the above stated conditions would tantamount to revocation of Consent to Establish and project proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

Page 3 of 4

Signature Not Verified
Digitally signed by Niraj Mathur
Date: 2021 07 05 12:38:36 IST
Reason: SelfAttested
Location:





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



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 1d : 106650

M/s E.O. Municipal Board Fatehpur - Shekhawati (4.3 MLD STF)

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 Art) 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	Туре	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 outs or process or raw material or fuel the project proposent 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 Viraj Mathur
Date: 2021 06 07 15:14:16 IST
Reason: SelfAffested
Location:





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 1d : 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	4390.000	NIE	4,300,000 On Land For Plantation/Horticulture after adequate trestment

6 That the domestic sewage shall be freated 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 mil
N fotal	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 lee 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 Niral Mathur
Date: 2021, 06,08 15:14:16 IST
Reason: Sell Attested
Location:





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

Registered

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

Order No: 2021-2022/Liquid Waste/1230

Unit 1d : 106650

Dispatch Date: 03/06/2021

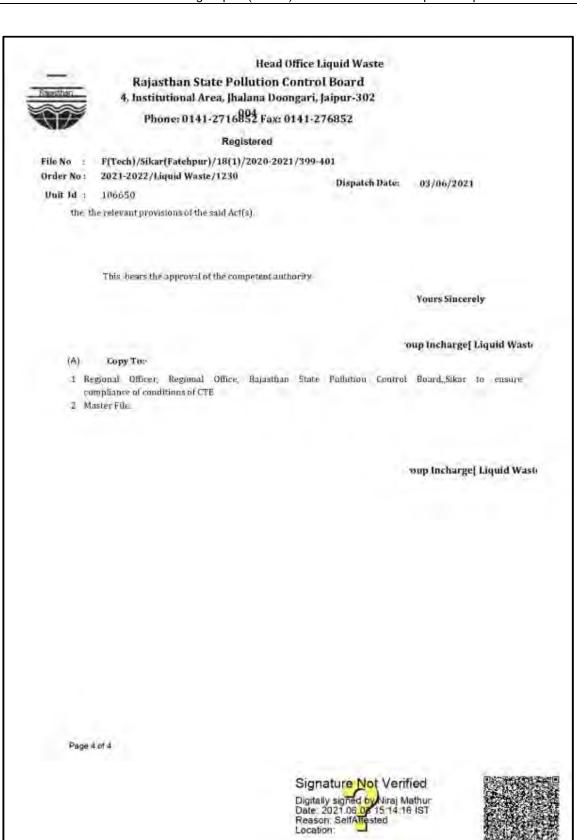
- 9 That no treated/untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/ other gainful purposes.
- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the 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 bereinabove, 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 inforce, 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 fantamount 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 Niral Mathur Date: 2021,06,07 15:14:16 IST Reason: SelfAllested Location:





07/06/2021

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



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

Order No: 2021-2022/Liquid Waste/1235

Dispatch Date:

Unit 1d : 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 Polluton) 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 SMLD plant situated / proposed at Sewage Treatment Plant, Near Nebru 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 Entablish 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 (ollowing activities or operation/processes or providing following services with capacities given below.

Particular	Туре	Quantity / Capacity
Sewage Treatment Plant	Service	5.00 MLD

- 3 That in case of any increase in capacity or addition / modification / alrestation 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 Viral Mathur Date: 2021.06.07 15:18:02 IST Reason: SelfAffested Location:





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: 07/06/2

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 potitied 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
Freal 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.
- B 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/borticulture/ other gainful purposes.

Page 2 of 4

Signature Not Verified
Digitally signed by Niraj Mathur
Date: 2021.06.07 15:18-02 IST
Reason: SelfAllested
Location:



07/06/2021



Head Office Liquid Waste

Rajasthan State Pollution Control Board 4, Institutional Area, Jhalana Doongari, Jaipur-302 Phone: 0141-2716952 Fax: 0141-276852

Registered

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

Order No: 2021-2022/Liquid Waste/1235 Dispatch Date:

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 inforce 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 Niral Mathur
Date: 2021.06.07 15:18:02 IST
Reason: SelfAttested
Location:





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

Registered

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

Order No: 2021-2022/Liquid Waste/1235

Unit Id : 109656

Dispatch Date: 07/06/2021

This bears the approval of the competent authority.

Yours Sincerely

oup Incharge[Liquid Waste

(A) Copy To-

- I Regional Officer, Regional Office, Adjustinan State Pollution Control Board, Palli to ensure compliance of conditions of CTE
- 2 Master File

oup Incharge| Liquid Wast-

Page 4 of 4

Signature Not Verified
Digitally signed by Niraj Mathur
Date: 2021.06.07 15:18:02 IST
Reason: SelfAffested
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/Sirohl/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 Polintion]

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. L974 (hereinafter to be referred as the Water Act) as amended to date and rules & the orders issued thereunder Js hereby granted for your Water Treatment Plant 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:

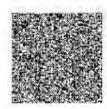
- 1 That this Consent to Establish is valid for a period from 31/03/2021 to 28/02/2026 or date of Commencement of production / commissioning of the project or activities whichever is earlier.
 - 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below.

Particular	Туре	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.
- 1 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 Panul Sharma Date: 2021.09.28 5:06:48 IST Reason: SelfAlterled 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

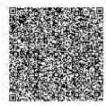
Unit 1d : 110752

Dispatch Date: 28/09/2021

- 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-19B1 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 compiled 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 Bahul Sharma Date: 2021.09.28,75:06:48 IST Reason: SelfAttested





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

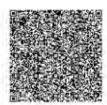
Unit ld : 110752

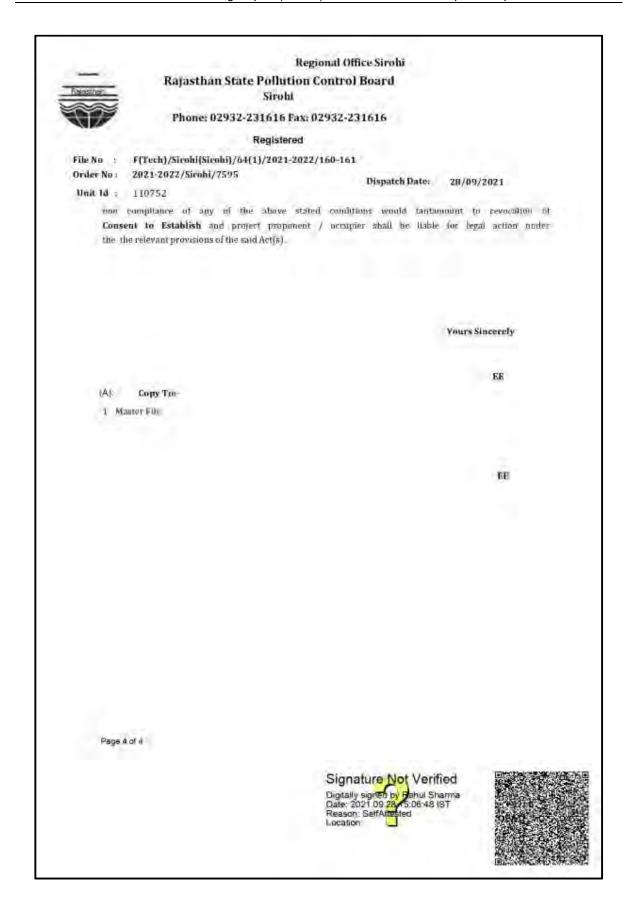
- 15 That the industry shall ensure that noise from the unit does not exceed the prescribed noise standards for industrial area i.e. 75 dR(A) Leq during day time and 70 dB(A) Leq during night time to meet the prescribed ambient noise standards. Day time is reckoned in between 6 A.M. and 9 P.M. and nighttime 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
- 20 That unit shall comply with standards, with respect to drinking water, as prescribed by the Bureau of Indian Standards in 15 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, 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 it 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 inforce, 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 some by Pahul Sharma Date: 2021 09 28 / 5:06:48 IST Reason: SelfAtte-ted 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, Phone 9874464455 Fix: Pansyorg



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 (heremafter to be referred as the Water Act) as amended to date and cules & 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	Туре	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 efficient generation and disposal along with mode of disposal for the treated efficient shall be as an der

Page 1 of 4

Signature Not Verified
Digitally signed by As lish Kumar
Bautasi
Dete: 2021.10.11—8:48:13 IST
Reason: SelfAttestyd





Regional Office Banswara

Rajasthan State Pollution Control Board Choudhary Campus, Near Durga Petrol Pump, PHONE 9 RP44 6 THES FIXE BUNNEY 999

Registered

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

Order No: 2021-2022/Banswara/6735

Unit Jd : 113267

Dispatch Date: 14/10/2021

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/florticulture 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 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 As lish Kumar
Bauriss
Date: 2021 10.11 —8.48-13.IST
Reason: SelfAttested
Location:



14/10/2021



Regional Office Banswara

Rajasthan State Pollution Control Board Choudhary Campus, Near Durga Petrol Pump, Phone J RA 4 6 This says January 1999

Registered

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

Order No: 2021-2022/Banswara/6735 Dispatch Date:

Unit Id : 113267

- 10 That the sludge will be properly digested, do-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 pfl, 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 a

Signature Not Verified
Digitally signed by Asyliah Kumar
Baurasi
Date: 2021 10.14 48:48:13 IST
Reason: SelfAttested
Location:



14/10/2021



Regional Office Banswara

Rajasthan State Pollution Control Board Choudhary Campus, Near Durga Petrol Pump, phoney Rpade Thiles Fixa Raysyourage

Registered

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

Order No: 2021-2022/Banswara/6735

Dispatch Date:

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 Amexice. The project proposent 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 Too

1 Master File

EE

Page 4 of 4

Signature Not Verified
Digitally signed by Asylish Kumar
Baurasi
Date: 2021.10.14—8:48:13 IST
Reason: SelfAttested
Location:



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



Head Office Liquid Waste

Rajasthan State Pollution Control Board 4, Institutional Area, Jhalana Doongari, Jaipur-302

Phone: 0141-2716852 Fax: 0141-276852

Registered

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

Order No: 2021-2022/Liquid Waste/1234 Dispatch Date: 07/06/2021

Unit Id : 111078

M/s Municipal Council Pratapgarh Municipal Council, , Pratapgarh

Sub: Consent to Establish under section 25/26 of the Water [Prevention & Control of Polintion] Act, 1974.

Refi Your application(s) for Consent to Establish dated 16/03/2021 and subsequent correspondence.

Sir.

Control of Pollution) Act. 1974 (hereinafter to be referred at the Water Act) as amended to date and rules & the orders issued thereunder is hereby granted for your 7 MLD Sewage Treatment Plant situated / proposed at 7 MLD STP, Jain Gosala, Kila Road Pratapgarh Rajasthan Tehsil:Pratapgarh District:Pratapgarh . Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:

- 1 That this Consent to Establish is valid for a period from 16/03/2021 to 28/02/2026 or date of Commencement of production / commissioning of the project or activities whichever is earlier.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below.

Particular	Туре	Quantity / Capacity
Sawage 'Freatment Plant	Service	7.00 MLD

- 3 That is case of any increase in capacity or addition / modification / alteration or change in product mix or process or raw material or hard 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 Viraj Methur
Date: 2021.06.07 15:17:40 IST
Reason: SelfAffested
Location:





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	NUL	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 Sorface Water. The main parameters for regular monitoring shall be as under.

Parameters	Standards Between 5.5 to 9.0	
pH Value		
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	nor 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: SelfAttested
Location:





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 ld : 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 Deshponde 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 Proposent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 125 KVA.
- 17 That, not withstanding anything provided hereinabove, the State Board shall have power and reserves its right, as contained section 27(2) of the Water Act to review anyone or all the conditions imposed here in above and to make such variation as it deemed fit for the purpose of compliance of the Water Act.
- 18 That the grant of this Consent to Establish is issued from the environmental angle only and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being inforce, 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 Amexure. 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 fantamount 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: SelfAffested
Location:





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 fd : 111078

This bears the approval of the competent authority.

Yours Sincerely

oup Incharge[Liquid Wast

(A): Copy To:

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

oup Incharge[Liquid Waste

Page 4 of 4

Signature Not Verified
Digitally signed by Niraj Mathur
Date: 2021.06.07 15:17:40 IST
Reason: SelfAllested
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 1d: 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	Туре	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 Viral Mathur
Date: 2021.03.28 14:49:14 IST
Reason: SelfAttested
Location:





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 1d : 109985

- 10 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 11 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 12 That the unit shall undertake plantation in two rows of suitable species all along the periphery of the site of the STP to control foul smell.
- 13 That above stated effluent standards are subject to the Hon'ble NGT order dated 30/4/2019 in matter of O.A. no 1069/2018 Nitin Shankar Deshpande Vs Union of India and Ors.
- 14 That efforts should be made to reuse the treated sewage to the maximum possible extent and minimize its discharge. A network of pipelines should be laid from the treated sewage collection tank to fields for utilisation.
- 15 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 16 That Project Proponent shall apply for Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 180 KVA.
- 17 That, not withstanding anything provided Bereinabove, 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 inforce, rests with the industry/unit/project proponent.
- 19 That the grant of this Consent to Establish shall not, in any way, adversely affect or jeopardize the legal proceedings, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Act or the Rules made thereunder.

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

Page 3 of 4

Signature Not Verified
Digitally signed by Viraj Mathur
Date: 2021 03:28 14:49:14 IST
Reason: SelfAffested
Location:





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

Unit 1d : 109985

Dispatch Date: 26

26/03/2021

This bears the approval of the competent authority.

Yours Sincerely

oup Incharge[Liquid Wast-

(A): Copy To:-

 Regional Officer, Regional Office, Rajasthan State Pollution Control Board, kishangarh to epsage compliance of conditions of CTE

2 Muster File.

oup Incharge[Liquid Wash

Page 4 of 4

Signature Not Verified
Digitally signed by Viral Mathur
Date: 2021.03.28 14:49:14 IST
Reason: SelfAffested
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 1d : 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 Pollotton) 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	Туре	Quantity / Capacity
Sewage Treatment Plant	Service	7,600.00 RLD

- 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 Viral Mathur Date: 2021.03 28 14:48:28 IST Reason: SelfAttested Location:





Rajasthan State Pollution Control Board 4, Institutional Area, Jhalana Doengari, 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

Unit 1d : 109843

Dispatch Date: 26/03/2021

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 efficient 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 dáys at 27C)	Not to exceed 10 mg/l
Chemical Oxygen Demand	Not to exceed 50 mg/l
ecal Coliforni	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: 2021.03.25 14:48:28 IST
Reason: SelfAffested
Location:



26/03/2021



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:

Unit 1d : 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 studge.
- 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 faid down in all other laws for the time-being inforce, 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, he 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 Viraj Mathur
Date: 2021.03.28 14:48:28 IST
Reason; SelfATested
Location:





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 compilance 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

oup Incharge[Liquid Wast

(A). Copy To:

- Regional Officer, Regional Office. Rajasthao State Pollucion Control Board, Kishangarh to ensure compilance of conditions of CTE.
- Z Master Fife

oup incharge| Liquid Wast

Page 4 of 4

Signature Not Verified
Digitally signed by Viraj Mathur
Date. 2021,03.28 14:48:28 IST
Reason: SelfAffested
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 1d : 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)

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 humished 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	Туре	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 Viraj Mathur
Date: 2021.03.09 16:08:07 IST
Reason: SelfAffested
Location:





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

Registered

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

Order No: 2020-2021/Liquid Waste/1205

Unit 1d : 109723

Dispatch Date: 09/03/2021

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 doinestic sewage shall be treated before disposal so as to conform to the standards prescribed by the Board as notified under the Bovironment [Protection] Act-1966 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
Fecai Coliform	not to exceed 230 MPN/100 mi
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: 2021,03.07 16:08:07 IST
Reason: Sell Attested
Location:





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 ld : 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 loui 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 inforce, 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 Roles made the counter.

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: 2021.03.08 16:08:07 IST
Reason: SelfAffested
Location:





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

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

oup Incharge[Liquid Wast

(A). Copy To:-

- Regional Officer, Regional Office, Rajasthan State Follution Control Board, Rishangarh to ensure compliance of conditions of CTE.
- 2 Master File.

oup Incharge[Liquid Waste

Page 4 of 4

Signature Not Verified
Digitally signed by Viraj Methur
Date: 2021.03.07 16:08:07 IST
Reason: SelfAttested
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.

26/03/2021

Unit Id : 109853

M/s MUNICIPAL COUNCIL, MAKRANA

MUNICIPAL COUNCIL, MAKRANA NEAR GOVT HOSPITAL ROAD MAKRANA, MAKRANA

Tehsil:MAKRANA District:NAGAUR

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

Ret: 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 (hereinalter 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 I MAKRANA MAKRANA Tehsil:Makrana District:Nagaur Rajastian 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 Virial Mathur
Date: 2021.03.28 14:50:32 IST
Reason; SelfAllested
Location:



26/03/2021



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:

Unit 1d : 109853

 That the quantity of effluent generation and disposal along with mode of disposal for the treated eithent shall be as under.

Type of effluent	Max. effluent generation (KLD)	Quantity of effluent to be recycled (KLD)	Quantity of treated effluent to be disposed (KLD) and mode of disposal
Domestic Sewage	7700.000	NIL	7,700.000 On Land For Plantation/Horticulture after adequate treatment

6 That the doinestic 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
bosphate 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
Fecai Coliform	not to exceed 230 MPN/100 mi
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: 2021,03.28 14:50:32 IST
Reason: Sell/Affested
Location:



26/03/2021



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 Disputch Date:

Unit ld : 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 loui 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 inforce, 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 Roles made the counter.

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: 2021.03.28 14:50:32 IST
Reason: SelfAffested
Location:





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

2020-2021/hiquid Waste/1214 Dispatch Date:

Unit 1d : 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

26/03/2021

oup Incharge[Liquid Waste

(A): Copy To:-

- Regional Officer, Regional Office, Rajasthan State Pollution Control Board, Kishangarh in ensure compilance of conditions of CTE.
- 2 Master File

oup Incharge[Liquid Waste

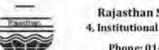
Page 4 of 4

Signature Not Verified Digitally signed by Viraj Mathur Date: 2021 03:28 14:50:32 IST Reason: Self-Allested Location:



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





Rajasthan State Pollution Control Board 4, Institutional Arca, Jhalana Doongari, Jaipur-302

Phone: 0141-2716852 Fax: 0141-276852

Registered

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

Order No : 2020-2021/Liquid Waste/1204 Dispatch Date: 05/03/2021

Unit Id : 110250

M/s Municipal Council, Khetri

Municipal Council, Main Market, Sabji Mandi, Ward

no. 8. Khetri , Ihunjhunu

ab: 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

5ir.

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 Tehsili-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 readditions:

- 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 capacitles given below.

Particular	Type	Quantity / Capacity
Sewage Treatment Plant	Service	3,100.00 KLD

- 5 That is 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: 2021.03.07 12:09:47 IST
Reason: SelfAffested
Location:





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 ld : 110250

Dispatch Date: 05/03/2021

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/florticulture after adequate trestment

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
oH 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
ecal 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 Viral Mathur
Date: 2021 03.08 12.09 47 IST
Reason: SelfAffested
Location:





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

Registered

ile No | F(Tech)/Jhunjhunu(Khetri)/88(1)/2020-2021/5645-5647

Order No : 2020-2021/Liquid Waste/1204 Dispatch Date: 05/03/2021

Unit ld + 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, 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 Roles made thereunder.

This Consent to Establish shall also be subject, beside the aforesaid specific conditions, to the general conditions given in the enclosed Americae. 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 06 12:09:47 IST
Reason; SelfAttested
Location:





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 1d : 110250

Dispatch Date: 05/03/2021

non compliance of any of the above stated conditions would fantamount 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

oup Incharge[Liquid Waste

(A) Copy To:-

- Regional Officer, Regional Office, Rajasthan State Pullation Control Board, Sikar to ensure compliance of conditions of CTS.
- 2 Master File.

oup Incharge[Liquid Wast-

Page 4 of 4

Signature Not Verified
Digitally signed by Viraj Mathur
Date: 2021.03.06 12:09:47 IST
Reason: SelfAffested
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 1d : 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 crestment

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
oH Value	Between 5.5 to 9.0
hosphate as P	Not to exceed 1.0 mg/l
tiochemical Oxygen Demand (3 days at 27C)	Not to exceed 10 mg/l
hemical Oxygen Demand	Not to exceed 50 mg/l
Fecal Coliform	not to exceed 230 MPN/100 mil
N fotal	10 mg/l

- 7 In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.
- If 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: 2021,03.06 12:08:24 IST
Reason: Self Alfested
Location:



05/03/2021



Head Office Liquid Waste

Dispatch Date:

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

Unit 1d : 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, 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 inforce, 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 Roles made the counter.

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: SelfAffested
Location:





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

oup Incharge[Liquid Waste

(A): Copy To:-

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

oup Incharge[Liquid Waste

Page 4 of 4

Signature Not Verified
Digitally signed by Virsi Mathur
Date: 2021.03.07 12:08.24 IST
Reason: SelfAffested
Location:



APPENDIX 4: ENVIRONMENTAL SITE INSPECTION REPORTS Report No.1

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project Sub-project Name – Didwana Sewerage Sub Project	CONTRACT NUMBI	ER: RS	TDIP/D	ID/01	
DATE: 14.09.2021	SECTOR: Sewerage				
LOCATION (Name of Sites Visited): 200 mm DWC sewer pipe laying and manhole works at Zone 5, near RSEB office, Workers camp and storage yard and at Mohandas ka Bas, near Shamshan Bhoomi, Didwana	Contractor: M/s Lar		Toubro	Limite	d.
WEATHER: Clear PROJECT ACTIVITY: Laying of Sewer pipe	Project Activity Sta Site visit done I Environment Specia Srivastava, Environn	by- Mr list, PM	1CBC a	ınd Mr.	Vardan
Monitoring Items	Compliance	VEO	NO	N.A.	DI
Compliance marked as Yes/No/Not app Implemented(PI)	nicable(NA)/Partially	TES	NO	NA	PI
EHS supervisor appointed by contractor and ava	ilable on site	V			
Construction site management plan (spoils equipment etc.,) prepared			V		
Traffic management plan prepared			√		
Dust is under control		$\sqrt{}$			
Excavated soil properly placed within minimum s	pace	V			
Construction area is confined; no traffic/pedestria	an entry observed	\checkmark			
Surplus soil/debris/waste is disposed without del	ay	V			
Construction material (sand/gravel/aggregate) when required only	brought to site as &	V			
Tarpaulins used to cover sand & other to transported by vehicles	oose material when		$\sqrt{}$		
After unloading , wheels & undercarriage of veh leaving the site	icles cleaned prior to		V		
No chance finds encountered during excavation		$\sqrt{}$			
Work is planned in consultation with traffic police		√			
Work is not being conducted during heavy traffic		$\sqrt{}$			
Work at a stretch is completed within a day (exceedackfilling)		V			
Pipe trenches are not kept open unduly		√ 			
Road is not completely closed; work is conductione line is kept open	ted on edge; at least	$\sqrt{}$			
Road is closed; alternative route provided information board provided	& public informed,	V			
Pedestrian access to houses is not blocked due	to pipe laying	V			

Rajasthan Secondary Towns Development Sector Project (RSTDSP)

Spaces left in between trenches for access	$\sqrt{}$			
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	$\sqrt{}$			
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)	$\sqrt{}$			
Workers conducting or near heavy noise work is provided with ear muffs			√	
Contractor is following standard & safe construction practices	V			
Deep excavation is conducted with land slip/protection measures	√			
First aid facilities are available on site and workers informed		V		
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	V			
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 environment related issues.

Overall performance of contractor- Satisfactory

Report No.2

PROJECT NAME: Rajasthan Secondary	CONTRACT NUMBER	R: RSTI	OIP/KM	N/02	
Towns Development Sector Project					
Sub-project Name - Kuchaman Water					
supply and Sewerage Project					
DATE: 15.09.2021	SECTOR: Water Supply & Sewerage				
LOCATION (Name of Sites Visited): 90 mm	Contractor: M/s Larse	en & To	oubro L	imited.	
HDPE water supply pipe laying works near					
Kuchaman Valley, 200 mm DWC sewer pipe					
laying and manhole works at Balaji vihar					
Colony and Workers camp and storage yard					
at Panchwa road, Kuchaman	Due le et Aethelte Otene	_			
WEATHER: Clear	Project Activity Stage		م ما ما ۸	0	4
DBO IECT ACTIVITY, Dine leving for water	Site visit done b				
PROJECT ACTIVITY: Pipe laying for water	Environment Specialis				
supply and sewerage, work camps Monitoring Items	Srivastava, Environme Compliance	nt profe	2 881011a	i, CiviSC	<i>y</i> -1
	pplicable(NA)/Partially	VEQ	NO	NA	PI
Implemented(PI)	pplicable (NA)/Faitially	123	NO	NA	г
EHS supervisor appointed by contractor and a	vailable on site	1			
Construction site management plan (spo			V		
equipment etc.,) prepared	mo, carety, corrodato,		,		
7.1			√		
Traffic management plan prepared		√	,		
Dust is under control		·			
Excavated soil properly placed within minimum	ı space	√ 			
Construction area is confined; no traffic/pedest	trian entry observed	√ 			
Surplus soil/debris/waste is disposed without d	lelav	$\sqrt{}$			
Construction material (sand/gravel/aggregate		√			
when required only	, 1 g	,			
Tarpaulins used to cover sand & other	loose material when	√			
transported by vehicles					
After unloading, wheels & undercarriage of vertical	ehicles cleaned prior to			√	
leaving the site	•			٧	
No chance finds encountered during excavatio	n			$\sqrt{}$	
Work is planned in consultation with traffic poli	ce	$\sqrt{}$			
VA/	c : _	√			
Work is not being conducted during heavy traff		-1			
Work at a stretch is completed within a day (ex	xcavation, pipe laying &	$\sqrt{}$			
backfilling)		√			
Pipe trenches are not kept open unduly		V			
Road is not completely closed; work is condu	ucted on edge; at least	√			
one line is kept open	_				
Road is closed; alternative route provide	d & public informed,			√	
information board provided				,	
Pedestrian access to houses is not blocked du	e to nine laving				
1 Cacaman access to nouses is not biocked du	o to pipe laying		l	i l	

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	$\sqrt{}$			
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)	$\sqrt{}$			
Workers conducting or near heavy noise work is provided with ear muffs			√	
Contractor is following standard & safe construction practices	$\sqrt{}$			
Deep excavation is conducted with land slip/protection measures	√			
First aid facilities are available on site and workers informed		V		
Drinking water provided at the site		√		
Toilet facility provided at the site		V		
Separate toilet facility is provided for women workers	,	V		
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	$\sqrt{}$			
No noisy work is conducted in the nights	$\sqrt{}$			
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 No.4

,	CONTRACT NUMBER	R: RST	OIP/MK	N/01	
Towns Development Sector Project					
Sub-project Name – Mandawa Water Supply Subproject					
	SECTOR: Water Supp	olv			
	Contractor: M/s Larse		ubro L	imited.	
WEATHER: Clear & Sunny	Project Activity Stage)-			
PROJECT ACTIVITY:	Environment profession		Varda ISC-I	n Sriv	astava,
	Compliance				
Compliance marked as Yes/No/Not ap Implemented(PI)	plicable(NA)/Partially		NO	NA	PI
EHS supervisor appointed by contractor and av	ailable on site	$\sqrt{}$			
Construction site management plan (spoil equipment etc.,) prepared		V			
Traffic management plan prepared			\checkmark		
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) when required only	brought to site as &	$\sqrt{}$			
Tarpaulins used to cover sand & other transported by vehicles	loose material when		V		
After unloading , wheels & undercarriage of ve leaving the site	hicles cleaned prior to		V		
No chance finds encountered during excavation	1	V			
Work is planned in consultation with traffic police	e		√		
Work is not being conducted during heavy traffic		√ 			
Work at a stretch is completed within a day (exbackfilling)	cavation, pipe laying &	V			
Pipe trenches are not kept open unduly		$\sqrt{}$			
Road is not completely closed; work is conductione line is kept open	cted on edge; at least				
Road is closed; alternative route provided information board provided	l & public informed,	√			
Pedestrian access to houses is not blocked due	e to pipe laying		√		
Spaces left in between trenches for access		√			
Wooden planks/metal sheets provided across tr	rench for pedestrian		√		
No public/unauthorized entry observed in work	site	$\sqrt{}$			

Children safety measures (barricades, security) in place at works in residential areas	V			
Prior public information provided about the work, schedule and disturbances	V			
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)	V			
Workers conducting or near heavy noise work is provided with ear muffs				
Contractor is following standard & safe construction practices	V			
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	V			
Toilet facility provided at the site		√		
Separate toilet facility is provided for women workers				
Workers camps are maintained cleanly	V			
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	V			
Sufficient water provided for drinking/washing/bath	V			
No noisy work is conducted in the nights	V			
Local people informed of noisy work	V			
No blasting activity conducted			√	
Pneumatic drills or other equipment creating vibration is not used near old/risky buildings			V	

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 Sub-project Name – Makrana Waste Water Project	CONTRACT NUMBER	R: RSTI	OIP/MD	W/03	
DATE : 21.10.2021	SECTOR: Water Sup	ply			
LOCATION (Name of Sites Visited): 200	Contractor: M/s LNA-		V)		
mm DWC sewer pipe laying and manhole		•	,		
works at Jhanjharia Ki Dhani village,					
Makrana					
WEATHER: Clear & Sunny	Project Activity Stage	9-			
PROJECT ACTIVITY: 90 mm HDPE water	Site visit done b	v- Mr	Ahha	av Sriv	astava
supply pipe laying works near Ramgarh	Environment Specialis				
Road ward no-19 Mandawa	Srivastava, Environme				
Monitoring Items	Compliance	in proid	233101141	i, Oivioc	<u>/-1</u>
Compliance marked as Yes/No/Not a		VEQ	NO	NA	PI
Implemented(PI)	pplicable (14A)/1 artially	123	140	NA.	
EHS supervisor appointed by contractor and a	vailable on site	√			
Construction site management plan (spot equipment etc.,) prepared		√			
Traffic management plan prepared			√		
Dust is under control		√			
		√			
Excavated soil properly placed within minimum		√			
Construction area is confined; no traffic/pedest	•		√		
Surplus soil/debris/waste is disposed without d			·V		
Construction material (sand/gravel/aggregate) when required only) brought to site as &	√			
Tarpaulins used to cover sand & other I	oose materials when		$\sqrt{}$		
transported by vehicles			,		
After unloading, wheels & undercarriage of velleaving the site	ehicles cleaned prior to		$\sqrt{}$		
No chance finds encountered during excavation	n	V			
Work is planned in consultation with traffic poli			√		
Work is not being conducted during heavy traff		√			
Work at a stretch is completed within a day (1			
& backfilling)		,			
Pipe trenches are not kept open unduly		√			
Road is not completely closed; work is condu	icted on edge; at least				
Road is closed; alternative route provided	d & public informed,	√			
information board provided					
Pedestrian access to houses is not blocked du	e to pipe laying		V		
Spaces left in between trenches for access		$\sqrt{}$			

			_	
Wooden planks/metal sheets provided across trench for pedestrian		V		
No public/unauthorized entry observed in work site				
Children safety measures (barricades, security) in place at works in residential areas	$\sqrt{}$			
Prior public information provided about the work, schedule and disturbances	V			
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		V		
Contractor is following standard & safe construction practices	$\sqrt{}$			
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 (repetition)	V			
Toilet facility provided at the site		√		
Separate toilet facility is provided for women workers		√		
Workers camps are maintained cleanly	$\sqrt{}$			
Adequate toilet & bath facilities provided	√			
Contractor employed local workers as far as possible	√			
Workers camp set up with the permission of PIU	$\sqrt{}$			
Adequate housing provided	$\sqrt{}$			
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			\checkmark	

Summary of safeguard compliance of contractor- Contractor is taking working with taking safety arrangement but required more safety sign boards and hard barricading's. Disposal of the excavated material is a serious concern.

Overall performance of contractor- Satisfactory

Report: 06

	port : 00				
,	CONTRACT NUMBER	R: RSTE	OIP/MD	W/03	
Towns Development Sector Project					
Sub-project Name – Mandawa Sewerage and Water Supply work					
DATE: 21.10.2021	SECTOR: Soworage				
	SECTOR: Sewerage	DOD/I			
	Contractor: M/s LNA-	K&B(J	V)		
Sewerage zone – 01 Near Bishaoo Road.	Desired Asti Manager				
WEATHER: Clear & Sunny	Project Activity Stage)-			
				<u> </u>	
PROJECT ACTIVITY: Sewerage pipe laying	Site visit done by			in Sriva	astava,
work at Zone-01.	Environment professio	nal, CN	ISC-I		
	Compliance				
Compliance marked as Yes/No/Not ap Implemented(PI)	plicable(NA)/Partially	YES	NO	NA	PI
EHS supervisor appointed by contractor and av	ailable on site	$\sqrt{}$			
Construction site management plan (spoils			$\sqrt{}$		
equipment etc.,) prepared					
Traffic management plan prepared			√		
Dust is under control		V	·		
Excavated soil properly placed within minimum space		V			
Construction area is confined; no traffic/pedestrian entry observed		\			
Surplus soil/debris/waste is disposed without delay		V	√		
Construction material (sand/gravel/aggregate) brought to site as &		V	V		
when required only		V			
Tarpaulins used to cover sand & other loose material when transported by vehicles			√		
After unloading , wheels & undercarriage of vehicles cleaned prior to			V		
leaving the site	nicies cicarica prior to		`		
No chance finds encountered during excavation	,	V			
Work is planned in consultation with traffic police		1			
Work is not being conducted during heavy traffi		√ √			
		√ √			
Work at a stretch is completed within a day (e. & backfilling)	xcavation, pipe laying	٧			
Pipe trenches are not kept open unduly		$\sqrt{}$			
Road is not completely closed; work is conductive	cted on edge; at least	$\sqrt{}$			
one line is kept open					
Road is closed; alternative route provided	& public informed,		\checkmark		
information board provided					
Pedestrian access to houses is not blocked due	e to pipe laying	V			
Spaces left in between trenches for access		V			
Wooden planks/metal sheets provided across to	rench for pedestrian		V		
No public/unauthorized entry observed in work		V			
Children safety measures (barricades, security		V			
residential areas	,	,			
Prior public information provided about the disturbances	work, schedule and		V		
Caution/warning board provided on site		V			
Guards with red flag provided during work at bu	sv roads	,		$\sqrt{}$	
Workers using appropriate PPE (boots, glove:		V		,	
etc)	o, nominoto, our muno	•			

Workers conducting or near heavy noise work is provided with ear muffs			√ V	
Contractor is following standard & safe construction practices	V			
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	1			
Toilet facility provided at the site		√		
Separate toilet facility is provided for women workers		$\sqrt{}$		
Workers camps are maintained cleanly	V			
Adequate toilet & bath facilities provided	1			
Contractor employed local workers as far as possible	V			
Workers camp set up with the permission of PIU	V			
Adequate housing provided	1			
Sufficient water provided for drinking/washing/bath	V			
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			V	

Summary of safeguard compliance of contractor- Contractor is taking working with taking safety arrangement but required more safety sign boards and hard barricading's. Disposal of the excavated material is a serious concern.

Overall performance of contractor- Satisfactory

Report No.7

PROJECT NAME: Rajasthan Secondary	CONTRACT NUMBER	R: RST	DIP/SHI	₹/01	
Towns Development Sector Project					
Sub-project Name – Sirohi Water Supply and Sewerage works					
DATE: 09.04.2021	SECTOR: Water Supp	ly and	Sewera	ne	
LOCATION (Name of Sites Visited): Pipe	Contractor: L&T	ny ana '	ocwera	gc	
laying site for water supply and Labour	Contractor. Ear				
Camp, Sirohi					
WEATHER: Clear and Sunny	Project Activity Stage	- Con	structio	on	
PROJECT ACTIVITY: Pipe Laying	Site visit done			haveer	Saini,
	Environment Profession				
	Team Leader, CMSC				
	(Social Safeguard Prof				
Monitoring Items	Compliance			•	
Compliance marked as Yes/No/Not ap	plicable(NA)/Partially	YES	NO	NA	PI
Implemented(PI)					
EHS supervisor appointed by contractor and av	ailable on site	V			
Construction site management plan (spoi	ls, safety, schedule,	√			
equipment etc.,) prepared	•				
Traffic management plan prepared					
Dust is under control		\checkmark			
Excavated soil properly placed within minimum	space				1
Construction area is confined; no traffic/pedestr	rian entry observed	$\sqrt{}$			
Surplus soil/debris/waste is disposed without de					V
Construction material (sand/gravel/aggregate)	brought to site as &				
when required only	· ·				
Tarpaulins used to cover sand & other	loose material when				V
transported by vehicles					
After unloading, wheels & undercarriage of ve	chicles cleaned prior to				V
leaving the site					
No chance finds encountered during excavation		$\sqrt{}$			
Work is planned in consultation with traffic police	e				
Work is not being conducted during heavy traffi		$\sqrt{}$			
Work at a stretch is completed within a day (ex	cavation, pipe laying &				\checkmark
backfilling)					
Pipe trenches are not kept open unduly		$\sqrt{}$			
Road is not completely closed; work is condu	cted on edge; at least				
one line is kept open					
Road is closed; alternative route provided	d & public informed,				
information board provided					
Pedestrian access to houses is not blocked due	e to pipe laying				V
Spaces left in between trenches for access		$\sqrt{}$			
Wooden planks/metal sheets provided across to		,			V
No public/unauthorized entry observed in work		√			
Children safety measures (barricades, security	y) in place at works in	~			
residential areas		,			
Prior public information provided about the	work, schedule and	$\sqrt{}$			
disturbances					,
Caution/warning board provided on site					1
Guards with red flag provided during work at bu					√
Workers using appropriate PPE (boots, glove	es. helmets. ear muffs				V

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	V		
First aid facilities are available on site and workers informed	V		
Drinking water provided at the site	√		
Deep excavation is conducted with land slip/protection measures			
First aid facilities are available onsite and workers informed	V		
Drinking water provided at the site	V		
Toilet facility provided at the site		√	
Separate toilet facility is provided for women workers		V	
Workers camps are maintained cleanly			1
Adequate toilet & bath facilities provided			
Contractor employed local workers as far as possible			\
Workers camp set up with the permission of PIU	V		
Adequate housing provided	V		
Sufficient water provided for drinking/washing/bath	√		
No noisy work is conducted in the nights	√		
Local people informed of noisy work		V	
No blasting activity conducted	V		
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 No.8

Report No.8					
PROJECT NAME: Rajasthan Secondary Towns Development Sector Project					
Sub-project Name – Banswara Water Supply and Sewerage Works					
	SECTOR: Water Supply and Sewerage				
, , ,	Contractor: L&T				
mm DWC sewage pipe laying and					
manhole work at Sri Ram Colony and Worker Camp near Kagdi Gate 5,					
Banswara					
WEATHER: Clear & Sunny	Project Activity Stage- Construction				
, , , , ,		-	r. Ma	haveer	Saini,
	Environment Professio	nal, CN	/ISC-II		
Monitoring Items Compliance marked as Yes/No/Not app	Compliance	VEC	NO	NA	PI
Implemented(PI)	. , ,	163		NA	PI
EHS supervisor appointed by contractor and ava			/		
Construction site management plan (spoils	s, safety, schedule,	~			
equipment etc.,) prepared					~
Traffic management plan prepared Dust is under control		V			
	0000	~			
Excavated soil properly placed within minimum		•			~
Construction area is confined; no traffic/pedestri	•				V
Surplus soil/debris/waste is disposed without de Construction material (sand/gravel/aggregate)		~			
when required only	brought to site as &	•			
Tarpaulins used to cover sand & other I	loose material when				V
transported by vehicles					
After unloading, wheels & undercarriage of velleaving the site	hicles cleaned prior to				~
No chance finds encountered during excavation		~			
Work is planned in consultation with traffic police		~			
Work is not being conducted during heavy traffic		•	V		
Work at a stretch is completed within a day (exc					/
backfilling)	savadon, pipo laying a				
Pipe trenches are not kept open unduly		V			
Road is not completely closed; work is conduct	cted on edge; at least	~			
one line is kept open	-				
Road is closed; alternative route provided	& public informed,				~
information board provided					4
Pedestrian access to houses is not blocked due	to pipe laying				/
Spaces left in between trenches for access	1.6	~			
Wooden planks/metal sheets provided across tre					V
No public/unauthorized entry observed in work s		V			4
Children safety measures (barricades, security residential areas) in place at works in				
I COIUCIILIAI AI CAO					l

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			V
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			V
Deep excavation is conducted with land slip/protection measures	V		
First aid facilities are available on site and workers informed	V		
Drinking water provided at the site	V		
Deep excavation is conducted with land slip/protection measures			V
First aid facilities are available onsite and workers informed		V	
Drinking water provided at the site			V
Toilet facility provided at the site		/	
Separate toilet facility is provided for women workers		/	
Workers camps are maintained cleanly		V	
Adequate toilet & bath facilities provided		V	
Contractor employed local workers as far as possible			V
Workers camp set up with the permission of PIU	V		
Adequate housing provided			V
Sufficient water provided for drinking/washing/bath			V
No noisy work is conducted in the nights	V		
Local people informed of noisy work		V	
No blasting activity conducted	V		
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- Near Satisfactory

Report No.9

1.0	port No.5				
PROJECT NAME: Rajasthan Secondary Towns Development Sector Project	CONTRACT NUMBER: RSTDIP/LXG/01				
Sub-project Name – Laxmangarh Water Supply Works					
DATE: 27.07.2021	SECTOR: Water Supp	ly			
LOCATION (Name of Sites Visited): Bad Ke Balaji Head Works, Laxmangarh	Contractor: L&T				
WEATHER: Clear & Sunny	Project Activity Stage)-			
PROJECT ACTIVITY: Inventorization of AC Pipes	Environment Professio	oy- D nal, CN		haveer	Saini,
Monitoring Items	Compliance				
Compliance marked as Yes/No/Not ap Implemented(PI)	oplicable(NA)/Partially	YES	NO	NA	PI
EHS supervisor appointed by contractor and av	vailable on site	~			
Construction site management plan (spo equipment etc.,) prepared	ils, safety, schedule,	~			
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					V
leaving the site	critoles eleaned prior to				
No chance finds encountered during excavation	n	~			
Work is planned in consultation with traffic police	ce				~
Work is not being conducted during heavy traff	ic	~			
Work at a stretch is completed within a day (exbackfilling)	ccavation, pipe laying &				~
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			V		<u> </u>
No public/unauthorized entry observed in work site		V	•		
Children safety measures (barricades, security) in place at works ir		-	/		
residential areas Prior public information provided about the	e work, schedule and	✓			
disturbances Caution/warning hoard provided on site					V
Caution/warning board provided on site				l	•

Guards with red flag provided during work at busy roads		<i>\</i>	
Workers using appropriate PPE (boots, gloves, helmets, ear muffs			<u> </u>
etc)			
Workers conducting or near heavy noise work is provided with ear		V	
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	V		
Drinking water provided at the site	V		
Deep excavation is conducted with land slip/protection measures			V
First aid facilities are available onsite and workers informed	V		
Drinking water provided at the site	V		
Toilet facility provided at the site	V		
Separate toilet facility is provided for women workers		V	
Workers camps are maintained cleanly	~		
Adequate toilet & bath facilities provided		V	
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	V		
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- Inventorization of AC Pipes were carried out with proper Personal Protectice equipments.

Overall performance of contractor- Satisfactory

Report No.10

1.00	01110:10				
PROJECT NAME: Rajasthan Secondary Towns Development Sector Project	CONTRACT NUMBER	: RSTI	DIP/SRI	D/01	
Sub-project Name –Sardarshahar Water	r				
Supply and Sewerage Works					
DATE: 29.07.2021	SECTOR: Water Supp	ly and	Sewera	ge	
LOCATION (Name of Sites Visited): PHED		,		J	
Executive Engineer Project Office on Hanumangarh Road, Sardarshahar					
WEATHER: Sunny and Clear	Project Activity Stage)-			
PROJECT ACTIVITY: Inventorization of AC Pipes	Site visit done k Environment Professio	-		haveer	Saini,
Monitoring Items	Compliance	1101, 011			
Compliance marked as Yes/No/Not ap		YES	NO	NA	PI
Implemented(PI)	, p				
EHS supervisor appointed by contractor and av	/ailable on site	V			
Construction site management plan (spoi	ils, safety, schedule,	~			
equipment etc.,) prepared Traffic management plan prepared				~	
Dust is under control		V		_	
Excavated soil properly placed within minimum	snace				
Construction area is confined; no traffic/pedesti	1	V			
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	n	~			
Work is planned in consultation with traffic police	1			~	
Work is not being conducted during heavy traffi				~	
Work at a stretch is completed within a day (ex				~	
backfilling)					
Pipe trenches are not kept open unduly				~	
Road is not completely closed; work is condu	icted 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				V	
Wooden planks/metal sheets provided across trench for pedestrian				V	
No public/unauthorized entry observed in work site		V			
Children safety measures (barricades, security) in place at works in residential areas		~			
Prior public information provided about the disturbances	work, schedule and	~			
Caution/warning board provided on site		~			
Caution/warming 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				V
Deep excavation is conducted with land slip/protection measures	V			
First aid facilities are available on site and workers informed	/			
Drinking water provided at the site	V			
Deep excavation is conducted with land slip/protection measures				
First aid facilities are available onsite and workers informed	V			
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				V
Adequate toilet & bath facilities provided				~
Contractor employed local workers as far as possible				~
Workers camp set up with the permission of PIU	V			
Adequate housing provided	V			
Sufficient water provided for drinking/washing/bath	V			
No noisy work is conducted in the nights	/			
Local people informed of noisy work	V			
No blasting activity conducted	/			
Pneumatic drills or other equipment creating vibration is not used near old/risky buildings	~			

Summary of safeguard compliance of contractor-- Inventorization of AC Pipes were carried out with proper Personal Protectice equipments.

Overall performance of contractor- Satisfactory

Report No.11

			/	- 10 1	
PROJECT NAME: Rajasthan Secondary	CONTRACT NUMBER	R: RSTL	JIP/PR	1/01	
Towns Development Sector Project					
Cub project Name Drotongerh Courses					
Sub-project Name – Pratapgarh Sewerage Works					
DATE: 13.08.2021	SECTOR: Sewerage				
LOCATION (Name of Sites Visited): 200	Contractor: M/s. Khila	ari Infra	etructi	uro Dvt	l td
mm DWC sewage pipe laying and	Contractor, w/s. Killie	ai i iiiii c	asti ucti	ui e F Vi	. Ltu.
manhole work at Bahubali Colony and					
250 mm HDPE Trenchless sewage pipe					
laying at Neemach Road, Pratapgarh					
WEATHER: Sunny and Clear	Project Activity Stage) -			
•					
PROJECT ACTIVITY: Sewage pipe laying	Site visit done l	by- D	r. Ma	haveer	Saini,
and manhole work	Environment Profession	nal, CN	/ISC-II		
Monitoring Items	Compliance				-
	oplicable(NA)/Partially	YES	NO	NA	PI
Implemented(PI)					
EHS supervisor appointed by contractor and a		/			
Construction site management plan (spo	ils, safety, schedule,	~			
equipment etc.,) prepared					
Traffic management plan prepared		/			
Dust is under control		/			
Excavated soil properly placed within minimum	ı space	~			
Construction area is confined; no traffic/pedestrian entry observed					V
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 ve	ehicles cleaned prior to	~			
leaving the site					
No chance finds encountered during excavation	n	~			
Work is planned in consultation with traffic poli-	ce				/
Work is not being conducted during heavy traff	ic				V
Work at a stretch is completed within a day (ex	cavation, pipe laying &				V
backfilling)					
Pipe trenches are not kept open unduly					/
Road is not completely closed; work is conducted on edge; at least					V
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, securit	ty) in place at works in	~			
residential areas					
Prior public information provided about the	e work, schedule and	/			

disturbances			
Caution/warning board provided on site	V		
Guards with red flag provided during work at busy roads			V
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			V
Deep excavation is conducted with land slip/protection measures	V		
First aid facilities are available on site and workers informed	~		
Drinking water provided at the site	V		
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	V		
Separate toilet facility is provided for women workers	V		
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	V		

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

Overall performance of contractor- Satisfactory

APPENDIX-5: COMPLIANCES OF ENVIRONMENTAL SELECTION CRITERIA

APPENDIX-5: COMPLIANCES OF ENVIRONMENTAL SELECTION CRITERIA				
Components	Criteria	Design Considerations	Compliance Status	
-		(if criterion is not met)		
All subproject	ts			
	Subproject will avoid potentially significant adverse impacts that are diverse, irreversible or unprecedented (ADB SPS Category A for environment).		Complied- All projects are under category B as per ADB SPS, no significant impact is envisaged from any sub project	
	Comply with all requirements of ADB SPS 2009 and follow procedures set in this EARF.		Complied- EARF and ADB SPS is being complied in all sub projects	
	Comply with relevant national, and local laws, rules and regulations regarding EIA, environmental protection, pollution prevention (water, air, noise, solid waste, etc.), wildlife protection, core labor standards, physical cultural resources, health and safety, and other laws in specific sectors as indicated below		Complied- Compliance of all relevant national and state laws, rules and regulations are being done in all sub projects	
	Reflect inputs from public consultations	Refer to ADB SPS requirements on meaningful consultations 16	Complied- Consultations are being done in all stages of project	
Location	Avoid involuntary resettlement by prioritizing rehabilitation over new construction using vacant government land where possible, and taking all possible measures in design and selection of site or alignment to avoid resettlement impacts	If cannot be avoided, prepare Resettlement Plan.	Complied- Only temporary impacts on livelihood is anticipated in sub projects for which Resettlement Plan is prepared	
	Avoid or minimize the cutting of trees	If tree is to be cut, consider plantations in the ration of at least 1:3	Being Complied-Tree cutting permission is being taken, where tree cutting is required, compensatory plantations will be done in the ratio of at least 1:3	
Biodiversity	Avoid locating subprojects in critical habitats, such as, but not limited to, wildlife/bird sanctuaries, national parks, tiger reserves, elephant reserves, conservation reserves or core zone of biosphere reserves. Appendix 1 provides preliminary	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.	Complied- There are no ecological sensitive areas within the areas of project impact	

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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"

	analysis using the International Biodiversity Assessment Tool (IBAT) key biodiversity areas, protected areas, IUCN red list species and likelihood of critical habitats per town.	Appendix 2 provides a Biodiversity Assessment Report prepared for a sample subproject (Abu Road water and sewerage subproject).	
	Should not directly affect environmentally protected areas, core zones of biosphere reserves and highly valued habitat		
	If work is proposed with the aim of improving the conservation or management of designated subproject sites (e.g. improved drainage), this must only be undertaken: (i) after a comprehensive study and development of management plans and criteria; and (ii) with the direct involvement and approval of national and local bodies responsible for the subproject site.		Not applicable
Physical Cultural Resources	Should not result in the destruction/damage of or encroachment onto physical cultural resources (PCR) ¹⁷ such as archaeological monuments; heritage sites and movable or immovable objects, sites, structures, group of structures, and natural features and landscapes that have archaeological, paleontological, 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 18 per ADB SPS	For non-compliances identified in the environmental audit, provide corrective action for each area of concern including cost and schedule to be included in the subproject EMP.	Complied- Environmental audit of existing facilities has been done, where rehabilitation or upgradations works are proposed
Associated Facilities 19	Analyze environmental impacts and risks to be included in the IEE		Complied- environmental

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." ADB SPS Appendix 4 para 12 on Existing Facilities

			impact assessment of associated facilities done
Asbestos- containing materials (ACM) including, but not limited to, pipes, roofing, ceilings, insulation materials, excess pipes stored in PHED campuses, walls, etc.	Avoid handling or removing any ACM. Ensure asbestos concrete (AC) pipes facilities containing asbestos will not be disturbed and left in-situ. Appendix 4 provides asbestos management plan. RUDSICO shall include AMP in all contracts.	If ACM is suspected, asbestos verification by Asbestos Management Expert is required. Prepare site-specific asbestos management plan (AMP) prepared. Appendix 4 provides a sample AMP prepared for a sample subproject (Sardarshahar water and sewerage subproject).	Being Complied-AC pipes are not being used in the project and ACM management plan is being prepared in all sub projects where there is possibilities of encounter with ACM
wans, etc.	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
W-4 Q	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	acquisition will be done for pipe laying works
Water Supply	I IANG	Matanagana	Committee 1 C
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

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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"

			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 reduce the effects of noise, dust and the visual appearance of the site.		Complied- all new facilities are away from houses, shops or other premises as far as possible
	Locate WTP at sites where there is no risk of flooding or other hazards that might impair functioning of the WTP or present a risk of damage to the WTP or the surrounding area		Complied- WTP sites are not having hazards of flooding
Design	Ensure that the water supply system improvements are combined with improvements in sewerage to deal with the increased discharge of domestic wastewater.		Complied- water supply and sewerage system are synchronized
Sewage System Location	Previous projects considered 500m as	In case of non-availability	Complied- STPs are
	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).	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 —	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

	As far as possible Sewage Pumping	consult local community, inform about the need, process adopted to select sites, its suitability, and measures adopted for odor prevention and control In case of non-availability	Complied- SPS and
	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. Locate STP at sites where there is no	of suitable sites due to land and technical design constraints in already developed areas, where 50 m buffer is not available, following procedures shall be adopted and documented in order to finalize sites for implementation of project: (i) conduct alternate site analysis, justify the selected site; (ii) develop odor mitigation measures to prevent and control odor/air emissions — design measures, and operational practices that are feasible and practical in local conditions and include in IEE; (iii) develop layout plan with maximum buffer to nearby houses; (iv) provide a peripheral green buffer (at least three rows of trees within the pumping station compound); and (v) public information — consult local community, inform about the need, process adopted to select sites, its suitability, and measures adopted for odor prevention and control	well wells are designed at least 50 mts away from habitations and sensitive receptors
	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	Reuse of treated effluent and sludge for beneficial uses will be encouraged in	Will be Complied- Reuse of treated effluent from STP in

	users (e.g. a waterway that is used as a source of water for domestic or municipal supply)	the project. During final design options and method of reuse will be	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	developed and updated in IEE.	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
	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	required for pipe laying in any sub project

APPENDIX-6: PHOTOGRAPHS AND ATTENDANCE SHEETS OF SAGEGUARD ORIENTATIONS AND TRAININGS

(During April to September 2021)

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



Safeguard Orientation at Laxmanagarh Dated 27.07.2021



Safeguard Orientation at Fatehpur Dated 28.07.2021



Safeguard Orientation at Pratapgarh Dated 13.08.2021



Safeguard Orientation at Pratapgarh Dated 13.08.2021



Safeguard Orientation at Didwana (for Didwana and Ladnu towns) Dated 14.09.2021



Safeguard Orientation at Kuchaman Dated 15.09.2021

Attendance sheet of Safeguard Orientation/Training at Banswara Dated 01.07.2021

	ne of Project: Rajasthan Secon Sewerage Subpro ation/Training Topic: Contrac	oject, District – Banswara	a, Rajasthan		Supply and
	RUIDP Office, Banswara			Date and Time: 01/07/	2021 12:00 p
S.No	Participant	Department/Agency	Designation	Mobile Number/Mail ID	Signature
1	Ashok Janja	RUIDA	XEN	9602135607	81
2	Mobil San	CMSC-TI	Support English	7024412929	man at
3	Hayank Prajapat	CMSC- II	Sup. Euge.	8385090373	Mayor
4	Kenul savel	BIPL SCHP	pop.	9,317 8844/	ILD SUNG
5	mond staked than	BIPL-SC- HP	Deputy march	9001011999	- Ok
6					
7					
8					
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Attendance sheet of Safeguard Orientation/Training at Laxmanagarh Dated 27.07.2021

	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							
	tone-18.			d Time: 27.07.20	El. 4:50 P			
5.No	Participant	Department/Agency	Designation	Mobile Number/Mail ID	Signature			
1	Kartikeya Singu	LAT	Supportidiser	9695101933	Point			
2	Vishal Gorai	LAT	Eng. Mechacal	100145720	Final .			
3	Samesn	W	Merkhan		-			
4								
5								
6								
7					1			
8								
2			-					

Attendance sheet of Safeguard Orientation/Training at Fatehpur Dated 28.07.2021

Project	Name: - Rajasthan Sec Subproject in		is development so wn, Sikar District,		werage
	25, 07, 2021 . Proposed STP SI	te-on No	nzi Bazi Reac		Time 4:50 (
Sr. No.	Name of Participant	Dept.	Designation	Signature	Phone Number
1.	Good Parkbor	Wroker	Helper	diaci	626360421
2.	Harishaukar	f.t	6.	57	7 060 20 805
3.	Jourgua	- 47	-19	0/20011	8130148220
4.	Argand	1,	1,	3/6/2	740965723
5.	Bari-Qal.	26.	16	100	*
6.	Bind. Pal	-0	14	154	+
7.	,				

Attendance sheet of Safeguard Orientation/Training at Banswara Dated 13.08.2021

_	Atten	dance Sheet	for Safety Train	ning/Orientation	
Name o	of Work:-"Construction of Sowi House Sower Connections along	trage system inclu- with all allied Wro	4	rk, Sewage Treatment Plant, vices of the entire system (o	Sewage Pumping Station r 10 years at Pratapgarh
Pro	oject Name: Rajasthan Urban In	frastructure Devel	opment Project Phase	edV Sources Mahamat Ta S	and the second
-	12/00/200		li Colony	Time: 1/1/CD	
Sr.No.	Name of Participant	Dept.	Designation	-	
	oraller in a ma		-	Signature Op 1 € 1	Phone Number
2	Prabnu Khadaij	0	0	59mm	H
3	Jeevatram	13	No.	जा न र राम	-
4	Gruddupierna	\mathcal{H}	q	नीडर	9685 22718
0.1	Ram Lat Meera	1)	l V	DIAMETE	932968108

Attendance sheet of Safeguard Orientation/Training at Didwana and Ladnu Dated 14.09.2021

Town:				
Date:	" severage "	roject, Didw	ang and M	akkon
Subjec	14.09.2021			
Judje	- Emmouned	ial Safegna	ld Orient	ation
S.No.	Name	Designation	Mobile and email	Signature
1			The state of the s	
	Rakesh Mudgal	S.E	9414456296	Cabach
2	Gustej Singh	FE, Maksom	9828529028	Br
3	Avun C.D	Accounts	959729364	3 Anus
4	ARUN KANOJIYA	Acm	9893409451	Bo
5	S.K.SIMGH	PM L8T	3412739733	- 2
6	Joetencha Kumer	J. 5. RUDP	946130776)	Comou
7	Sadday Nirwan	SUPPON- From ONS	7727894555	20
8	Sweig Kuman Smight	CM Didwan	8936943655 Swight e Litect Com	701
9	mil Barcherl		8696945316	1
10	Robin Maprani	CHSO	9895978165	- 20
11			9412739717	as
12	Vardan Sirasda		941008377	got
13		CSMC-01	The state of the s	114
14	Rangis In	IK (4)	9312360919	saus-
15				

Safeguard Orientation/Training at Ladnu Dated14.09.2021

Town	: Ladny	ATTENDENCE SHEET		
	t: Sewcraye P	reject , Lads	ny	
Date:		101	m > d 1;	
5.0.5/6	t: Envisonmenta	Sefeguard	mentation	The
S.No.	Name	Designation	Mobile and email	Signature
1	Rakesh Mudgal	38	9414456296	Ede
2	ASHOK CHURDIA	EE	9414745263	- San
3	Titendra	J.Eh.	9783433002	def
4	VIJAY PAL	ACM	9799363291	you
5	SHER MOHAMMED	Support Engineer	8094736147	ery
6	S.K.SINGH	PM (LAT)	9412739783	2
7	ARUN KAN ESWARAN KP			2
8		CM (LGT)	7849918596	ASST.
9	Jeerun Jevuay PK	EHSO	9446224558	Lun
	TRAMBOBY	Aceds & Admi-	98494919910	200
10	Avis Bachel	onlac	8696941316	1
11	Vardan Stira ten			Che
12				111
13	Rangist The	IR-LST	9717-960 919	Agus
14				
15				
3	Dr.			
Signa	ature of PMCBC		Signature o	f PIU

Town:				
Projec	t: Sewesay	Project 4	worker supply	- Kuel
Date:	15.09.2021	0	3.0200	,
Subjec	t: Envisonmen	to Safegn	and or wile	Mins
S.No.	Name	Designation	Mobile and email	Signatu
	ANURAG	PEANNOUR (1	(81) 7990659827	Am
2	AVIJIT DHARA	Execution (1	7890891553	ALL
3	Mrityunjay Sng	G SOT (L	AT) 869694544	3 50
4	Sayam Anjum	Execution (1	19) 9554170T86	Spe
5	ATUL STHAH	11 4	87 6306520635	A.
6	Ankit Shazma	Support Engi CMSC- RUI	meer 9660904080	Anv
7	5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			
8	R-C. Paniasahy	CW (187)	0483168555	, 00
	m.c. Grup L	GX. En RUI	DP 759792102	0 1
9		70 0.440		2,02
10	Swoder Goodar	Support Engl	Wer goyznoou	1
11				Day
12	Mehd Rashid		100 9936526885	0
13	Hoyal Pathor	SOT CLST		Hay
14	Roshan kanwas			1
15	Indrojit Adlika			
	THOIST HOME	(Supervis-	(3) 8.3 10 01.93 5	-4
	\$0.7			
Signa	ture of PMCBC		Signature	OT PIU

Town:	Kuchaman .	2 Sewerage	Pay" 1.1	
Date: Subject	the Water Supply 15/9/2021 the WS/WW	0	7	
S.No.	/	Designation	Mobile and email	Signature
16	Vandan Sirvastan	0 1 1111	7981939383	Cle
17	kishan Sinsh	801 (181)	820922 3680	Binst
18	Sunil leymor	Sunagor (LIT)	2953217789	212-
49	Shahnoraz Hosan	PM (127)	7837002054 SHZ@LN78((-(0)	n ehrh
20	P. Ashola	QL (LGF)	15 10 010017	184
21			959366/196 com) 1
7	V. Suguney Anuray Bagherun	FAA (LST)	9119104580	Anu
8	murray 13 mora	Safrey	2112121300	Jan
9				-
10				
11				
12				
13				
14				
15				_
	X Sand			
Signa	ature of PMCBC		Signature o	of PIU

APPENDIX 7: PHOTOS OF EHS ACTIVITIES BY DIFFERENT CONTRACTORS DURING **REPORTING PERIOD**

(April to September 2021)



Sardarshahar Town

SST-confined Space Safety

First AID Training





Scaffolding Safety



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

Work at Height Training

Material Handling Training, Excavation Safety, COVID-19 precautions



Laxmangarh Town



Kuchaman Town



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

Mandawa Town



Electrical Safety Training



Manual material handling Training

Khetri Town



Training on House keeping



Training on Road safety

Appendix 8: SAFEGUARD TRAININGS CONDUCTED BY CONTRACTORS
(April to September 2021)

(April to September 2021)										
S. No.	Activities done	Date	Location	Trainer	No. of participants					
		Abu Ro	ad Town							
1	Electrical safety	09.04.2021	Talehti	Srilekha	07					
2	Material handling safety	10.04.2021	Manpur store	Srilekha	10					
3	House keeping	10.04.2021	Manpur HB	Srilekha	06					
4	Electrical safety	14.04.2021	Manpur	Srilekha	07					
5	Road safety	14.04.2021	Jaat Samaj	Srilekha	07					
6	House keeping	26.04.2021	Manpur	Srilekha	04					
7	Electrical safety	26.04.2021	Manpur	Srilekha	04					
8	Excavation Safety	27.04.2021	Manpur	Srilekha	05					
9	Loading unloading safety	28.04.2021		Srilekha	06					
10		05.05.2021	Manpur	Srilekha						
11	Electrical safety		Housing Board	Srilekha	05					
12.	House keeping	07.05.2021	Manpur HB	Srilekha	10					
	Excavation Safety	07.05.2021	Akrabatta		06					
13	Loading unloading safety	12.05.2021	Manpur HB	Srilekha	05					
14	Road safety	12.05.2021	Tahleti	Srilekha	07					
15.	Material handling	13.05.2021	Manpur HB	Srilekha	06					
16	House keeping	13.05.2021	Manpur	Srilekha	07					
17	Road safety	18.05.2021	manpur	Srilekha	05					
18	Loading unloading safety	19.05.2021	Manpur store	Srilekha	08					
19	Electrical safety	21.05.2021	New Manpur	Srilekha	11					
20	Material handling	22.05.2021	Manpur	Srilekha	10					
21	Electrical safety	24.05.2021	Manpur HB	Srilekha	08					
22	Excavation Safety	01.06.2021	New Manpur	Srilekha	06					
23	House keeping	09.06.2021	Manpur	Srilekha	06					
24	Loading unloading safety	09.06.2021	Manpur HB	Srilekha	07					
25	Material handling safety	09.06.2021	Tartoli	Srilekha	06					
26	Electrical safety	14.06.2021	Akrabatta	Srilekha	09					
27	Excavation Safety	24.06.2021	Santpur	Srilekha	06					
28	House keeping	25.06.2021	Manpur HB	Srilekha	11					
29	Soil Collapse	25.06.2021	Santpur	Srilekha	06					
30	Electrical safety EHS Alert	26.06.2021 29.06.2021	Gandhinagar Santpur	Srilekha Srilekha	07 18					
32	CWT	July'21	Santpur	Mr. Sachin	31					
0_		04.72.	Campai	Sharma						
33	Road safety and Excavation	July'21	Maanpur	Mr. Sachin	6					
24	safety Excavation safety and	luk/24	Tortoli	Sharma Mr. Sashin	7					
34	Housekeeping	July'21	Tartoli	Mr. Sachin Sharma	/					
35	Excavation safety	July'21	Santpur STP	Mr. Sachin	14					
	•		·	Sharma	_					
36	Manual material handling	July'21	New Maanpur	Mr. Sachin	6					
37	Manual material handling safety	July'21	Tartoli	Sharma Mr. Sachin	7					
	and hot work safety	34., 21		Sharma						
38	Importance of PPE and fire	July'21	Santpur STP	Mr. Sachin	14					

	safety			Sharma	
39	Housekeeping and Electrical safety	July'21	Santpur STP	Mr. Sachin Sharma	14
40	EHS	Aug 21	Office	Mr. Sachin Sharma	26
41	EHS	Aug 21	Office	Mr. Sachin Sharma	13
42	Road safety and Excavation safety	Aug 21	Maanpur HB	Mr. Sachin Sharma	8
43	Material handling safety	Aug 21	Maanpur	Mr. Sachin Sharma	9
44	CWT	Aug 21	Workmen Camp	Mr. Sachin Sharma	12
45	Importance of PPE	Aug 21	Maanpur HB	Mr. Sachin Sharma	9
46	Electrical safety	Aug 21	Maanpur HB	Mr. Sachin Sharma	9
47	Housekeeping and Electrical safety	Aug 21	Ambika colony	Mr. Sachin Sharma	8
48	Material handling safety	Aug 21	Maanpur	Mr. Sachin Sharma	6
49	EHS	Aug'21	Workmen Camp	Mr. Sachin Sharma	13
50	CWT	Aug'21	Workmen Camp	Mr. Sachin Sharma	12
51	EHS	Aug'21	New Maanpur	Mr. Sachin Sharma	4
52	EHS	Aug'21	STP Santpur	Mr. Sachin Sharma	8
53	EHS	Aug'21	Gandhinagar	Mr. Sachin Sharma	7
54	EHS	Aug'21	STP Santpur	Mr. Sachin Sharma	13
55	EHS Alert #14	Sep'21	Maanpur	Mr. Sachin Sharma	6
56	Electrical safety and road safety	Sep'21	Workmen Camp	Mr. Sachin Sharma	8
57	EHS Alert #13	Sep'21	Workmen Camp	Mr. Sachin Sharma	9
58	Material handling safety	Sep'21	Office	Mr. Sachin Sharma	18
59	EHS Alert #14	Sep'21	Workmen Camp	Mr. Sachin Sharma	6
60	Excavation safety and Housekeeping	Sep'21	Maanpur	Mr. Sachin Sharma	8
61	Electrical safety and Excavation safety	Sep'21	Maanpur	Mr. Sachin Sharma	10
62	EHS Alert #13	Sep'21	Maanpur	Mr. Sachin Sharma	6
63	EHS Alert #15	Sep'21	Office	Mr. Sachin Sharma	17
64	EHS Alert #16	Sep'21	Office	Mr. Sachin Sharma	17
65	loading and unloading safety	Sep'21	Workmen Camp	Mr. Sachin Sharma	7
66	Material Handling	Sep'21	Santpur STP	Mr. Sachin Sharma	32
67	EHS Alert#16	Sep'21	Maanpur	Mr. Sachin	5

				Sharma	
68	CWT	Sep'21	Workmen Camp	Mr. Sachin	15
00		00021	Trontinon oump	Sharma	
69	CWT	Sep'21	Workmen Camp	Mr. Sachin	15
		'		Sharma	-
70	Fire-fighting training	Sep'21	Office	Mr. Sachin	26
		'		Sharma	
71	Confined Space-Gas Testing	Sep'21	Office	Mr. Sachin	12
		-		Sharma	
			ni Town		
1	EHS Alert #14	Sep'21	Maanpur	Mr. Sachin	6
				Sharma	
2	Electrical safety and road safety	Sep'21	Workmen Camp	Mr. Sachin	8
				Sharma	
3	EHS Alert #13	Sep'21	Workmen Camp	Mr. Sachin	9
				Sharma	
4	Material handling safety	Sep'21	Office	Mr. Sachin	18
		0 104	<u> </u>	Sharma	
5	EHS Alert #14	Sep'21	Workmen Camp	Mr. Sachin	6
2	Everyation - state and	Com/04	Magazzzz	Sharma Mr. Sashin	0
3	Excavation safety and	Sep'21	Maanpur	Mr. Sachin	8
7	Housekeeping	Sep'21	Maanner	Sharma Mr. Sachin	10
7	Electrical safety and Excavation	Sep 21	Maanpur		10
<u> </u>	safety EHS Alert #13	Con'01	Maannur	Sharma Mr. Sachin	6
3	Ens Alert #13	Sep'21	Maanpur		6
9	EHS Alert #15	Sep'21	Office	Sharma Mr. Sachin	17
9	Ens Aleit #15	Sep 21	Office	Sharma	17
10	CWT Training	10.07.21	Sirohi	Satish	15
11	Material Handling	16.07.21	Sirohi	Satish	12
12	Excavation Safety	23.07.21	Sirohi	Satish	07
13	Excavation Safety	25.07.21	Sirohi	Satish	10
14	CWT Training	27.07.21	Sirohi	Satish	09
15	Manual Material Handling	17.08.21	Sirohi	Satish	7
16	CWT Training	25.08.21	Sirohi	Satish	5
17	CWT Training	28.08.21	Sirohi	Satish	5
18	EHS Alert Training	28.08.21	Sirohi	Satish	23
19	Electrical Safety	20.09.21	Sirohi	Satish	09
20	Traffic managements	22.09.21	Sirohi	Satish	11
<u></u> 21	Health and hygiene Safety	24.09.21	Sirohi	Satish	08
22	EHS Alert	25.09.21	Sirohi	Satish	12
			nahar Town	0.0.0	
1	loading and unloading safety	Sep'21	Workmen Camp	Mr. Sachin	7
	Material Hamilton	0.00104	0	Sharma	00
2	Material Handling	Sep'21	Santpur STP	Mr. Sachin	32
	FLIQ ALt//40	0 104	N4	Sharma	_
3	EHS Alert#16	Sep'21	Maanpur	Mr. Sachin	5
1	CWT	Con'04	Marken an Orien	Sharma Mr. Sashin	45
4	CWT	Sep'21	Workmen Camp	Mr. Sachin	15
=	CWT	Con'04	Markman Cana	Sharma Mr. Sashin	4.5
5	CWT	Sep'21	Workmen Camp	Mr. Sachin	15
2	Fire fighting training	Son'21	Office	Sharma Mr. Sashin	26
6	Fire-fighting training	Sep'21	Office	Mr. Sachin	26
		Sep'21	Office	Sharma Mr. Sachin	12
7	Confined Space-Gas Testing	Con'''1			

		1	T =		
8	EHS Alert #01	14.04.2021, 15.04.2021, 29.04.2021	Sardarshahar	Rakesh kumar Sahu	15
9	EHS Alert # 01,03 & 04	12.05.2021	Sardarshahar	Rakesh kumar Sahu	10
10	EHS Alert # 01 & 02	17.05.2021	Sardarshahar	Rakesh kumar Sahu	14
11	Mock Drill On Heat Stroke	29.04.2021	Sardarshahar	Rakesh kumar Sahu	15
12	Site Specific Training-COVID safety precaution	26.05.2021	Sardarshahar	Rakesh kumar Sahu	17
13	Mock Drill on COVID suspected case	28.05.2021	Sardarshahar	Rakesh kumar Sahu	20
14	Vaccination Awareness	28.05.2021	Sardarshahar	Rakesh kumar Sahu	35
15	Electrical Safety-Staffs	14.06.2021	Sardarshahar	Rakesh kumar Sahu	20
16	Electrical Safety-Workmen	17.06.2021	Sardarshahar	Rakesh kumar Sahu	45
17	Mock Drill on Electrocution	29.06.2021, 30.06.2021	Sardarshahar	Rakesh kumar Sahu	23
18	EHS Induction & COVID Precaution	July, 2021	Sardarshahar	Rakesh Kumar Sahu	119
19	EHS Induction & COVID Precaution	August 2021	Sardarshahar	Rakesh Kumar Sahu	126
20	EHS Induction & COVID Precaution	September 2021	Sardarshahar	Rakesh Kumar Sahu	131
21	Contractor Workmen Training	July 2021	Sardarshahar	Rakesh Kumar Sahu	9
22	Contractor Workmen Training	August 2021	Sardarshahar	Rakesh Kumar Sahu	14
23	Contractor Workmen Training	September, 2021	Sardarshahar	Rakesh Kumar Sahu	22
24	Site Specific Training-Electrical Safety	July 2021	Sardarshahar	Rakesh Kumar Sahu	71 (39 WORKMEN 32 STAFFS)
25	Site Specific Training-Work at height	August 2021	Sardarshahar	Rakesh Kumar Sahu	64 (38 WORKMEN 26 STAFFS
26	Site Specific Training-Security	August 2021	Sardarshahar	Rakesh Kumar Sahu	06
27	Site Specific Training-Gas Testing in Confined Space	September 2021	Sardarshahar	Rakesh Kumar Sahu	73 (56 WORKMEN 17 STAFFS)
28	Site Specific Training-Monsoon Preparedness Plan	September 2021	Sardarshahar	Rakesh Kumar Sahu	17
29	Other trainings	July 2021	Sardarshahar	Rakesh Kumar Sahu	95
30	Other trainings	August 2021	Sardarshahar	Rakesh Kumar Sahu	44
31	Other trainings	September 2021	Sardarshahar	Rakesh Kumar Sahu	232 (198 WORKMEN 34 STAFFS
		Fatehpu	ır Town		
1	CWT Training	04.06.2021	Fatehpur	Mr. Vyankatesh	11
2	Mock Drill	07.06.2021	Fatehpur	Mr. Vyankatesh	11
3	Excavation Work Safety	08.06.2021	Fatehpur	Mr. Vyankatesh	7
<u> </u>		10.00.2021	. atompai	v jarmatoon	•

1	Traffic Management	10.06.2021	Fatehpur	Mr Wyonkotoch	14
<u>4</u> 5	CWT Training	14.06.2021	Fatehpur	Mr. Vyankatesh Mr. Vyankatesh	15
6	Excavation Work Safety	15.06.2021	Fatehpur	Mr. Vyankatesh	9
7	Electrical Work Safety	18.06.2021	Fatehpur	Mr. Vyankatesh	14
8	Mock Drill		· · · · · · · · · · · · · · · · · · ·	Mr. Vyankatesh	17
9	EHS Alert no 02 , 03	19.06.2021	Fatehpur Fatehpur		14
	· · · · · · · · · · · · · · · · · · ·	23.06.2021		Mr. Vyankatesh	
10	EHS Alert no 05	23.06.2021	Fatehpur	Mr. Vyankatesh	19
11	Confined Space Work Safety	26.06.2021	Fatehpur	Mr. Vyankatesh	10
12	Traffic Management	30.06.2021	Fatehpur	Mr. Vyankatesh	09
13	Fire Drill - SST 1	01.07.2021	Fatehpur	Mandeep Walia	05
14	EHS Alert No- 06,08,11,	07.07.2021,	Fatehpur	Mandeep Walia	158
	01,07,08, 09, 10,	14.07.2021,			
	10,12,13,14,15,16,17	19.07.2021,			
		24.07.2021,			
		31.07.2021			
		02.08.2021,			
		11.08.2021,			
		13.08.2021,			
		20.08.2021,			
		20.08.2021,			
		27.08.2021,			
		06.09.2021,			
		10.09.2021,			
		30.09.2021			
15	Traffic Management	10.07.2021	Fatehpur	Mandeep Walia	6
16	CWT Training	11.07.2021,	Fatehpur	Mandeep Walia	148
		14.07.2021,			
		19.07.2021,			
		22.07.2021,			
		23.07.2021,			
		06.08.2021,			
		09.08.2021,			
		24.08.2021,			
		25.08.2021,			
		06.09.2021,			
		22.09.2021			
17	Excavation Work Safety	12.07.2021	Fatehpur	Mandeep Walia	06
18	Confined Space work safety	15.07.2021,	Fatehpur	Mandeep Walia	13
		07.08.2021,			
		12.08.2021			
19	Mock Drill	15.07.2021,	Fatehpur	Mandeep Walia	61
		31.07.2021,			
		05.08.2021,			
		13.08.2021,			
		26.08.2021,			
		29.09.2021			
20	Height Work Safety	16.07.2021,	Fatehpur	Mandeep Walia	21
		08.09.2021,			
		20.09.2021			
21	Material Handling	20.07.2021,	Fatehpur	Mandeep Walia	29
		27.08.2021,			
		15.09.2021			
			Fatehpur	Mandeep Walia	13
22	P&M Work Safety	10.08.2021.	I atoripui		
22	P&M Work Safety	10.08.2021, 09.09.2021	rateripai		
	·	09.09.2021	·		06
23	Electrical Work Safety	09.09.2021 23.08.2021	Fatehpur	Mandeep Walia	06
	·	09.09.2021	·		

	Training				
26	Traffic Management	06.09.2021, 21.09.2021	Fatehpur	Mandeep Walia	13
		Ratanga	rh Town		
1	Excavation safety training	16.01.2021	L&T OFFICE	Musthafa	12
2	Site specific training	12.01.2021	L&T OFFICE	Musthafa	15
3	EHS alert training	30.01.2021	L&T OFFICE	Musthafa	12
4	Excavation safety training	20.01.2021	L&T OFFICE	Musthafa	16
5	Excavation training	22.02.2021	L&T OFFICE	Musthafa	14
6	Excavation safety training	20.02.2021	L&T OFFICE	Musthafa	08
7	Site specific training	24.03.2021	L&T OFFICE	Musthafa	16
8	EHS alert training	16.03.2021	L&T OFFICE	Musthafa	12
9	Site specific training	26.03.2021	L&T OFFICE	Musthafa	10
10	Site specific training	25.03.2021	L&T OFFICE	Musthafa	08
11	Excavation Safety Training	02.07.21,08. 07.21, 26.07.21,20. 08.21,	L&T OFFICE	Musthafa	38
12	Site Specific Training	04.07.21, 24.08.21,25. 09.21,26.09. 21	L&T OFFICE	Musthafa	49
13	EHS Alert Training	29.07.21, 16.09.21	L&T OFFICE	Musthafa	24
		Laxmang	arh Town		
1	Site Specific Training (SST)	03.04.2021	Site	Vinayak Dev	08
2	Contractors Work Training (CWT)	12.04.2021	WMC	Vinayak Dev	05
3	EHS Alert Training	16.04.2021	WMC	Vinayak Dev	05
4	Contractors Work Training (CWT)	19.04.2021	WMC	Vinayak Dev	08
5	Contractors Work Training (CWT)	20.04.2021	WMC	Vinayak Dev	10
6	Others Training (OT)	20.04.2021	WMC	Vinayak Dev	08
7	Site Specific Training (SST)	20.04.2021	WMC	Vinayak Dev	08
8	Site Specific Training (SST)	04.05.2021	Site	Vinayak Dev	07
9	Others Training (OT)	11.05.2021	EHS Alert Training	Vinayak Dev	11
10	Contractors Work Training (CWT)	04.06.2021	WMC	Vinayak Dev	07
11	Site Specific Training (SST)	04.06.2022	Site	Shahrukh Khan	04
12	Contractors Work Training (CWT)	05.06.2021	WMC	Shahrukh Khan	07
13	Contractors Work Training (CWT)	10.06.2021	WMC	Shahrukh Khan	08
14	Site Specific Training (SST)	11.06.2021	WMC	Shahrukh Khan	03
15	EHS Alert Training	11.06.2021	WMC	Shahrukh Khan	08
16	Contractors Work Training (CWT)	11.06.2023	WMC	Shahrukh Khan	08
17	Induction	12.06.2021	WMC	Shahrukh Khan	5
18	Contractors Work Training (CWT)	12.06.2021	WMC	Shahrukh Khan	5
19	Induction	14.06.2021	WMC	Shahrukh Khan	3
20	Contractors Work Training (CWT)	14.06.2022	WMC	Shahrukh Khan	3
21	Induction	15.06.2021	WMC	Shahrukh Khan	14

22	Contractors Mark Training	15.06.0004	\\\\\\C	Shahrukh Khan	4.4
22	Contractors Work Training (CWT)	15.06.2021	WMC		14
23	EHS Alert Training	15.06.2021	WMC	Shahrukh Khan	5
24	Induction	16.06.2021	WMC	Shahrukh Khan	1
25	EHS Alert Training	17.06.2021	WMC	Shahrukh Khan	19
26	Induction	18.06.2021	WMC	Shahrukh Khan	8
27	Contractors Work Training (CWT)	18.06.2022	WMC	Shahrukh Khan	8
28	Site Specific Training (SST)	18.06.2022	Site	Shahrukh Khan	7
29	EHS Alert Training	19.06.2021	WMC	Shahrukh Khan	8
30	Induction	21.06.2021	WMC	Shahrukh Khan	4
31	CWT	21.06.2022	WMC	Shahrukh Khan	4
32	Induction	22.06.2021	WMC	Shahrukh Khan	4
33	Contractors Work Training (CWT)	22.06.2022	WMC	Shahrukh Khan	4
34	Induction	23.06.2021	WMC	Shahrukh Khan	3
35	Induction	24.06.2021	WMC	Shahrukh Khan	3
36	Site Specific Training (SST)	25.06.2021	Site	Shahrukh Khan	6
37	Induction	26.06.2021	WMC	Shahrukh Khan	2
38	Induction	28.06.2021	WMC	Shahrukh Khan	1
39	Contractors Work Training (CWT)	28.06.2021	WMC	Shahrukh Khan	1
40	EHS Alert	01.07.2021, 02.07.2021, 08.07.2021, 12.07.2021, 15.07.2021, 22.07.2021, 27.07.2021, 13.08.2021, 14.08.2021, 16.08.2021, 11.09.2021, 14.09.2021, 22.09.2021	Site	Shahrukh Khan	84
41	Induction	06.07.2021, 08.07.2021, 09.07.2021, 10.07.2021, 12.07.2021, 16.07.2021, 20.07.2021, 23.07.2021, 02.08.2021, 13.08.2021, 13.08.2021, 25.08.2021, 26.08.2021, 27.08.2021, 28.08.2021, 29.08.2021, 21.08.2021, 21.08.2021, 22.08.2021, 23.07.2021, 24.08.2021, 25.08.2021, 27.08.2021, 28.08.2021, 29.08.2021, 29.08.2021, 31.08.2021, 11.09.2021, 14.09.2021,	WMC	Shahrukh Khan	126

		18.09.2021,			
		23.09.2021,			
		24.09.2021,			
		26.09.2021			
42	CWT	06.07.2021,	WMC	Shahrukh Khan	119
		08.07.2021,			
		09.07.2021,			
		12.07.2021,			
		23.07.2021,			
		02.08.2021,			
		03.08.2021,			
		10.08.2021,			
		13.08.2021,			
		25.08.2021,			
		26.08.2021,			
		27.08.2021,			
		28.08.2021,			
		29.08.2021,			
		31.08.2022,			
		02.09.2021,			
		06.09.2021,			
		11.09.2021,			
		11.09.2021,			
		14.09.2021,			
		18.09.2021,			
		23.09.2021,			
		24.09.2021,			
		26.09.2021			
43	SST	09.07.2021,	Site	Shahrukh Khan	41
		28.07.2021,			
		06.08.2021,			
		11.08.2021,			
		13.08.2021,			
		19.08.2021,			
		14.09.2021			
44	ОТ	19.07.2021,	WMC	Shahrukh Khan	71
	01	21.07.2021,	VVIVIO	Chamakirikilari	''
		10.08.2021,			
		20.08.2021,			
		21.08.2021,			
		:			
		27.08.2021,			
		06.09.2021, 23.09.2021			
4 E	Mook Drill		Cito	Chahruld I/hair	2
45	Mock Drill	27.08.2021	Site	Shahrukh Khan	3
46	Cook & helper training	03.09.2021	Site	Shahrukh Khan	2
L.	T = 2, 11 = 1 = 1 = 1		arh Town	1.2	
1	COVID-19 Training	01.07.2021	At the site	ASHUTOSH	10
2	COVID-19 Training	08.07.2021	At the site	ASHUTOSH	16
3	COVID-19 Training	15.07.2021	At the site	ASHUTOSH	14
4	COVID-19 Training	22.07.2021	At the site	ASHUTOSH	08
5	COVID-19 Training	29.07.2021	At the site	ASHUTOSH	12
6	COVID-19 Training	05.08.2021	At the site	ASHUTOSH	12
7	COVID-19 Training	12.08.2021	At the site	ASHUTOSH	15
8	Electrical Safety Training	19.08.2021	At the site	ASHUTOSH	16
9	Excavation Training	26.08.2021	At the site	ASHUTOSH	10
10	Ladder Training	02.09.2021	At the site	ASHUTOSH	08
11	PPE's Training	09.09.2021	At the site	ASHUTOSH	20
12	Material Lifting Training				10
12	iviateriai Liiting Training	14.09.2021	At the site	ASHUTOSH	ΙU

13	HIV/AIDS Awareness Training	18.09.2021	At the site	Dr. Sandeep /Ashutosh	50
				(Safety)	
14	Road Safety Training	23.09.2021	At the site	ASHUTOSH	20
15	Earth Moving Machinery	30.09.2021	At the site	ASHUTOSH	25
		Banswa	ra Town		
1	Material handling safety	20.09.2021	Banswara	Heera Babu	08
2	House keeping	22.09.2021	Banswara	Heera Babu	09
3	Road safety	23.09.2021	Banswara	Heera Babu	10
4	House keeping	25.09.2021	Banswara	Heera Babu	05
5	Excavation Safety	27.09.2021	Banswara	Heera Babu	09
6	Loading unloading safety	28.09.2021	Banswara	Heera Babu	12
7	House keeping	30.09.2021	Banswara	Heera Babu	11
	Trouse keeping		an Town	Tieera Dabu	11
1	Excavation &Electrical Safety,	04.09.2021	Training Center	Anurag	19
'	Working on Road Safety, Material Handling Safety COVID Awareness	04.09.2021	Training Center	Bagherwal	19
2	Excavation & Electrical Safety, Importance of Barricade & PPES, Working on Road Safety, Material Handling Safety, COVID Awareness	07.09.2021	Training Center	Anurag Bagherwal	09
3	Excavation &Electrical Safety, Awareness for COVID-19	07.09.2021	Shiv Nagar	Anurag Bagherwal	13
4	Excavation & Electrical Safety, Importance of Barricade & PPES, Working on Road Safety, Material Handling Safety, COVID Awareness	13.09.2021	Training Center	Anurag Bagherwal	08
5	Excavation & Electrical Safety, Importance of Barricade & PPES, Working on Road Safety, Material Handling Safety, COVID Awareness	15.09.2021	Training Center	Anurag Bagherwal	09
6	Excavation & Electrical Safety, Awareness for COVID-19	16.09.2021	Training Center	Anurag Bagherwal	05
7	Excavation &Electrical Safety, Awareness for COVID-19 & Fire Safety	17.09.2021	Training Center	Anurag Bagherwal	10
8	Excavation &Electrical Safety, Importance of Barricade & PPES, Working on Road Safety, Material Handling Safety, COVID Awareness	20.09.2021	Training Center	Anurag Bagherwal	14
9	Excavation &Electrical Safety, Awareness for COVID-19	20.09.2021	Training Center	Anurag Bagherwal	04
10	Excavation &Electrical Safety, Importance of Barricade & PPES, Working on Road Safety, Material Handling Safety, COVID Awareness	21.09.2021	Training Center	Anurag Bagherwal	06
11	Excavation &Electrical Safety, Awareness for COVID-19	25.09.2021	Training Center	Anurag Bagherwal	13
12.	Excavation &Electrical Safety,	28.09.2021	Training Center	Anurag	08

,					
	Importance of Barricade &			Bagherwal	
	PPES, Working on Road				
	Safety, Material Handling				
	Safety, COVID Awareness		_		
13	Excavation & Electrical Safety,	29.09.2021	Training Center	Anurag	23
	Importance of Barricade &			Bagherwal	
	PPES, Working on Road				
	Safety, Material Handling				
	Safety, COVID Awareness	Didwon	ia Town		
1	Confined space training	15.09.2021	Office	Robin Maprani	15
2		05.09.2021	All sites	Anil Panchal	30
3	Site specific training Environmental Safeguard	14.09.2021	Office	Ahay	10
3	Orientation at site	14.09.2021	Office	Srivastava	10
4	SOT training	21.09.2021	Office	Kaveri	06
5	Induction training	All month	All sites	Robin &	All workers
3	induction training	All IIIOIIII	All Siles	Shyam	All Workers
6	Alert training	All month	All sites	Shyam	All workers
0	Alert training	All Illollar	All Sites	Chaudhary	All Workers
	1	Makran	a Town	Orladariary	
1	Confined space training	15.09.2021	Office	Robin Maprani	15
2	Environmental Safeguard	14.09.2021	Office	Abhay	10
-	Orientation for staff	11.00.2021	O moo	Srivastava	.0
3	SOT training	21.09.2021	Office	Kaveri Dutta	20
4	Induction training	All month	All sites	Robin & Zakir	All workers
5	Alert training	All month	All sites	Zakir Khan	All workers
<u> </u>	7g		Town		7
1	Site induction training	20.09.2021	Work sites &	32	-
		to	L&T office		
		30.09.2021			
2	Alert training	30.09.2021	L&T Office	6	-
3	Confined Space training	22.09.2021	L&T office	7	-
		Mandav	va Town		
1	Excavation Safety Training	04.08.2021	ZONE-03	Manoj	07
2	Excavation Safety Training	09.08.2021	ZONE-01	Manoj	05
3	Excavation Safety Training	20.08.2021	ZONE-02	Manoj	11
4	Excavation Safety Training	28.08.2021	ZONE-01	Manoj	09
5	Manual material handling	07.09.2021	ZONE-03	Manoj	13
	Training			-	
7	Excavation Safety Training	13.09.2021	ZONE-02	Manoj	04
8	Electrical & Excavation Safety	18.09.2021	ZONE-01	Manoj	16
	Training				
9	Electrical Safety Training	26.09.2021	ZONE-03	Manoj	06
10	Excavation Safety Training	29.09.2021	ZONE-02	Manoj	14
	1		Town	,	
1.	Road safety	05.07.2021	Khetri	Raj Kapoor	05
2.	Excavation Safety	12.07.2021	Khetri	Raj Kapoor	08
3.	Material handling safety	19.07.2021	Khetri	Raj Kapoor	09
4.	House keeping	26.07.2021	Khetri	Raj Kapoor	07
5.	Road safety	03.08.2021	Khetri	Raj Kapoor	05
6.	Excavation Safety	08.08.2021	Khetri	Raj Kapoor	06
7.	Material handling safety	17.08.2021	Khetri	Raj Kapoor	09
8.	House keeping	22.08.2021	Khetri	Raj Kapoor	10
9.	Road safety	06.09.2021	Khetri	Raj Kapoor	09
10.	Excavation Safety	13.09.2021	Khetri	Raj Kapoor	08
11.	Material handling safety	23.09.2021	Khetri	Raj Kapoor	11
12.	House keeping	29.092021	Khetri	Raj Kapoor	08

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

Note; Directions by PMU to all PIUs for implementation of Prevention and Control Measures Adopted for COVID-19 as per RUIDP's "SOP-COVID-19 Management Plan" was issued vide letter no. 12680-85 dtd. 01.02.2021 and copy of same was attached in Appendix 10 of SEMR (October 2020 to March 2021)

COVID-19 (Awareness, Prevention and Control) Compliance by Towns during April 2021 to September 2021

S.	Activities done	Date Location		No. of Remarks		
No.	Addivided delle	Duto	Location	Participant s	Romano	
		Abu Road	l 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		
		Sirohi T	own			
1	Awareness in daily PEP talk	Everyday	All Locations	_		
2	Awareness and Poster Display	On Weekly Basis	All Locations	NA		
3	Thermal Screening at site	On Daily Basis	All Locations	NA		
4	Regular Disinfection Activity	On Weekly Basis	All Locations	NA		
	+ · · · · · · · · · · · · · · · · · · ·	Sardarshah		1		
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		
1	Regular Disinfection Activity	Weekly Basis	All Locations	NA		
2	Hand Sanitization Activity	Regular Basis	All Locations	NA		
3	COVID-19 Awareness & Precautions Training	eness & 18.06.2021 Site & Office		120		
4	Thermal Screening	Everyday	All Locations	-		
		Ratangarh				
1	Office disinfection	05.01.2021, 15.01.2021	AT L&T OFFICE	NA		
2	Office ,Labor Camp Disinfection	25.02.2021	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	-	-		

Rajasthan Secondary Towns Development Sector Project (RSTDSP)

_	Thermal Screening	Everyday	All Locat	ions		1
5	Thermal corcerning			10110		
1	COVID Training	Laxmangai Regularly	Store	Office,	_	
ı	COVID Hairling	Regularly	Sites	Office,	-	
2	Disinfection	Twice in a day	Store Sites	Office,	-	
3	Hand Sanitization	On regular basis	Store Sites	Office,	-	
4	Thermal Screening	Everyday	Store Sites	Office,	-	
5	COVID 19 Test	-			All Staff	
6	COVID 19 vaccination	-			All Staff	
		Pratapgar	h Town			
1	Thermal Screening & Disinfection activity	On daily basis	At the sit	е	All workers	-
2	COVID-19 Training	05.04.2021, 15.05.2021, 25.05.2021, 15.06.2021, 05.07.2021, 15.07.2021, 25.07.2021	At the sit	е	87	-
3	Hand Sanitization	Regular Basis	All Locat	ions	NA	
		Banswara	a town			-
1	Thermal Screening at site	On Daily Basis	All Locat	ions	NA	
2	Regular Disinfection Activity	On Weekly Basis	All Locat	ions	NA	
3	Hand Sanitization Activity	On Daily Basis	All Locat		-	
4	Mask and Soap Distribution	On Weekly Basis	All Locat	ions	NA	
		Kuchamaı	n Town		1	
1	COVID-19 Awareness & Precautions Training In Daily PEP	On Daily Basis	Project S	Site	-	
2	Thermal Screening at site	On Daily Basis	All Locat	ions	-	
3	Disinfection Activity	On Weekly Basis	All Locat	ions	-	Office, Workmen Habitat & Guest House , Sites Premises
4	Hand Sanitization Activity	On Daily Basis	All Locat	ions	-	
		Didwana	Town			
1	Digital face attendance	On Daily Basis	All Locat	ions	NA	
2	Hand Sanitization Activity	On Daily Basis	All Locat	ions	NA	
3	Awareness and Poster Display	01/09/2021	Office		20	
4	Thermal Screening at site	On Daily Basis	All Locat	ions	All workers	
		Makrana	Town			
1	Digital face attendance	On Daily Basis	All Locat	ions	NA	
2	Hand Sanitization Activity	On Daily Basis	All Locat	ions	NA	
3	Awareness and Poster Display	01/09/2021	Office		20	
4	Thermal Screening at site	On Daily Basis	All Locat	ions	All workers	

	Mandawa Town											
1.	On Daily Basis											
2.												
	·	Khetri	Town									
1	Hand Sanitization Activity	Daily	All Locations	-								
2	Awareness in daily PEP talk	Everyday	All Location	-								
3	Thermal Screening	Daily	All Locations	-								

Photographs showing COVID-19 (Awareness, Prevention and Control) Compliance by Towns during April to September 2021





Mask & Sanitizer Distribution



Office & Labor Camp Disinfection





Awareness among workers against COVID-



Regular Disinfection Activity

Laxmangarh Town



Awareness Campaigns against COVID-19



Glucose Distribution

Pratapgarh Town



Thermal Screening at the site



Face Mask Distrubtion

Banswara Town







Appendix 10: ENVIRONMENTAL MONITORING RESULTS DURING APRIL 2021 - SEPTEMBER 2021 IN RSTDSP

Air Monitoring Results

		Air Monitori	ng ixesuit	.3	ı		T
	Package / Town / Monitoring Location	Monitoring date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	co
	Location	uate			μg/m³		
	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/SHR-ABR/01						111111
	Abu Road						
	Sewer Network Talhati	10.04.2021 to 11.04.2021	89.91	47.68	10.34	23.81	480
	Water Network Akrabhatta	10.04.2021 to 11.04.2021	87.06	43.31	10.62	23.65	470
	Manpur Workman colony	11.04.2021 to 12.04.2021	78.84	39.28	8.10	21.15	470
	Santpur STP & WTP	11.04.2021 to 12.04.2021	73.89	34.13	9.77	17.39	800
	Sirohi Town					I	1
	Work Man Habitat & 5.0 MLD STP	12.07.2021 to 13.07.2021	70.09	29.55	11.60	15.08	670
	Near 1.7 MLD STP	12.07.2021 to 13.07.2021	63.80	28.13	7.59	13.18	660
	Bhadrankar Nagar	13.07.2021 to 14.07.2021	58.08	26.49	7.29	12.45	600
2	RSTDIP/PRT/01						
	Pratapgarh Town			1		1	
	Labour Yard, Housing Board	15.06.2021	80.27	39.86	9.25	26.43	540
	Bhatpura Darwaza At Sewage Treatment Plant, Near Ahinsa Circle	15.06.2021 15.06.2021	85.36 88.40	42.79 45.36	9.08	24.18 25.70	520 550
3	RSTDIP/BNS/04	I	<u>l</u>	<u>L</u>	<u> </u>	<u> </u>	<u> </u>
	Banswara Town						
	WTP-AEN (PHED) Campus	02.07.2021 to 03.07.2021	61.6	27.4	8.5	13.1	340
	Kagdi Site	02.07.2021 to 03.07.2021	58.3	24.5	7.2	11.1	180
	STP Site	02.07.2021 to 03.07.2021	66.4	28.8	8.8	12.4	360
	SPS At Nathelav pond	02.07.2021 to	64.4	29.3	10.2	13.8	400

	Package / Town / Monitoring	Monitoring	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	СО
	Location	date	PIVI ₁₀	PIVI _{2.5}	302	NO ₂	CO
		03.07.2021					
	SPS at Pratapgarh Road	02.07.2021	78.4	37.2	13.8	19.4	500
		to					
	Near ST bus stand	03.07.2021	88.2	48.7	16.4	22.3	610
	Near ST bus stand	to	00.2	46.7	10.4	22.3	610
		03.07.2021					
4	RSTDIP/ SRD/01	00.07.2021					
	Sardarshahar Town						
	STP-1 (2.30 MLD) South	12.07.21 to	79.96	31.68	11.27	21.18	740
	Campus	13.07.21					
	PHED Campus-CWR (2400 KL)	12.07.21 to	86.11	38.72	15.65	27.64	940
	& PH at Hanumangarh Road	13.07.21	04.00	04.00	40.00	04.00	700
	STP-2 (3.40 MLD) North	12.07.21 to	81.96	31.92	12.69	21.38	790
	Campus Ramnagar Sullage Pipeline Zone	13.07.21 12.07.21 to	74.24	29.14	9.47	17.26	750
	3	13.07.21	17.24	23.14	3.41	17.20	750
	Near Meena ka Kawa Guest	12.07.21 to	76.0	30.60	11.17	19.07	780
	House Zone 4B	13.07.21					
5	RSTDIP/KTR/03	,					
	Khetri Town						
	Near UP Koshadhikari Office	25.06.2021	72.62	36.54	8.06	16.44	300
	Near Old PHED office	25.06.2021	79.52	39.21	8.62	17.06	320
	Near Ajeet Govt. Hospital	25.06.2021	67.18	36.51	6.34	15.84	280
	Near JEN Staff Colony	25.06.2021	67.48	35.32	7.34	16.26	280
	In Jai Singh Govt. School	25.06.2021	66.08	35.29	6.48	15.36	260
	Near ITI College	25.06.2021	71.14	36.61	7.12	16.26	300
	Near Prashashanik Bhawan	25.06.2021	73.80	38.42	7.22	16.06	300
6	RSTDIP/KMN/02						
	Kuchaman Town						
	RUIDP Office (Near SPS-02)	23.08.21 to	72.5	34.8	8.5	22.0	420
		24.08.21					
	Kuber Complex in Market	23.08.21 to	78.0	40.9	9.5	23.0	530
	North Day Of Lift (CTD)	24.08.21	70.1	20.1	0.7	05.0	050
	Near Bus Stand (Near STP)	23.08.21 to 24.08.21	76.1	39.1	9.7	25.0	350
	Old CWR, Near PHED Office	23.08.21 to	78.2	53.5	7.2	23.0	430
	,	24.08.21			_		-
	Pachwa Road, Old CWR	23.08.21 to	86.5	50.8	9.3	27.0	470
		24.08.21					
	BSNL Office, Near SPS-01	23.08.21 to	70.5	41.7	8.1	28.0	400
7	RSTDIP/MDW/03	24.08.21					
7	Mandawa Town						
<u> </u>	SPS-1 (PHED) Campus beside	02.09.21 to	61.26	27.31	7.16	12.42	380
	SPS Site	03.09.21	01.20	27.01	0	12.72	550
	CWR Site-1	02.09.21 to	63.43	27.86	7.92	13.20	420
L		03.09.21					
	STP Site-1	02.09.21 to	66.27	28.08	8.02	14.06	460
		03.09.21			_		
	Pipe laying site within the	02.09.21 to			8.36	14.68	500
	preferably near sensitive	03.09.21					

	Package / Town / Monitoring Location	Monitoring date	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	со
	receptor-1						
8	RSTDIP/DID/01				•		
	Didwana Town						
	STP-2	30.08.2021	80.0	41.0	7.6	25.0	530
		to					
		31.08.2021					
	SPS-2, Near Power House	30.08.2021	74.0	44.0	9.3	24.0	420
		to					
		31.08.2021					
	Pipe Laying Site-1	30.08.2021	69.0	35.0	9.7	29.0	510
		to					
		31.08.2021					
	SPS-1, Near Temple	30.08.2021	78.0	38.0	9.9	25.0	570
		to					
	DOTRID/MICNI/04	31.08.2021					
9	RSTDIP/MKN/01						
	Makrana Town	00.00.0004	04.0	45.0	7.0	00.0	450
	Main Office, Near Suncity	26.08.2021	84.0	45.0	7.6	29.0	450
	Hospital	to					
	Workman Colony Store Vord	30.08.2021 26.08.2021	79.0	43.0	7.0	25.0	E40
	Workmen Colony, Store Yard		79.0	43.0	7.3	25.0	540
		to 30.08.2021					
	STP Site, Borawar Road	26.08.2021	82.0	49.0	8.7	21.0	500
	31F Site, Bolawai Noau	to	02.0	49.0	0.7	21.0	500
		30.08.2021					
	SPS-1, Jhalara Pond	26.08.2021	70.0	40.0	9.7	24.0	420
	or o 1, unalara r ona	to	70.0	40.0	3.1	24.0	720
		30.08.2021					
	SPS-2, Matabhar	26.08.2021	83.0	52.0	6.6	28.0	390
		to			0.0	20.0	
		30.08.2021					
	Pipe Laying Site, Near UMA	26.08.2021	70.0	32.0	6.8	27.0	420
	Hospital	to			0.10		
		30.08.2021					
10	RSTDIP/LDN/01					•	
	Ladnu Town						
	STP-2, Ladnu	02.09.2021	86.0	50.0	7.6	34.0	380
		to					
		05.09.2021					
	Pipe Laying Site-2	02.09.2021	81.0	48.0	8.6	24.0	540
		to					
		05.09.2021					_
	STP-1	02.09.2021	72.0	40.0	9.7	25.0	620
		to					
		05.09.2021		45.5		00.0	=
	Pipe Laying Site-1	02.09.2021	87.0	43.0	9.9	28.0	500
		to					
		05.09.2021					

Noise Monitoring Results

		Noise Monito	ring Results		
	Package / Town / Monitoring Location	Monitoring date	Type of area	Noise Level	L_{eq} (dB(A))
				Day time	Night time
			Industrial Area	75	70
			Commercial/	65	55
	Noise Standard (National)		Mixed Area		
	Noise Standard (National)		Residential/	55	45
			Rural		
			Sensitive area	50	40
	Applicable Per ADB SPS		Residential/	55 dB(A)	45 dB(A)
	(IFC's limits for Noise Level)		institutional/		
			educational		
1	RSTDIP/SHR-ABR/01				
	Abu Road Town				
	Sewer Network Talhati	10.04.2021	Residential	56.35	45.80
		to			
		11.04.2021			
	Water Network Akrabhatta	10.04.2021	Residential	57.65	44.85
		to			
		11.04.2021			
	Manpur Workman colony	11.04.2021	Residential	58.40	46.75
		to			
		12.04.2021			
	Santpur STP & WTP	11.04.2021	Residential	58.25	45.25
		to			
		12.04.2021			
	Sirohi Town	10.07.0001		=	40.00
	Work Man Habitat & 5.0 MLD	12.07.2021	Residential	58.23	43.62
	STP	to			
	No. and 7 MI D OTD	13.07.2021	Desidential	04.05	45.04
	Near 1.7 MLD STP	12.07.2021	Residential	61.25	45.34
		to 13.07.2021			
	Bhadrankar Nagar	13.07.2021	Residential	57.36	42.15
	Bilaurankai Nagai	to	Residential	57.30	42.13
		14.07.2021			
2	RSTDIP/PRT/01	14.07.2021			
	Pratapgarh Town				
	Labour Yard, Housing Board	15.06.2021	Residential	55.4	46.2
	Bhatpura Darwaza	15.06.2021	Residential	59.2	45.5
	At Sewage Treatment Plant,	15.06.2021	Residential	56.2	48.5
	Near Ahinsa Circle		, tooladiitiai	00. <u>L</u>	.0.0
3	RSTDIP/BNS/04				I.
	Banswara Town				
	WTP-AEN (PHED) Campus	30.06.2021	Residential	56	48
	Kagdi Site	30.06.2021	Residential	50	42
	STP Site	30.06.2021	Residential	61	55
	SPS at Nathelav pond	01.07.2021	Residential	63	52
	SPS at Pratapgarh Road	30.06.2021	Residential	67	58
	Near ST bus stand	01.07.2021	Residential	73	67
4	RSTDIP/SRD/01	-			
	Sardarshahar Town				
	STP-1 (2.30 MLD) South	12.07.21 to	Residential	42.56	38.24
	Campus	13.07.21			
	PHED Campus-CWR (2400 KL)	12.07.21 to	Residential	42.56	44.68
	& PH at Hanumangarh Road	13.07.21			

	Package / Town / Monitoring Location	Monitoring date	Type of area	Noise Level	L_{eq} (dB(A))
	STP-2 (3.40 MLD) North Campus	12.07.21 to 13.07.21	Residential	47.27	39.48
	Ramnagar Sullage Pipeline Zone 3	12.07.21 to 13.07.21	Residential	48.31	38.16
	Near Meena ka Kawa Guest House Zone 4B	12.07.21 to 13.07.21	Residential	53.26	49.61
5	RSTDIP/KTR/03				
	Khetri Town	05.00.0004	D:	50.0	40.0
	Near UP Koshadhikari Office	25.06.2021	Residential	59.6	49.2
	Near Old PHED office	25.06.2021	Residential	59.7	47.2
	Near Ajeet Govt. Hospital	25.06.2021	Residential	53.2	42.2
	Near JEN Staff Colony	25.06.2021	Residential	55.1	46.2
	In Jai Singh Govt. School	25.06.2021	Residential	56.3	44.5
	Proposed Site	25.06.2021	Residential	57.5	48.2
	Near Prashashanik Bhawan	25.06.2021	Residential	57.8	44.6
3	RSTDIP/KMN/02				
	Kuchaman Town	02.00.04 4	Decidential	FO 4	44.4
	RUIDP Office (Near SPS-02)	23.08.21 to 24.08.21	Residential	56.4	41.1
	Kuber Complex in Market	23.08.21 to 24.08.21	Residential	64.2	44.0
	Near Bus Stand (Near STP)	23.08.21 to 24.08.21	Residential	62.0	43.7
	Old CWR, Near PHED Office	23.08.21 to 24.08.21	Residential	65.1	44.4
	Pachwa Road, Old CWR	23.08.21 to 24.08.21	Residential	60.3	43.2
	BSNL Office, Near SPS-01	23.08.21 to 24.08.21	Residential	53.9	40.2
7	RSTDIP/MDW/03 Mandawa Town				
	SPS-1 (PHED) Campus beside	03.09.21 to	Residential	50.46	41.57
	SPS Site CWR Site-1	04.09.21 to 03.09.21 to	Residential	51.36	42.71
		04.09.21			
	STP Site-1	03.09.21 to 04.09.21	Residential	51.46	40.62
	Pipe laying site within the preferably near sensitive receptor-1	03.09.21 to 04.09.21	Residential	53.42	43.57
}	RSTDIP/DID/01				
	Didwana Town				
	STP-2	25.08.2021 to	Residential	63.5	42.9
	SPS-2, Near Power House	01.09.2021 25.08.2021 to 01.09.2021	Residential	59.4	43.0
	Pipe Laying Site-1	25.08.2021 to 01.09.2021	Residential	60.7	45.7
	SPS-1, Near Temple	25.08.2021 to 01.09.2021	Residential	58.3	42.2

	Package / Town / Monitoring Location	Monitoring date	Type of area	Noise Level	L _{eq} (dB(A))
	Makrana Town				
	Main Office, Near Suncity	26.08.2021	Residential	61.3	42.0
	Hospital	to			
		28.08.2021			
	Workmen Colony, Store Yard	26.08.2021	Residential	63.3	45.0
		to			
		28.08.2021			
	STP Site, Borawar Road	26.08.2021	Residential	62.3	43.9
	,	to			
		28.08.2021			
	SPS-1, Jhalara Pond	26.08.2021	Residential	60.9	40.7
	,	to			
		28.08.2021			
	SPS-2, Matabhar	26.08.2021	Residential	60.7	42.5
	,	to			
		28.08.2021			
	Pipe Laying Site, Near UMA	26.08.2021	Residential	58.4	44.4
	Hospital	to			
	·	28.08.2021			
10	RSTDIP/LDN/01		1		
	Ladnu Town				
	STP-2, Ladnu	02.09.2021	Residential	55.7	39.5
	,	to			
		04.09.2021			
	Pipe Laying Site-2	02.09.2021	Residential	57.2	43.3
	. , ,	to			
		04.09.2021			
	STP-1	02.09.2021	Residential	62.0	49.3
		to			
		04.09.2021			
	Pipe Laying Site-1	02.09.2021	Residential	64.9	46.8
	' ' '	to			
		04.09.2021			

Surface Water Quality Monitoring

S. No	Parameter	RSTDIP/BNS/04	
NO		Banswara (Date of Sampling: 01.07.2021 to 05.07.2021)	Drinking water standards (desirable – permissible value)
		Kagdi Intake	
1	pH(at 25°c)	7.70	6.5 – 8.5
2	Colour	-	
3	Turbidity	4.1	5-10
4	Odour	-	
5	Conductivity	-	750 - 2000
6	Total Hardness	192	300-600
7	Sodium	22	
8	Potassium	4	
9	Alkalinity	-	200-600
10	Chloride	64	250-1000
11	Magnesium	35	30-100
12	TDS	448	500-2000

S.	Parameter	RSTDIP/BNS/04	
No		Banswara (Date of Sampling: 01.07.2021 to 05.07.2021)	Drinking water standards (desirable – permissible value)
		Kagdi Intake	
13	TSS	12	
14	Sulphate	24	200-400
15	Calcium	46	
16	Fluoride	1.1	1-1.5
17	Oil & Grease	-	
18	DO	4.8	
19	COD	BDL<4	
20	BOD	BDL<2	
21	Nitrate	-	45-100
22	Nitrite	-	Nil
23	Iron	0.26	0.3-1.0
24	Total Chromium	-	
25	Zinc	0.26	5-15
26	Copper	0.08	0.05-1.5
27	Manganese	-	0.1-0.3
28	Lead	-	0.01-0.05
29	Arsenic	-	0.01-0.05
30	TC	-	10
31	FC	-	<2.00
32	Mercury	0.1	
33	Boron (As B)	0.07	

Ground water Quality Monitoring Results

S. No	Parameter	RSTDIP/SHR-ABR/01				RSTDII	P/PRT/01		RSTDI	P/BNS/04	4		Drinkin g water				
		Abu F (Date of s (10.04.	ampling	(Date of	rohi sampling 3.2021)	(Da	apgarh ate of 15.06.2021)	(Date o	of sampli	swara ing: 01.0 7.2021)	7.2021 to	(Date		darshahai ing: 17.7.2		'.21)	standa rds (desira ble – permis sible value)
		Santpur STP & WTP	Manpur Workm an colony	WTP (At Angore PHED Campus)	Bore well at Labour Colony/ Workman Camp	Raj Mandir Kila Parisar, Near STP site	Bhatpura Darwaza	SPS at Pratap garh Road	SPS at Nath elav pond	STP Site	AEN (PHED Campus)	STP-1 (2.30 MLD) South Campu s	PHED Campu s-CWR (2400 KL) & PH at Hanum angarh Road	STP-2 (3.40 MLD) North Campu s	Near Meen a ka Kawa Gues t Hous e Zone 4B	Ram nagar Sewa ge Pipeli ne Zone 3	
1	pH(at 25°c)	7.68	7.64	7.66	7.53	7.34	7.47	7.36	7.24	7.10	7.42	8.06	7.61	7.87	7.87	7.72	6.5 – 8.5
2	Temperature	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	Turbidity	-	-	0.2	0.4	<01	<01	-	-	-	-	-	-	-	-	-	5-10
4	Conductivity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750 - 2000
5	Total Hardness	188.60	174.80	131	132	168.16	344.34	260	334	392	120	439.04	101.92	98.0	117.6	35.28	300- 600
6	Calcium	55.31	51.62	34.4	29.6	62.52	121.84	-	-	-	-	-	-	-	-	-	75-200
7	Sodium	-	-	-	-	37.20	86.18	-	-	-	-	-	-	-	-	-	
8	Potassium	-	-	-	-	16.74	38.78	-	-	-	-	-	-	-	-	-	
9	Alkalinity	166.46	154.28	142	155	124.00	300.00	132	198	160	56	403.92	93.84	175.44	134.6 4	440.6 4	200- 600
10	Chloride	386.59	371.05	45.2	40.8	170.16	124.07	28	92	62	20	352.1	31.34	156.7	55.30	302.3 2	250- 1000
11	Magnesium	12.30	11.18	3.2	3.3	2.91	9.72	-	-	-	-	-	-	-	-	-	30-100
12	TDS	974.30	933.30	288	280	532.06	795.18	436	698	610	288	1485	178	504	287	1152	500- 2000
13	TSS	-	-	-	-	17.80	21.80					-	-	-	-	-	
14	Sulphate	110.89	94.76	13.65	15.16	68.17	49.63	10	28	42	10.6	147.04	10.91	28.33	21.27	116.0 5	200- 400

Rajasthan Secondary Towns Development Sector Project (RSTDSP)

S. No	Parameter RSTDIP/SHR-ABR/01					RSTDIP/PRT/01 RSTDIP/BNS/04							Drinkin g water				
			(Date of sampling (10.04.2021) (Date of sampling 05.06.2021)			Pratapgarh (Date of sampling15.06.2021)		(Date o	f sampli	swara ng: 01.0 7.2021)	7.2021 to	Sardarshahar (Date of sampling: 17.7.21 to 22.7.21)					standa rds (desira ble – permis sible value)
		Santpur STP & WTP	Manpur Workm an colony	WTP (At Angore PHED Campus)	Bore well at Labour Colony/ Workman Camp	Raj Mandir Kila Parisar, Near STP site	Bhatpura Darwaza	SPS at Pratap garh Road	SPS at Nath elav pond	STP Site	AEN (PHED Campus)	STP-1 (2.30 MLD) South Campu s	PHED Campu s-CWR (2400 KL) & PH at Hanum angarh Road	STP-2 (3.40 MLD) North Campu s	Near Meen a ka Kawa Gues t Hous e Zone	Ram nagar Sewa ge Pipeli ne Zone 3	valuo
15	Phosphate	-	-	-	-	-	-	0.17	0.56	0.12	0.27	0.31	BDL	BDL	BDL	0.24	
16	Fluoride	0.68	0.62	0.12	0.25	0.11	0.12	0.92	1.0	0.86	0.78	0.98	0.2	0.27	0.21	0.51	1-1.5
17	Oil & Grease	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
18	DO	-	-	-	-	5.20	4.80	5.5	5.2	5.6	5.8	5.1	5.8	5.5	5.9	5.6	
19	COD	-	-	-	-	16.70	19.60	-	-	-	-	-	-	-	-	-	
20	BOD	-	-	-	-	1.80	2.50	-	-	-	-	-	-	-	-	-	45-100
21	Nitrate	12.73	10.49	1.31	2.01	11.80	28.12	5.07	4.2	14.6	3.17	26.34	7.62	13.9	12.68	30.56	Nil
22	Nitrite	-	- 0.40	-	-	0.00	0.00	0.40	0.00	0.40	0.45	-	-	-	-	-	0.3-1.0
23	Iron Total Chromium	0.22	0.18	0.01	0.01 -	0.06	0.08	0.18	0.28	0.12	0.15	0.26	BDL -	BDL -	BDL -	BDL -	5-15
25	Zinc	-	-	-	-	0.37	0.95	0.12	0.14	0.22	0.14	-	-	-	-	-	0.05- 1.5
26	Copper	-	-	-	-	0.02	0.02	0.05	0.1	0.1	0.08	-	-	-	-	-	0.1-0.3
27	Manganese	-	-	-	-	-	-	0.04	0.09	0.06	0.05	-	-	-	-	-	0.01- 0.05
28	Lead	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01- 0.05
29	Arsenic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10

Ground water Quality Monitoring Results (Continued—2)

S. No	Parameter								RSTDI	P/KMN/02			RSTDIP/N	/IDW/03	Drinking water standards
			1)		ri Town bling: 24.06.20	021)		Date		man Town oling: 24.0		Date	Mandawa os sampl	(desirable – permissible value)	
		Near UP Koshadhi kari Office	Near Old PHED office	Near Ajeet Govt. Hospital	Near JEN Staff Colony	In Jai Singh Govt. School	Siddhi Vinayak Temple	RUIDP Office (Near SPS- 02)	Near Bus Stan d (Near STP)	Old CWR, Near PHED Office	Pachwa Road, Old CWR	STP- 1	CWR site-1	SPS-1	
1	pH(at 25°c)	7.17	7.11	7.06	7.24	7.32	7.41	8.92	8.70	8.72	8.17	8.12	8.19	7.56	6.5 – 8.5
2	Temperature	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	Turbidity	-	-	-	-	-	-	-	-	-	-	-	-	-	5-10
4	Conductivity	-	-	-	-	-	-	-	-	-	-	-	-	-	750 - 2000
5	Total Hardness	204.0	210.0	196.0	200.0	206.0	196.0	72.0	636.0	510.0	128.0	158.4	182.86	182.86	300-600
6	Calcium	-	-	-	-	-	-	1200.0	3800	2600.0	1100.0	-	-	-	75-200
7	Sodium	-	-	-	-	-	-	-	-	-	-	-	-	-	
8	Potassium	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	Alkalinity	235	220	225	225	215	230	572.0	468.0	504.0	80.0	469.9	799.8	768.3	200-600
10	Chloride	151.95	145.98	149.00	145.95	153.95	165.98	372.0	322.0	256.0	378.0	13.87	313.93	317.65	250-1000
11	Magnesium	-	-	-	-	-	-	-	-	-	-	-	-	-	30-100
12	TDS	300.0	320.0	315.0	310.0	298.0	280.0	1534.0	2067. 0	1852.0	168.0	500	1462.0	1467.0	500-2000
13	TSS	-	-	-	1	-	-	-	-		1	-	-	-	
14	Sulphate	72.45	78.32	68.51	65.25	73.46	71.25	121.0	87.0	196.0	23.0	38.10	94.74	95.03	200-400
15	Phosphate	-	-	-	-	-	-	<0.15	0.13	<0.15	<0.15	0.25	0.42	0.40	
16	Fluoride	0.38	0.46	0.41	0.31	0.36	0.30	1.1	1.2	0.54	0.24	0.46	0.73	0.74	1-1.5
17	Oil & Grease	-	-	-	-	-	-								
18	DO	6.1	6.6	5.4	5.7	5.4	6.4	5.4	5.8	6.0	5.6	6.1	5.7	5.8	
19	Copper as Cu	-	-	-	-	-	-	<0.02	<0.02	<0.02	<0.02	-	-	-	
20	Phenolic Compound	-	-	-	-	-	-	<0.001	<0.00 1	<0.001	<0.001	-	-	-	45-100
21	Nitrate	19.24	16.23	17.21	16.34	18.35	14.78	20.0	85.0	55.0	2.0	19.02	31.09	28.83	Nil
22	Nitrite	-	-	-	-	-	-	-	_	-	-	-	-	-	0.3-1.0
23	Iron	0.16	0.12	0.24	0.13	0.15	0.17	<0.05	<0.05	<0.05	<0.05	0.13	0.18	0.17	
24	Total Chromium	-	-	-	1	-	1	-	-	ı	•	-	-	-	5-15

Rajasthan Secondary Towns Development Sector Project (RSTDSP)

S. No	Parameter		RSTDIP/KTR/03 RSTDIP/KMN/02 Khetri Town (Date of Sampling: 24.06.2021) RSTDIP/KMN/02 Kuchaman Town Date of Sampling: 24.08.2021				1	Date	RSTDIP/M Mandawa os sampli		Drinking water standards (desirable – permissible value)				
		Near UP Koshadhi kari Office	Near Old PHED office	Near Ajeet Govt. Hospital	Near JEN Staff Colony	In Jai Singh Govt. School	Siddhi Vinayak Temple	RUIDP Office (Near SPS- 02)	Near Bus Stan d (Near STP)	Old CWR, Near PHED Office	Pachwa Road, Old CWR	STP- 1	CWR site-1	SPS-1	
25	Zinc	-	-	-	-	-	-	<0.02	<0.02	<0.02	<0.02	-	-	-	0.05-1.5
26	Cadmium as Cd	-	-	-	-	-	-	<0.001	<0.00 1	<0.001	<0.001	-	-	-	0.1-0.3
27	Manganese	-	-	-	-	-	-	<0.02	<0.02	<0.02	<0.02	-	-	-	0.01-0.05
28	Lead	-	-	-	-	-	-	<0.005	<0.00 5	<0.005	<0.005	-	-	-	0.01-0.05
29	Arsenic	-	-	-	-	-	-	<0.005	<0.00 5	<0.005	<0.005				10

Ground water Quality Monitoring Results (Continued—3)

S. No	Parameter		RSTDI	P/DID/01				RSTDIP/M	KN/01				RSTDIP	/LDN/01		Drinkin g water
		Date of		na Town 24.08.2021 to	26.08.21		Date of Sam	Makrana ⁻ pling: 24.0		26.08.21		Dat		i Town ling: 26.08	3.21	standa rds
		STP Site	SPS-2	Pipe Laying Site-1	SPS-1, Near Temple	Office near Suncity Hospital	Workmen Colony	STP Site (Boraw ar Road)	SPS-1 (Near Moksh a Dham)	SPS-2 (Matab har)	Pipe Laying Site, Near Uma hospit al	Pipe Layin g Site-1	STP Site -2	Pipe Laying Site -2	STP- 1	desira ble – permis sible value)
1	pH(at 25°c)	8.22	7.71	8.57	8.92	7.2	7.96	7.88	7.33	7.59	7.86	7.51	8.23	7.87	8.14	6.5 – 8.5
2	Temperature	-	-	-	-	-	-	-	-		-					
3	Turbidity	-	-	-	-	-	-	-	-		-					5-10
4	Conductivity	-	-	-	-	-	-	-	-		-					750 - 2000
5	Total Hardness	307	230	787.0	173.0	614.0	165.0	346.0	1498.0	1555.0	307.0	614.0	346.0	230.0	1018. 0	300- 600

Rajasthan Secondary Towns Development Sector Project (RSTDSP)

S. No	Parameter		RSTDI	P/DID/01				RSTDIP/M	KN/01				RSTDIP	P/LDN/01		Drinkin g water
-110			Didwa	na Town				Makrana ⁻	Town				Ladnu	ı Town		standa
		Date of	Sampling: 2	24.08.2021 to	26.08.21		Date of Sam	pling: 24.0	8.2021 to	26.08.21		Dat	e of Samp	oling: 26.08	8.21	rds
		STP Site	SPS-2	Pipe Laying Site-1	SPS-1, Near Temple	Office near Suncity Hospital	Workmen Colony	STP Site (Boraw ar Road)	SPS-1 (Near Moksh a Dham)	SPS-2 (Matab har)	Pipe Laying Site, Near Uma hospit al	Pipe Layin g Site-1	STP Site -2	Pipe Laying Site -2	STP- 1	(desira ble – permis sible value)
6	Calcium	-	-	-	-	-	-	-	-		-					75-200
7	Sodium	-	-	-	-	-	-	-	-		-					
8	Potassium	-	-	-	-	-	-	-	-		-					
9	Alkalinity	1240	120	80.0	1060	488	252.0	640.0	336.0	620	356.0	420	140.0	160.0	800.0	200- 600
10	Chloride	1453.0	29.0	1567.0	624.0	845.0	101.0	399.0	604.0	691.0	170.0	1344. 0	114.0	144.0	925.0	250- 1000
11	Magnesium	-	-	-	-	-	-	-	-		-					30-100
12	TDS	2440	180	2644	2296	2020	762	2186.0	1480.0	1910	764.0	2680. 0	384.0	664.0	2680. 0	500- 2000
13	TSS	-	-	-	-	-	-	-	-		-					
14	Sulphate	352.0	29	51.0	214	164.0	19.0	84.0	284.0	251.0	58.0	82.0	16.0	30.0	370.0	200- 400
15	Phosphate	<0.15	<0.15	<0.15	<0.15	-	-	-	-		-					
16	Fluoride	8.2	0.38	0.75	2.7	0.52	0.67	1.3	0.52	1	1.2	3.2	0.41	0.39	5.1	1-1.5
17	Oil & Grease	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
18	DO	6.0	5.6	6.2	5.3	5.4	5.4	5.7	5.3	5.4	5.8	5.2	5.7	6.0	5.4	
19	Copper as Cu	-	-	-	-	-	-	-	-		-	-	-	-	-	
20	Phenolic Compound	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00	<0.001	<0.001	<0.00	45-100
21	Nitrate	15.0	28	37	<0.5	4.0	43.0	33.0	86.0	82.0	64.0	36.0	45.0	22.0	8.6	Nil
22	Nitrite	-	-	-	-	-	-	-	-		-					0.3-1.0
23	Iron	0.13	0.26	<0.05	0.07	0.21	0.16	<0.05	0.09	0.06	0.21	0.1	0.06	0.36	0.1	
24	Total Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	5-15
25	Zinc	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.05- 1.5
26	Cadmium as Cd	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00 1	<0.001	<0.001	<0.00 1	0.1-0.3
27	Manganese	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.01-

S. No	Parameter		RSTDI	P/DID/01				RSTDIP/M	KN/01				RSTDIP	/LDN/01		Drinkin g water
		Didwana Town Date of Sampling: 24.08.2021 to 26.08.21					Date of Sam	Makrana [·] pling: 24.0		26.08.21		Dat		Town ling: 26.08	3.21	standa rds
		STP Site	SPS-2	Pipe Laying Site-1	SPS-1, Near Temple	Office near Suncity Hospital	Workmen Colony	STP Site (Boraw ar Road)	SPS-1 (Near Moksh a Dham)	SPS-2 (Matab har)	Pipe Laying Site, Near Uma hospit al	Pipe Layin g Site-1	STP Site -2	Pipe Laying Site -2	STP- 1	desira ble – permis sible value)
																0.05
28	Lead	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.00 5	<0.005	<0.005	<0.00 5	0.01- 0.05
29	Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.00 5	<0.005	<0.005	<0.00 5	10

Soil Quality Results

						•	Jon Quanty	ixesuits							
S. No	Parameter	Unit		RS	TDIP/SHR-AB	R/01		F	RSTDIP/PRT	/01		RST	DIP/SRD/)1	
				(Date of	Abu Road f sampling (10	.04.2021)		(Date of	Pratapgarh sampling (1			Sar (Date of sar	darshaha npling: 14		
			Santpur STP & WTP	Sewer Network Talhati	Water Network Akarabhatt a	Manpur STP	Manpur Workman Colony	Labour Yard, Housing Board	Bhatpura Darwaza	At STP, near Ahinsa Circle	Ramnag ar Sewage Pipeline Zone 3	STP-2 (3.40 MLD) North Campus	Near Meena ka Kawa Guest House Zone 4B	PHED Campus -CWR (2400 KL) & PH at Hanuma ngarh Road	STP-1 (2.30 MLD) South Campus
1	pН	-	7.74	7.82	7.67	7.78	7.64	7.56	7.42	7.58	8.05	8.36	8.31	8.26	8.15
2	Electrical Conductivity (at 25°C)	mS/cm	0.345	0.355	0.367	0.380	0.372	612.00	584.00	517.64	0.289	0342	0.182	0.324	0.285
3	Calcium (as Ca)	mg/Kg	429.58	433.26	420.36	431.80	438.80	9.60	7.50	10.34	126.64	148.63	135.40	144.95	121.37
4	Sodium (as Na)	mg/Kg	86.30	89.91	81.97	86.08	82.93	84.60	92.00	79.30	124.0	119.9	158.9	142.2	138.50
5	Potassium (as K)	Kg/hec.	171.84	156.64	166.12	170.91	177.02	55.86	61.90	48.72	118.94	109.63	148.83	134.95	125.44
6	Organic Carbon	%	0.56	0.59	0.53	0.55	0.57	0.78	0.84	0.64	0.46	0.48	0.52	0.44	0.49
7	Magnesium (as Mg)	mg/Kg	90.71	91.18	98.76	96.33	86.99	5.40	5.20	8.66	94.86	111.13	92.75	115.09	95.03

S. No	Parameter	Unit		RS	TDIP/SHR-AB	R/01		F	RSTDIP/PRT	/01		RST	DIP/SRD/0	01	
				(Date of	Abu Road sampling (10	.04.2021)		(Date of	Pratapgarl sampling (1			Sai (Date of sai	darshaha npling: 14		
			Santpur STP & WTP	Sewer Network Talhati	Water Network Akarabhatt a	Manpur STP	Manpur Workman Colony	Labour Yard, Housing Board	Bhatpura Darwaza	At STP, near Ahinsa Circle	Ramnag ar Sewage Pipeline Zone 3	STP-2 (3.40 MLD) North Campus	Near Meena ka Kawa Guest House Zone 4B	PHED Campus -CWR (2400 KL) & PH at Hanuma ngarh Road	STP-1 (2.30 MLD) South Campus
8	Total Kjeldhal Nitrogen (as TKN)	mg/Kg	253.67	260.18	241.55	254.76	259.84	212.50	256.20	185.70	339.33	373.71	314.70	385.75	355.02
9	Permeability	Cm/sec	BDL(DL 5.0)	BDL(DL 5.0)	BDL(DL 5.0)	BDL(DL 5.0)	BDL(DL 5.0)	12.30	13.80	17.80	1.65	1.70	1.35	1.38	1.67
10	Moisture Content	%	2.49	2.58	2.72	2.48	2.62	15.80	13.50	14.96	3.14	5.16	3.14	6.14	3.34
11	Phosphate (as PO4)	Kg/hec.	15.71	16.21	16.54	14.58	15.42	135.90	142.80	114.50	27.20	26.30	26.33	28.71	25.56
12	Soil texture	-	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
	Sand		-	-	-	-	-	70.00	73.00	78.00	-	-	-	-	-
	Silt		-	-	-	-	-	9.00	7.00	6.00	-	-	-	-	-
	Clay		-	-	-	-	-	21	20.00	16.00	-	-	-	-	-
13	Oil and grease	Mg/kg	BDL(DL 0.5)	BDL(DL 0.5)	BDL(DL 0.5)	BDL(DL 0.5)	BDL(DL 0.5)	BDL	BDL	BDL	9.20	12.58	9.28	11.68	10.88

Soil Quality Results (Continued---2)

S.	Parameter	Unit			RS	TDIP/KTR	/03				RSTDIP	/KMN/02		R	STDIP/MD\	W/03
No					_	Khetri Tow ampling: 2				Da	Kucham te of Sampl	ian Town ing: 25.08.	.2021		landawa T sampling:	own 03.09.2021
			PHED office Old	Ajeet. Govt Hospit al	UP Kosha dhikari Office	JEN Staff Colony	Jai Singh Govt. School	STP Propos ed Site	Sidhi Vinayak Temple	RUIDP Office (Near SPS- 02)	Near Bus Stand (Near STP)	Old CWR, Near PHED Office	Pachwa Road, Near Pump House	SPS-1	CWR Site-1	STP Site-1
1	pH	-	7.62	7.45	7.64	7.73	7.86	7.68	7.59	7.33	8.29	7.89	7.87	8.51	8.60	8.32
2	Electrical Conductivity (at 25°C)	mS/cm	0.128	0.131	0.134	0.126	0.138	0.141	0.124	158.0	7880	202.0	172.0	0.512	0.577	0.465
3	Calcium (as Ca)	mg/Kg	11.46	10.45	13.65	14.31	12.55	10.97	11.78	1200.0	3800	2600.0	1100.0	25.23	43.32	28.90
4	Sodium (as Na)	mg/Kg	3.1	2.8	3.3	2.7	3.0	2.7	3.3	-	-	-	-	31.9	28.8	34.0
5	Potassium (as K)	Kg/hec.	3.9	3.2	3.8	3.5	3.6	3.4	3.8	123.0	2650.0	146.0	132.0	249.61	234.64	77.0
6	Organic Carbon	%	0.25	0.21	0.20	0.24	0.28	0.22	0.26	0.14	0.96	0.33	0.1	0.79	0.76	0.74
7	Magnesium (as Mg)	mg/Kg	41.31	43.21	40.97	42.61	44.56	46.12	47.32	-	-	-	-	10.97	19.70	13.15
8	Total Kjeldhal Nitrogen (as TKN)	mg/Kg	0.01	0.04	0.02	0.04	0.03	0.01	0.04	720.0	1710.0	450.0	570.0	209.61	211.51	197.28
9	Bulk Density	gm/cc	1.65	1.60	1.63	1.58	1.64	1.67	1.62	-	-	-	-			
10	Moisture Content	%	0.36	0.34	0.22	0.30	0.24	0.26	0.32	12.0	37.0	11.0	14.0	2.75	5.25	8.60
11	Phosphate (as PO4)	Kg/hec.	128	11.3	13.4	14.6	12.3	13.4	14.7	467.0	728.0	157.0	459.0	39.9	41.30	43.68
12	Soil texture	-	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy Loam	Clay	Sand	Sand	Sandy Loam	Sandy Loam	Sandy Loam
13	Permeability	Cm/S	-	-	-	-	-	-	-	-	-	-	-	0.0014	0.0009	0.0011

Soil Quality Results (Continued---3)

S.	Parameter	Unit		RS	TDIP/DID/		on Quant	l recurr	s (Contini RS	TDIP/MKN	I/01			RSTDIF	P/LDN/01	
No				Didwana	Town: 01.	09.2021			Ma	akrana To	wn			Ladnı	ı Town	
								Dat	e of Samplii	ng: 28.08.2	2021 to 29.0	8.21	Da	te of Samp	ling: 26.0	8.21
			STP Site	SPS-2	Pipe Laying Site-1	Pipe Laying Site, Jal	SPS-1, Near Temple	Workm en Colony	STP Site (Borawa r Road)	SPS-1 (Jhalar a	SPS-2 (Matabh ar)	Pipe Laying Site, Near	Pipe Laying Site-1	STP-2, Ladnu	Pipe Laying Site-2	STP-1
						Vibhag				Road)		Uma hospit al				
1	pН	-	7.98	8.24	8.30	8.28	8.06	7.62	8.10	8.05	8.16	8.07	8.46	8.41	8.08	8.63
2	Electrical Conductivity (at 25°C)	mS/cm	2670	152.0	252.0	647.0	210.0	110.0	153.0	193.0	164.0	188.0	254.0	158.0	308.0	198.0
3	Calcium (as Ca)	mg/Kg	4700	2750	3700	4100	2000	1000	2100	2700	1250	1200	1650	3050	2800	2750
4	Sodium (as Na)	mg/Kg	1582	27.0	57.0	262.0	29.0	108.0	45.0	112.0	46.0	106.0	37.0	39.0	41.0	114.0
5	Potassium (as K)	Kg/hec.	793.0	411.0	476.0	614.0	602.0	265.0	292.0	532.0	312.0	376.0	532.0	378.0	478.0	369.0
6	Organic Carbon	%	0.41	0.15	0.23	0.22	0.29	0.16	0.18	0.51	0.11	0.19	0.15	0.12	0.25	0.1
7	Magnesium (as Mg)	mg/Kg	420.0	120.0	270.0	240.0	90.0	150.0	60.0	240.0	120.0	180.0	150.0	150.0	120.0	150.0
8	Total Kjeldhal Nitrogen (as TKN)	mg/Kg	314.0	224.0	258.0	269.0	302.0	235.0	246.0	342.0	157.0	179.0	202.0	185.0	291.0	140.0
9	Bulk Density	gm/cc	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Moisture Content	%	19.0	8.6	17.0	16.0	13.0	10.0	8.8	17.0	8.6	12.0	10.0	11.0	14.0	7.9
11	Phosphate (as PO4)	Kg/hec.	279.0	135.0	224.0	232.0	268.0	111.0	118.0	278	144.0	125.0	192.0	134.0	273.0	133.0
12	Soil texture	-	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy
	Sand	%	50.0	85.0	72.0	75.0	78.0	85.0	86.0	46.0	87.0	85.0	89.0	91.0	85.0	92.0
1	Silt	%	16.0	11.0	12.0	10.0	8.0	10.0	9.0	22.0	9.0	8.0	6.0	5.0	8.0	5.0
	Clay	%	34.0	4.0	16.0	15.0	14.0	5.0	5.0	32.0	4.0	7.0	5.0	4.0	7.0	3.0
13	Oil & Grease	Mg/kg	6.6	<5.0	5.2	5.3	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
14	Permeability	cm/S	1.1	4.2	3.5	3.6	3.8	4.2	4.3	1.2	4.7	4.1	4.4	4.8	4.5	4.9

04 05 11

APPENDIX 11: LETTER FROM PMU TO ESTABLISH GRM IN ALL PIUS



Government of Rajasthan Office of Project Director

Rajasthan Urban Infrastructure Development Project

AVS Building, Jawahar Circle, JLN Marg, Jaipur - 302017

Tel No.: 0141-2721966, Fax No.: 0141-2721919, email : mail@ruidp.gov.in, web site : www.ruidp.

F3(301)(50)RUIDP/PMU/PH-IV/WS/GENERAL/ 1282

Office - Order

Subject:- Grievance Redress Mechanism for Rajasthan Secondary Town Development

Program (RSTDIP) - RUIDP Phase IV

Reference: - Agreed Resettlement & Environmental framework -3183 IND (RUIDP Phi

https://www.adb.org/projects/42267-026/main#project-documents

It is directed that Grievance Mechanism of RUIDP Phase III will be replicated in RUIDP Phase accordingly, PIU will maintain/ ensure proper records of safeguard related Grievances received in their town. I ensure that the safeguard related Grievances received are resolved as per Grievance Redress Mechanism.

prescribed in RP which is summarized as under (for ready reference):-

Methodology of multi-tier GRM	Responsibility/Action to be taken	Time Frame	Record Keeping
1st level: Grievances that are immediate and urgent in the perception of the complainant, the contractor, and supervision personnel from PIU will provide the most easily accessible or first level of contact for quick resolution of grievances	SE/EE PIU will resolve issues in consultation with supervision personnel Contractor	PIU will resolve issues within 3 days of receipt of a complaint/ grievance.	The grievance register will by all field agencies implementation of EMP an
2nd level: All grievances that cannot be redressed within 3 days at field will be referred to PMU through PO Social/Environment by PIU.	Project Officers (Environment/Social) PMU in consultation with PMU. PlUand the Contractor will resolve the issued referred.	PMU will resolve issues within 7 days of receipt of a complaint/ grievance	PIU will keep records of referred to PMU and will of outcome of each grievan the Grievance Register.
All the grievances that are not addressed by PMU within 7 days, will be brought to the notice of Grievance Redress Committee (GRC). The City Level Committee (CLC), which will be established in every project town will act as GRC	SE/EE PIU will coordinate with PO Social PO Environment or other official of PMUand will prepare agenda for the GRC meeting accordingly and ensure keeping the same in GRC.	The GRC will resolve the grievance within 15 days of receiving the complaint	PIU will be responsible to the process of redre grievance and document to the process of redress of red redress of redres
4th level: Very major issues that are beyond the jurisdictional authority of the CLC or those that have the potential to cause social conflicts or environmental damage or those that remain unresolved at PMU/CLC level, will be referred to the Empowered Committee (EC). Please note that an aggrieved person s	SE/EE PIU will assist PMU officials to prepare agenda for the Empowered committee meeting		SE/EE PIU will keep Empowered committee n ensure documentation of

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

PIUs will be responsible to ensure redressal of grievances as per GRM procedures summarized above and complainant.

Contractor's will keep information board depicting Grievance registration numbers at each working registration form and will maintain Grievance Registers (refer annexure 1 &2).



Government of Rajasthan



Office of Project Director

Rajasthan Urban Infrastructure Development Project(Unit of RUDSICO)

AVS Building, Jawahar Circle, JLN Marg, Jaipur - 302017

Tel No.: 0141-2721966, Fax No.: 0141-2721919, email: mailruidp@gmail.com, mail.ruidp@rajasthan.gov.in web site : -https://urban.rajasthan.gov.in/pudp No. F3 (301) (60)/RUIDP/PMU/PH-IV/ ADB S. Safeguard /Gen adm /2020-21/11364 Date: 18/15_/2-62-6

Abu Road, Sirohi, Ratangarii, Abu Road, Sirohi, Sardarsahar, Suprintending Egnleer/Executive Engineer Ratangarh, Fatehpur, Laxmangarh, Kuchaman, Ladnu, Makrana, Didwana, Khetri, Mandawa, Pratapgarh and Banswara.

Subject:- Nomination of Safeguard and Safety Officer (SSO) of each PlUs for proper monitoring of Environmental and Resettlement issues and addressing of safeguard related Grievances through Grievance Redress Mechanism.

Reference: -Agrood Environmental Resettlement framework and EARF of RSTDSP.

All PIUs are directed to issue an office order to nominate one engineer from PIU to works as Safeguard and Safety Officer (SSO). It will be additional responsibility of Safeguard and Safety Officer (SSO), PIU to ensure day to day monitoring of implementation of Environmental Management and Monitoring Plan (EMMP) provisions, implementation & Monitoring Resettlement Plan (RP) and ADB Safeguard Policy& Safety compliance in concern town

Further it is directed that all the PIU should maintain proper separate records of safeguard related. Grievances received in their town and ensure that the safeguard related Grievances received are resolved as per Grievance Redress Mechanism (GRM) prescribed in EARF/RF which is summarized as under (for ready reference)

GRM	Responsibility/Action to be taken	Time Frame	Record Keeping
Sat liveti. Orievances that are immediate and urgent in the perception of the complainant, the	Et: PIU will resolve issues in consultation with supervision personnel (ACM), Safeguard and Safety Officer (SSO) PIU.	PRJ witi 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.
contractor, and supervision personnel from PtU and CMSC on-site will provide the most easily accessible or first level of contact for puick resolution of	Contractor, and Safeguard staff of CMSC. It required, city level monitoring committee (CLMC) will be involved in resolution of grievances at the 1st level,		Safeguard and Safety Officer of PIUs, Safeguard Support of CMSC will record Grievances timely in the format enclosed as Annexure 1,
griovances			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
SUP INTO			form public forwarded to head of PIU or Safeguard and Safety Officer (SSO) for resolve in time and
	ment and Capacity Building		head of PIU or Safeguard and Safety Officer (SSO)
Project Monage			head of PIU or Safeguard and Safety Officer (SSO) for resolve in time and provide summarized information as and when
Project Manage Consultancy (FI Roselved or 21_f12_2eee TL	Inward No		head of PIU or Safeguard and Safety Officer (SSO) for resolve in time and provide summarized information as and when require The grievance register will
Project Manage Consultancy (*) Roselyed on _21 [12] 2020	Inward No.		head of PIU or Safeguard and Safety Officer (SSO) for resolve in time and provide summarized information as and when require. The grievance register will be endorsed by all field agencies involved in

Methodology of multi-tier GRM	Responsibility/Action to be taken	Time Frame	Record Keeping
			RP.
2nd level; All grievances that cannot be redressed within 7 days at field/PIU level will be brought to the notice of Zonal PIU headed by Additional Chief Engineer (ACII).	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 compliantigrievance	Environmental and Social Safeguards Personal of CMSC will keep all the records referred to zone PIU and after compilation all the details will be submitted to PMU.
3rd level:	Project Officer	PMU will resolve the	Safeguard Support of
All the prievances that are not addressed by Zonal PIU within 7 days of receipt will be brought to the notice of the PMU.	(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);	grievance within 15 days of receipt of grievance.	Safeguard Support of PMCBC will keep all the records referred to PMU.
4th levet: 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 aggreeved 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 Offiner (SSO) will monitor the entire process and all decisions taken.

by the PiU, zonal ufficers, PMU and GRC and will be communicated to the APs by Safeguard Support of CMSC.

It is also directed that names and contact number of the concerned Safeguard and Safety

Officer (SSO) of PIU, contractors, safeguard support staff of CMSC will be posted at all construction sites at visible locations.

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

Chief Engineer, RUIDP

No. F3 (301) (60)/RUIDP/PMU/PH-IV/ Social Safeguard/General Adm/2020-21/ Date: 1/3 1/2-12-0 acc Copy to the following for information and necessary action please:- 18 368 - 70

- 1. ACE-I &II Phase-IV, RUIDP zone Jaipur & Jodhpur
- 2. TL, PMCBC, Phase-IV, RUIDP
- TL CMSC-01/02 Phase-IV, RUIDP zone Jaipur & Jodhpur

(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 REPORTING PERIOD

Town: Abu Road

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

Duration: 1st July to 30th September, 2021

Month	Nos. of	Nos. of Incident	Nos. of Near miss	Nos. of first aid
	Accident cases	Cases	cases	cases
April 2021	0	0	0	0
May 2021	0	0	0	0
June 2021	0	0	0	0
July, 2021	0	0	0	0
August, 2021	0	0	0	0
September, 2021	0	0	0	1

Details of first aid cases-

S. No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	Sep. 2021	01	Cut injury	First aid given and instructed worker to use hand gloves

B. Town: Sirohi

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

Duration: 1st July to 30th September, 2021

Month	Nos. of	Nos. of Incident	Nos. of Near miss	Nos. of first aid
	Accident cases	Cases	cases	cases
April 2021	0	0	0	0
May 2021	0	0	0	0
June 2021	0	0	0	0
July, 2021	0	0	0	0
August, 2021	0	0	0	0
September, 2021	0	0	0	0

C. Town: Sardarshahar

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

Duration: 1st July to 30th September, 2021

Month	Nos. of	Nos. of Incident	Nos. of Near miss	Nos. of first aid
	Accident cases	Cases	cases	cases
April 2021	0	0	0	0
May 2021	0	0	0	0
June 2021	0	0	0	0
July, 2021	0	0	0	0
August, 2021	0	0	0	0
September, 2021	0	0	0	0

D. Town: Fatehpur

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

Duration: 1st July to 30th September, 2021

Month	Nos. of	Nos. of Incident	Nos. of Near miss	Nos. of first aid
	Accident cases	Cases	cases	cases
April 2021	0	0	0	0
May 2021	0	0	0	0
June 2021	0	0	0	0
July, 2021	0	0	0	0
August, 2021	0	0	0	0
September, 2021	0	0	0	0

E. Town: Ratangarh

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

Duration: 1st July to 30th September, 2021

Month	Nos. of	Nos. of Incident	Nos. of Near miss	Nos. of first aid
	Accident cases	Cases	cases	cases
April 2021	0	0	0	0
May 2021	0	0	0	0
June 2021	0	0	0	0
July, 2021	0	0	0	0
August, 2021	0	0	0	0
September, 2021	0	0	0	0

F. Town: Laxmangarh

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

Duration: 1st July to 30th September, 2021

Month	Nos. of	Nos. of Incident	Nos. of Near miss	Nos. of first aid
	Accident cases	Cases	cases	cases
April 2021	0	0	0	0
May 2021	0	0	0	0
June 2021	0	0	0	0
July, 2021	0	0	0	0
August, 2021	0	0	0	0
September, 2021	0	0	0	0

G. Town: Pratapgarh

Contractor: Larsen & Toubro Construction Limited (L&T) Duration: 1st July to 30th September, 2021

Month	Nos. of	Nos. of Incident	Nos. of Near miss	Nos. of first aid
	Accident cases	Cases	cases	cases
April 2021	0	0	0	0
May 2021	0	0	0	0
June 2021	0	0	0	0
July, 2021	0	0	0	0
August, 2021	0	0	0	0
September, 2021	0	0	0	0

H. Town: Banswara

Contractor: BIPL-SC-HP Joint Venture Duration: 1st July to 30th September, 2021

Month	Nos. of	Nos. of Incident	Nos. of Near miss	Nos. of first aid
	Accident cases	Cases	cases	cases
July, 2021	0	0	0	0
August, 2021	0	0	0	0
September, 2021	0	0	0	0

I. Town: Kuchaman

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

Duration: 1st July to 30th September, 2021

Month	Nos. of	Nos. of Incident	Nos. of Near miss	Nos. of first aid
	Accident cases	Cases	cases	cases
July, 2021	0	0	0	0
August, 2021	0	0	0	0
September, 2021	0	0	0	0

J. Town: Ladnu

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

Duration: 1st July to 30th September, 2021

Month	Nos. of	Nos. of Incident	Nos. of Near miss	Nos. of first aid
	Accident cases	Cases	cases	cases
July, 2021	0	0	0	0
August, 2021	0	0	0	0
September, 2021	0	0	0	0

K. Town: Makrana

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

Duration: 1st July to 30th September, 2021

Month	Nos. of	Nos. of Incident	Nos. of Near miss	Nos. of first aid
	Accident cases	Cases	cases	cases
July, 2021	0	0	0	0
August, 2021	0	0	0	0
September, 2021	0	0	0	1

L. Town: Didwana

Contractor: Larsen & Toubro Construction Limited (L&T) Duration: 1st July to 30th September, 2021

Month		Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
July, 2021	0	0	0	0
August, 2021	0	0	0	0
September, 2021	0	0	0	1

M. Town: Khetri

Contractor: M/s Lahoty LNA (JV), Jaipur Duration: 1st July to 30th September, 2021

Month	Nos. of	Nos. of Incident	Nos. of Near miss	Nos. of first aid
	Accident cases	Cases	cases	cases
July, 2021	0	0	0	0
August, 2021	0	0	2	0
September, 2021	0	0	1	1

N. Town: Mandawa

Contractor: LNA R&B JV

Duration: 1st July to 30th September, 2021

Month	Nos. of	Nos. of Incident	Nos. of Near miss	Nos. of first aid
	Accident cases	Cases	cases	cases
July, 2021	0	0	0	0
August, 2021	0	0	0	0
September, 2021	0	0	0	0

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