



Environmental Monitoring Report

PUBLIC

Semestral Report: October 2023 – March 2024
December 2024

India: Rajasthan Secondary Towns Development Sector Project-Additional Financing

Part 1 of 4: Main Report (Pages 1-169) and Appendices 1 - 2

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

Asian Development Bank

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Comments Compliance Matrix of ADB observations on SEMR (October 2023 to March 2024) Tranche II – Additional Financing

S. No.	Observations by ADB on SEMR	Compliance	ADB Observation reference	Remarks
1.	Please check all reference of tables, figures, and appendix in main report and relevant details. Without giving reference in main section, the supporting appendix shouldn't appear.	Tables, appendices and figures are checked and all are referred in main section of the report	List of Appendices	Complied
2.	Please talk about all sub-projects, (hope, there are 22 sub-projects) under additional financing. Further, please talk about the progress for 18 sub-projects and under DPR/bidding stage for remaining 4 sub-projects under the AF loan.	There are 23 sub-projects under additional financing and details about other 5 subprojects is added and desired corrections are made accordingly in all places in SEMR.	Para no. 6 of Executive Summary Table 3, 10&11	Complied
3.	Check numbering.... how it will start from sr. no. V Check and update, here 8 plus 11 would be 19 sub-projects.	Corrections made	Para no. 3 of Introduction	Complied
4.	Check formatting (para numbering throughout the report).	Formatting and para numbering is thoroughly checked	Para no. 4 & 16	Complied
5.	Hope, the progress/scope of works indicated here in the EMR are in line with cleared IEE reports for all sub-projects.	Scope of all components is as per IEE. For road cutting, road restoration and balance road restoration, actual progress is mentioned up to reporting period as per Physical progress mentioned in P1 format submitted by PIU.	Table 4	Complied
6.	Define the stage? When the requisite application submitted, joint verification done or what is the status??	Status of forest clearance permission is added in detail in table 6.	Table 6	Complied
7.	Summarize in one line, whether there are any grievance pertaining to environmental safeguards, till end of reporting period?? If yes, how these were resolved or status of the same.	There were no grievance pertaining environmental safeguard till the end of reporting period.	Para no. 42	Complied

Semi-Annual Environmental Monitoring Report

SFG Log: 6397

**PROJECT NO: 42267-034
Loan No.: 4325-IND**

India: Rajasthan Secondary Towns Development Sector Project (RSTDSP)

Reporting Period: October 2023 to March 2024

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

{Erstwhile Rajasthan Urban Infrastructure Development Program (RUIDP)}

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

ABBREVIATIONS

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

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Executive Summary

1. ADB approved a loan for the Rajasthan Secondary Towns Development Sector Project (RSTDSP, Loan 3972: IND) in September 2020. This is currently under implementation and will close by May 2028. The proposed RSDSP additional financing project aims to expand and enhance climate-resilient urban infrastructure and services in additional 16 small and medium and/or heritage towns in Rajasthan by improving (i) water supply in at least seven ULBs, (ii) sanitation systems in at least seven ULBs, and (iii) other urban assets that improve climate resilience and enhance nature/built heritage in at least eight ULBs, including lake and water parks rehabilitation, drainage systems construction, public space and/or buildings reconstruction to enhance climate resilience and/or heritage-sensitive urban development. The AF project is aligned with the following impacts: (i) access to potable, affordable, reliable, equitable, environmentally sustainable drinking water supply in all urban areas of Rajasthan improved, (ii) health status of urban population, especially the poor and under-privileged improved, and (iii) productivity, livability and prosperity for the citizens in Rajasthan cities and towns enhanced. Reflecting the additional measures to enhance climate resilience and heritage-sensitive urban development of the project, impact statement (iii) was added; the outcome statement is modified as quality, reliability, equity, and sustainability of urban assets and services in project towns of Rajasthan improved.

2. The additional financing (the project) will expand the improved access to WSS services in at least ten urban local bodies (ULBs), benefiting 1.2 million people. Important value addition of the proposed project to the ongoing project is that it will provide innovative solutions to address climate change to respond to the growing climate risks and vulnerability and also to improve livability and prosperity through enhancing natural and/or built heritage at least ten ULBs in Rajasthan, benefiting 1.0 million people. The overall project is aligned with the following impacts: (i) access to potable, affordable, reliable, equitable, environmentally sustainable drinking water supply in all urban areas of Rajasthan improved, (ii) health status of urban population, especially the poor and under-privileged improved, and (iii) productivity, livability and prosperity for the citizens in Rajasthan cities and towns enhanced. Reflecting the additional measures to enhance climate resilience and heritage-sensitive urban development of the project, impact statement (iii) was added; the outcome statement is modified as quality, reliability, equity, and sustainability of urban assets and services in project towns of Rajasthan improved; and additional output was also added, resulting in four outputs.

- (i) **Output 1: Water supply system in at least additional six project towns improved.** (i) At least 1,3000 km of water supply pipelines will be commissioned through a district-metered area approach for effective nonrevenue water (NRW) management, (ii) at least 79,000 households will be connected to an improved water supply system (including at least 95% below poverty level (BPL) households) with 100% functional meters allowing for the introduction of volumetric billing, (iii) three new water treatment plants (WTP) will be commissioned with total capacity of at least 24 million liters per day (MLD).
- (ii) **Output 2: Sanitation system in additional eight project towns developed or improved.** (i) At least 500 km of sewers will be constructed, (ii) seven sewer treatment plants (STP) with co-treatment of wastewater and fecal sludge and with a total capacity of at least 30 MLD will be commissioned and one existing STP with 10 MLD capacity will be upgraded to meet current effluent standards, and (iii) at least 54,000 new household connections (including at least 95% BPL households) to sewer system will be installed.

- (iii) **Output 3: Urban assets to enhance climate resilience and heritage living in 11 project towns developed or improved.** (i) At least 50 km of drainage networks will be constructed in five ULBs, (ii) at least five either *kunds* or *baories* rehabilitated and/or reconstructed in three ULBs that were heritage structure built for rainwater harvesting and reuse, but currently are not properly functioning, (iii) six wetland/water parks rehabilitated in one ULB to enhance water retention and storage capacity and/or to improve people's well-being, both residents and visitors, and (iv) at least four heritage structures are refurbished and at least 30 refurbished in five ULBs to improve living environment and attract more tourists.
- (iv) **Output 4: Institutional and human capacities strengthened for service improvements, gender equality and sustainability.**

3. The executing and implementing agencies will remain unchanged. GOR's Local Self Government Department (LSGD) is executing agency and the Rajasthan Urban Drinking Water, Sewerage and Infrastructure Corporation (RUDSICO) is implementing agency.

4. 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.

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

6. There are 23 subprojects under additional financing and up to March 2024, contracts for 18 subproject towns have been awarded (Dungarpur & Sagwara under single contract as package, no. RSTDSP/DNG-SGWS-WW/01, Bundi, Nathdwara & Nimbahera under single contract as package, no. RSTDSP/3 Towns/WS-WW/01, Nokha – package no. RSTDSP/NKH/01, Jodhpur (Sewerage) – RSTDSP/JOD/01, Jodhpur (Drainage) – RSTDSP/JOD/02, Bharatpur (Sewerage) - RSTDSP/BHR-WW/01, Bundi, Bhawani Mandi, Nawalgarh & Ratargarh (Drainage) under single contract as package no. RSTDSP/TOWNS/DR/01, Barmer & Balotra under single Package no. – RSTDSP/BAR-BLT/WS-WW/01, Bharatpur (City Beautification) RSTDSP/BHR/CTYBF/01, Jaisalmer (City Beautification) RSTDSP/JSL/CTYBF/01, Sagwara (City Beautification) RSTDSP/SGR/CTYBF/01 and Work has started in all 18 towns (Dungarpur, Sagwara Bundi, Nathdwara, Nimbahera, Nokha, Jodhpur (Sewerage), Jodhpur (Drainage), Bharatpur (Sewerage), Bundi, Bhawani Mandi, Nawalgarh & Ratargarh (Drainage) Barmer, Balotra, Bharatpur Jaisalmer & Sagwara (City Beautification) sub project towns. Three subprojects, Namely Bundi city beautification, Pushkar city beautification and Mount Abu city beautification are under bidding process, while for two subprojects, namely,

Nathdwara city beautification and Nawalgarh city beautification are under DPR finalization, after which bidding will be initiated.

7. IEEs of all 18 project towns have been approved by ADB. IEEs for several towns were further updated due to amendments in project scope or location and submitted to ADB, approved by ADB and uploaded on ADB and RUDSICO_EAP portals.

8. During this reporting period, orientations for environmental safeguard requirements were done in 6 towns, namely Barmer, Balotra, Ratangarh, Bundi, Jodhpur (Drainage) & Jodhpur (Sewerage) by CMSC-1&2 Environmental Safeguard Professional and Safeguard Support staff. Participants in these orientation programs were PIU, contractors staff, CMSC engineers and supervisors. Onsite trainings were also conducted in Barmer, Balotra, Ratangarh, Bundi, Jodhpur (Drainage) & Jodhpur (Sewerage) towns at different work sites to contractors' site supervisors, labours and operators.

9. Contractors have submitted the Site-Specific Environment Management Plans (SEMP) in pre-construction phase of each sub project towns, which are under review by PIU & PMU and will be followed in construction works. These SEMP's also include Solid Waste and Spoil Management Plan, Traffic Management Plan, Health and Safety Plans, Workers camps plans, COVID-19 prevention and control plan, Asbestos Management Plan etc.

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

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

12. In compliance to country's legal requirements for STPs & WTPs; Consent to Establish (CTE) is being obtained from Rajasthan State Pollution Control Board (RSPCB) in all project towns. There are total 7 STPs and 3 WTPs proposed for new construction in all 18 towns (Trenche-II Subprojects) and CTE for 3 towns (Bharatpur 9.4 MLD STP, Bundi 6.5 MLD STP & Nimbahera 5.74 MLD WTP) are obtained till this reporting period and CTO will be obtained prior to commissioning of plants. Up to March 2024, total 7 applications for CTEs for STPs and WTPs were submitted out of which 3 CTEs have been issued by RSPCB. There are existing 1 STP proposed for upgradation which will require consent to establish and consent to operate. CTE & CTO has been obtained from Rajasthan State Pollution Control Board for 1 STP proposed for upgradation.

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

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

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

1. INTRODUCTION

1. **Project Description:** Rajasthan Secondary Towns Development Sector Project (RSTDSP), the fourth phase of investment projects financed by Asian Development Bank (ADB) and implemented by the Rajasthan Urban Drinking Water Sewerage and Infrastructure Corporation Limited- External Aided Projects (RUDSICO-EAP)), previously known as Rajasthan Urban Infrastructure Development Project (RUIDP).

2. Sector Project (RSTDSP, Loan 3972: IND) from its regular ordinary capital resources on 25 September 2020 and became effective on 4 January 2021. The closing date of the current project is 31 May 2028. This project is on track and has performed well consistently since the first quarter of 2021. Under this project, water supply systems are being improved in eight urban local body (ULB) towns (Output 1), and sanitation systems in 13 ULBs (Output 2). During the implementation, an additional 13 ULBs were added to the project for fecal sludge and septage management system development. Under Output 3, capacity building and training activities on sustainable and resilient water supply and sanitation (WSS) operations, hygiene, gender equality and social inclusion conducted.

3. The additional financing (the project) will expand the improved access to WSS services in at least ten urban local bodies (ULBs), benefiting 1.2 million people. Important value addition of the proposed project to the ongoing project is that it will provide innovative solutions to address climate change to respond to the growing climate risks and vulnerability and also to improve liability and prosperity through enhancing natural and/or built heritage at least ten ULBs in Rajasthan, benefiting 1.0 million people. The overall project is aligned with the following impacts: (i) access to potable, affordable, reliable, equitable, environmentally sustainable drinking water supply in all urban areas of Rajasthan improved, (ii) health status of urban population, especially the poor and under-privileged improved, and (iii) productivity, liability and prosperity for the citizens in Rajasthan cities and towns enhanced. Reflecting the additional measures to enhance climate resilience and heritage-sensitive urban development of the project, impact statement was added; the outcome statement is modified as quality, reliability, equity, and sustainability of urban assets and services in project towns of Rajasthan improved; and additional output was also added, resulting in four outputs.

Output 1: Resilient water supply systems developed or improved. By 2028, the project will (i) At least 1,300 km of water supply pipelines will be commissioned through a district-metered area approach for effective non-revenue water (NRW) management, (ii) at least 79,000 households will be connected to an improved water supply system, including at least 95% below poverty line households, with 100% functional meters allowing for the introduction of volumetric billing, (iii) three new water treatment plants (WTPs) will be commissioned with a total capacity of at least 24 million liters per day (mld).

Output 2: Resilient and inclusive sanitation systems developed or improved. By 2028, (i) at least 500 km of sewers will be constructed; (ii) seven sewage treatment plants (STPs) with co-treatment of wastewater and fecal sludge and with a total capacity of at least 30 mld

will be commissioned and one existing STP with 10 mld capacity will be upgraded to meet current effluent standards; and (iii) at least 54,000 new household connections (including at least 95% below poverty line households) to the sewer system will be installed.

Output 3: Urban assets to enhance climate resilience and heritage living developed or improved. By 2028, (i) at least 50 km of drainage networks will be constructed in five ULBs; (ii) at least five either kunds or baories rehabilitated and/or reconstructed in three ULBs that were heritage structures built for drainage, rainwater harvesting, and reuse, but currently are not properly functioning; (iii) five water parks rehabilitated in one ULB to enhance water retention and storage capacity and/or to improve people's well-being, both residents and visitors; and (iv) at least four heritage structures are refurbished in five ULBs to improve the living environment and attract more tourists.

Output 4: Institutional and human capacities strengthened for sustainable service delivery, gender equality, and improved public health.

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 18 project towns (with 11 packages), contract for all 18 sub-projects are awarded and civil work are undergoing in all towns. Necessary Orientation of the PIU, Consultants and Contractor staff is done by Social and environmental experts of PMCBC (assisted by safeguard support staff) and regular monitoring is being conducted by PIU and CMSC team at site. However, to facilitate day to day monitoring, all PIUs have one nominated engineer as Safeguard and Safety Officer (SSO), who is responsible to coordinate for Safeguard activities in their respective towns. SSO, PIU ensures day to day monitoring of implementation and coordinates with PIU, CMSC/PMCBC Social/ Environmental Expert and Contractor for effective safeguard implementation. SSO is also responsible at town level to ensure that all the Grievances received are resolved as per Grievance Redress Mechanism (GRM) prescribed in IEE/RP & EARF/RF. Contractors of each town have also deputed one EHS officer to implement the mitigation measures as per EHS requirements in their respective towns.

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

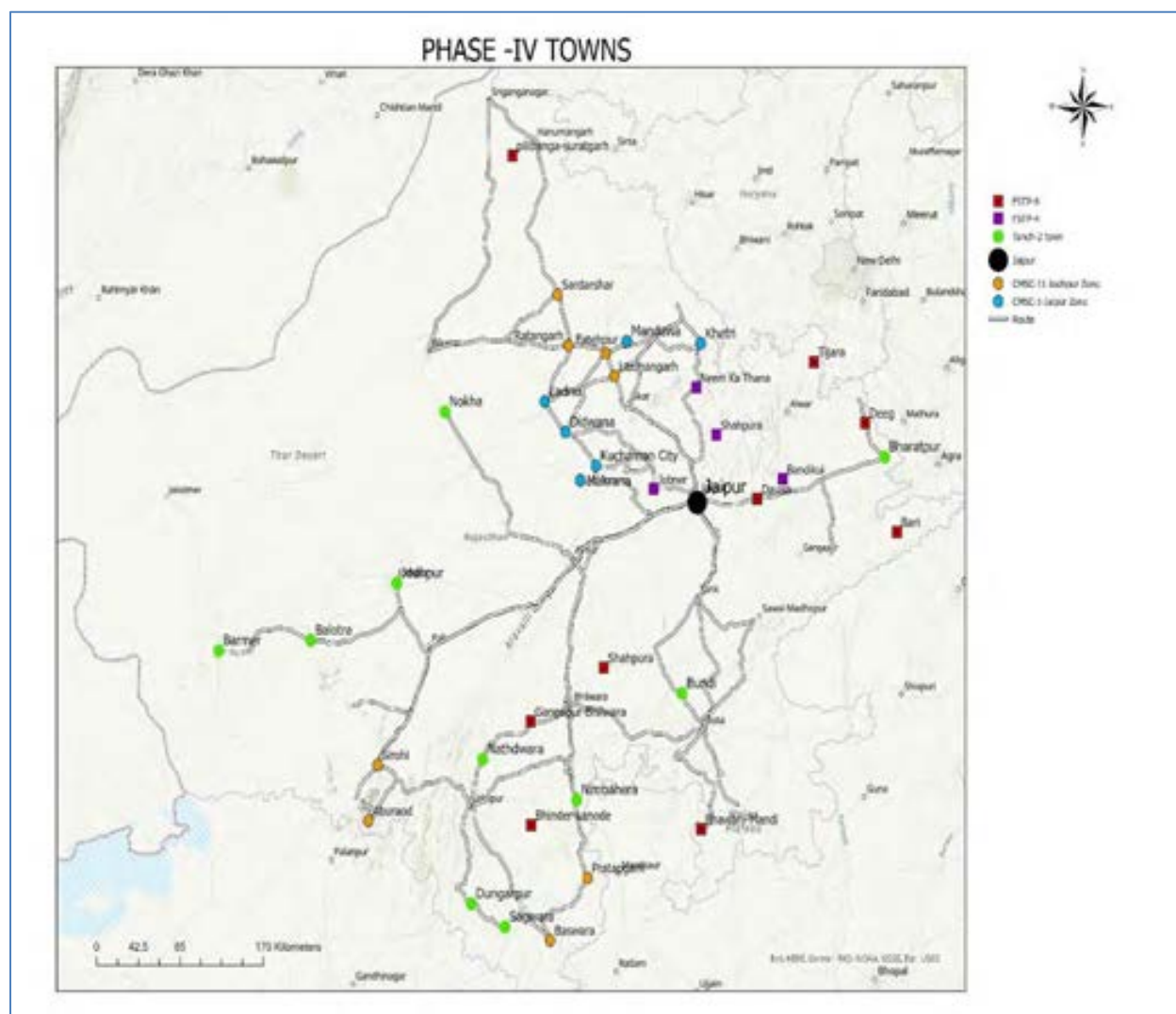
Table -1: Details of personnel responsible for environmental monitoring**A. PMU, PMCBC, CMSC and PIUs level**

Name of Official	Location	Designation	Contact Details
PMU & PMCBC at Jaipur			
Ms. Poornima Mahlawat	PMU, Jaipur	Project Officer (Env)	7665112361
Mr. Ankit Kumar Chaudhary	PMU, Jaipur	Assist.Project Officer (Env)	9460036504
Dr. Surendra Nagdali	PMCBC, Jaipur	Environment Safeguard Specialist, PMCBC	Mob. -7678358158 Email: snagdali@yahoo.com
Mr. Mohammada Saakira	PMCBC, Jaipur	Safeguard Support-Environment -1, PMCBC	Mobile: 8209120205 Email: msaakira88@gmail.com
PIU Zonal Offices- Jodhpur and Jaipur			
Dr. Mahavir Prasad Saini	CMSC-2 Jodhpur	Environmental Safeguard Professional, CMSC-2	Mob. -9509557249 Email: enviro.cmssc2@gmail.com
Mr. Vardan Srivastava	CMSC-1, Jaipur	Environmental Safeguard Professional, CMSC-1	Mob. – 9410085379 Email: env.cmssc01@gmail.com
Mr. Mani Sharma	CMSC-1, Jaipur	Environmental Safeguard Support, CMSC-1	Mob- 8360043214
Mr. Mayank Vyas	CMSC-2 Jodhpur	Environmental Safeguard Support, CMSC-2	Mob- 88905 64911
PIUs and CMSCs at towns			
Mr. Deepak Mandan.	PIU, Nokha	SSO, PIU, Nokha	9828117635
Mr. Nemi Chand Gehlot	PIU, Jodhpur	SSO, PIU, Jodhpur	9413145233
Mr. Anil Patidar	PIU, Dungarpur	SSO, PIU, Dungarpur	8094920004
Mr. Anil Patidar	PIU, Sagwara	SSO, PIU, Sagwara	8094920004
Mr. Manish Arora	PIU, Nathdwara	SSO, PIU, Nathdwara	9783905220
Mr. Kailash Deval	PIU, Nimbahera	SSO, PIU, Nimbahera	9352620832
Mr Manish Arora	PIU, Bundi	SSO, PIU, Bundi	9783905220
Mr.O.P. Bairwa	PIU, Ratangarh	SSO, PIU, Ratangarh	8949818985
Mr. RD Garg	PIU, Nawalgarh	SSO, PIU, Nawalgarh	8949994508
Mr.O.P. Bairwa	PIU, Bhawanimandi	SSO, PIU, Bhawanimandi	8949818985
Mr. Lokendra Jain	PIU, Bharatpur	SSO, PIU, Bharatpur	8764162055
Mr. Shashikant Sharma	PIU, Barmer	SSO, PIU, Barmer	9460202989
Mr. N.S. Chaudhary	PIU, Balotra	SSO, PIU, Balotra	9414085336
Mr. Purushottam	PIU, Jaisalmer	SSO, PIU, Jaisalmer	9887646328
Mr. Ugrasen Kumar	Ratangarh	Safeguard Support Environment CMSC-2	8687429952
Mr. Ram Singh Yadav	Dungarpur/Sagwara	Environmental Safeguard Support, CMSC-2	9950755998
Mr.Naresh Mahawar	PIU, Bundi town	Gender, Social & Environmental Safeguards Support Staff, CMSC-I	9602574739

B. Contractors' EHS personals

S No.	Town	Name of EHS Engineer	Contract Details	Contractors' Firm
CMSC-II Towns				
1.	Nokha (WS works)	Mr Yogendra	9413119554	M/s MCPL - PRGL JV
2.	Jodhpur (WW works)	Mr Jai Prakash	9785846090	M/s Eagle Infra India Limited
3.	Jodhpur (Drainage works)	Mr Sailesh Chaudahry	94623 81580	M/s SMCC-AG JV
4.	Dungarpur (WS&WW works)	Mr Pankaj Saini	9351799436	M/s Eagle Infra India Limited
5.	Sagwara (WS&WW works)	Mr Rajan Khan	9576532663	M/s Eagle Infra India Limited
6.	Nathdwara (WS works)	Mr. Ashutosh Kumar	8861200971	M/s Khilari Infra structure Pvt Ltd.
7.	Nimbahera (WS works)	Mr Dev Singh	7691027212	M/s Khilari Infra structure Pvt Ltd.
8.	Ratangarh (Drainage works)	Mr. Bilal	9610365240	M/s RGI - RBI PL JV
9.	Barmer (WWW works)	Yet to be mobilized		M/s GCKC Projects & works Pvt Ltd
10.	Balotra(WS&WWworks)	Yet to be mobilized		M/s GCKC Projects & works Pvt Ltd
11.	Jaisalmer (City Beautification works)	Mr. Veni Dan Charan	9892895346	M/s D.B. infratech
12.	Sagwara (City Beautification works)	Mr. Veni Dan Charan	9892895346	M/s D.B. infratech
CMSC-I Towns				
13.	Bundi (WS& WW works)	Mr. Rahul Saini	8059474713	M/s Khilari Infra structure Pvt Ltd.
14.	Bundi (Drainage works)	Mr. Ushman Ganni	8279294388	M/s RGI - RBI PL JV
15.	Bharatpur (WW works)	Mr. Shyampal Rajput	8859644600	M/s SMCC-AG JV
16.	Bharatpur (City Beautification works)	Mr. Yogendra Singh	8005642254	M/s Khandelwal Construction
17.	Nawalgarh (Drainage works)	Mr. Hari Mohan	7791912558	M/s RGI - RBI PL JV
18.	Bhawani Mandi (Drainage works)	Mr. Shyampal Rajput	8859644600	M/s RGI - RBI PL JV

7. **Description of sub-projects:** Under RUIDP Phase-IV, Trench-II, there are 18 subproject towns (Dungarpur, Sagwara Bundi, Nathdwara, Nimbahera, Nokha, Jodhpur (Wastewater), Jodhpur (Drainage), Bharatpur (Wastewater), Bundi, Bhawani Mandi, Nawalgarh & Ratangarh (Drainage) Barmer, Balotra, Bharatpur Jaisalmer & Sagwara (City Beautification) sub project towns) are selected under this loan. There are total 11 package in 18 project towns under Trench-II. Location of all project towns in Rajasthan State map is shown in Figure 1.

Figure 1: Sub-project Locations in Rajasthan State Map

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

Table -2: Description of sub-projects under RSTDSP – AF (Project no. 42267-034)

S No.	Town	Package No.	Name of Contractor	NTP Date	Contract Cost (INR)	Contract Cost (US\$) *	Description of works
1	Bharatpur Wastewater Subproject	RSTDSP/BHR/WW/01	M/s SMCC – AG Jv	07.02.2023	118,509,973.00	42715751.47	Construction of Sewer Network with House sewer connections; Construction of Sewage Treatment Plant & Sewage Pumping Station; Allied works and operation services of the system for 10 Years
2	Bundi Water supply & Wastewater Subproject	Package No.: RSTDSP/3 Towns/WS-WW/01 Lot No.: RSTDSP/BUN/01	M/s Khilari Infra structure Pvt Ltd.	05.12.2022	474,750,974.49	6833141.403	Construction works of water Supply production; Distribution Network improvements with house services connections for non-revenue water reduction and continuous water supply and providing Sewer network with house sewer connections; Construction of Sewage Treatment Plant and all allied works and operation services of the entire system for 10 years
3	Bundi Drainage Subproject	Package No.: RSTDSP/4 Towns/DR/01 Lot No.: RSTDSP/BUN-BHM/DR/01	M/s RGI - RBI PL JV	10.02.2023	726,752,760.00	88,09,658.28	Construction of Drains in Bundi Town for efficient storm water management in the city
4	Bhawani Mandi Drainage subproject						Construction of Drains in Bhawani Mandi Town for efficient storm water management in the city
5	Bharatpur City Beautification subproject	RSTDSP/BHR/CTYBF/01	M/s Khandeilwal Construction	05.05.2023	284172064.30	42715751.47	Development & Beautification of Saligram kund, Brijendra Bihari kund, Development & Beautification of Nehru park, Façade Lighting of City Gates, Conservation & Redevelopment of Town Hall Campus and Illumination of Laxman Mandir, Ganga Mandir & Jama Masjid.

S No.	Town	Package No.	Name of Contractor	NTP Date	Contract Cost (INR)	Contract Cost (US\$) *	Description of works
6	Nawalgrh Drainage Subproject	Package No.: RSTDSP/4 Towns/DR/01 Lot No.: RSTDSP/NAW-RAT/DR/01	M/s RGI - RBI PL JV	10.02.2023	491454700.20	59,57,387.72	Construction of Drains in Nawalgarh Town for efficient storm water management in the city
7	Dungarpur Water Supply & Wastewater Subproject	Package No.: RSTDSP/DNG-SGW/WS-WW/01 Lot No.: RSTDSP/DNG /WS-WW/01	M/s Eagle Infra India Limited	10.01.2023	2,108,082,155.80	12955793.06	Construction works of water Supply production; Distribution Network improvements with house services connections for non-revenue water reduction and continuous water supply and providing Sewer network with house sewer connections; Construction of Sewage Treatment Plant and all allied works and operation services of the entire system for 10 years
8	Sagwara Water Supply & Wastewater Subproject	Package No.: RSTDSP/DNG-SGW/WS-WW/01 Lot No.: RSTDSP/SGW/WS-WW/01	M/s Eagle Infra India Limited	10.01.2023	1,151,248,949.47	13000583.46	Construction works of water Supply production; Distribution Network improvements with house services connections for non-revenue water reduction and continuous water supply and providing Sewer network with house sewer connections; Construction of Sewage Treatment Plant and all allied works and operation services of the entire system for 10 years
9	Nokha Water Supply & Wastewater Subproject	RSTDSP/NKH/01	M/s MCPL - PRGL JV	27.09.2022	1,531,570,916.00	25821682.46	Construction works of water Supply production; Distribution Network improvements with house services connections for non-revenue water reduction and continuous water supply and providing Sewer network with house sewer connections; Construction of Sewage Treatment Plant and all allied works and operation services of the entire system for 10 years

S No.	Town	Package No.	Name of Contractor	NTP Date	Contract Cost (INR)	Contract Cost (US\$) *	Description of works
10	Nathdwara Water Supply Subproject	Package No.: RSTDSP/3 Towns/WS-WW/01 Lot No.: RSTDSP/NTD/01	M/s Khilari Infra structure Pvt Ltd.	05.12.2022	1,064,747,785.69	1977089.521	Construction Works of Water Supply production and Distribution Network improvements with house services connections for non-revenue water reduction and continuous water supply and all allied works and operation services of entire system for 10 years
11	Nimbahera Water Supply Subproject	Package No.: RSTDSP/3 Towns/WS-WW/01 Lot No.: RSTDSP/NBH/01	M/s Khilari Infra structure Pvt Ltd.	0501202022	1049419237.48	1920520.196	Construction Works of Water Supply production and Distribution Network improvements with house services connections for non-revenue water reduction and continuous water supply and all allied works and operation services of entire system for 10 years.
12	Jodhpur Wastewater Subproject	RSTDSP/JOD/01	M/s Eagle Infra India Limited	08.08.2022	3,400,259,248.26	5796715.195	Construction of Sewer Network with House sewer connections; Construction of Sewage Treatment Plant & Sewage Pumping Station; Allied works and operation services of the system for 10 Years
13	Jodhpur Drainage Subproject	RSTDSP/JOD/02	M/s SMCC – AG JV	18.04.2023	3,202,069,177.94	14101530.49	Construction of Drains in Jodhpur Town for storm water management
14	Ratangarh Drainage Subproject	Package No.: RSTDSP/4 Towns/DR/01 Lot No.: RSTDSP/NAW-RAT/DR/01	M/s RGI - RBI PL JV	10.02.2023	491454700.20	59,57,387.72	Construction of Drains in Ratangarh Town for efficient storm water management in the city
15	Barmer Wastewater Subproject	Package No.: RSTDSP/BAR-BLT/WS-WW/01 Lot No.: RSTDSP/BAR/WW/01	M/s GCKC Projects and Works PVT Ltd	14.07.2023	943,383,154.00	2758044.87	Construction works of Sewer network with house sewer connections; upgradation of Sewage Treatment Plant and all allied works and operation services of the entire system for 10 years
16	Balotra	Package No.:	M/s GCKC Projects and	14.07.2023	1,826,770,349.60	2646303.976	Construction works of water Supply production; Distribution Network

S No.	Town	Package No.	Name of Contractor	NTP Date	Contract Cost (INR)	Contract Cost (US\$) *	Description of works
	Water supply & Wastewater Subproject	RSTDSP/BAR-BLT/WS-WW/01 Lot No.: RSTDSP/BLT/WS-WW/01	Works Pvt Ltd				improvements with house services connections for non-revenue water reduction and continuous water supply and providing Sewer network with house sewer connections; and all allied works and operation services of the entire system for 10 years
17	Sagwara City Beautification subproject	RSTDSP/SGR/CTYBF/01	M/s D.B. infratech	14.09.2023	229,232,141.34	14101530.49	Improvement of five Lakes of Sagwara, beautification and providing public amenities, plantation work, development of playground and improvement of connecting channels between the lakes.
18	Jaiselmer City Beautification Subproject	RSTDSP/JSL/CTYBF/01	M/s D.B. infratech	14.09.2023	219,945,702.54	25821682.46	Improvement and strengthening of upper pal by constructing retaining wall, development of walkway, mud track, street lighting, plantation, drainage, public amenities in upper pal and development of parking area at the entrance of upper pal and connecting road to the upper pal.
19	Bundi City Beautification Subproject	Subproject is under bidding process	-	-	-	-	Development of Nawal Sagar Park, conservation of Baories (Step wells), City gates and cenotaphs (Chatries) in Bundi town
20	Pushkar City Beautification Subproject	Subproject is under bidding process	-	-	-	-	Development of Ghats in Pushkar Sarover with antiskid treatment, development of changing rooms, conservation and lighting of gates to the ghats, providing street furniture, signage, public toilets, etc.
21	Mount Abu City	Subproject is under bidding process	-	-	-	-	Culvert widening & street beautification from Dundai Puliya to Swastik hotel, Development of

S No.	Town	Package No.	Name of Contractor	NTP Date	Contract Cost (INR)	Contract Cost (US\$) *	Description of works
	Beautification Subproject						entrance plaza of market street at Nakki lake, Development of street furniture on Nakki lake promenade and Installation of musical fountain at Nakki lake.
22	Nawalgarh City Beautification Subproject	DPR under finalization	-	-	-	-	Development of heritage walks in the town, redevelopment of howks on the heritage walk, Development of Ramdev Mela ground, Redevelopment of Chowks and gates, and Conservation, restoration of façade of Havelis.
23	Nathdwara City Beautification Subproject	DPR under finalization	-	-	-	-	-

* 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 18 project towns in (Dungarpur & Sagwara under single contract as package, no. RSTDSP/DNG-SGWS-WW/01, Bundi, Nathdwara & Nimbahera under single contract as package, no. RSTDSP/3 Towns/WS-WW/01, Nokha – package no. RSTDSP/NKH/01, Jodhpur (Sewerage) – RSTDSP/JOD/01, Jodhpur (Drainage) – RSTDSP/JOD/02, Bharatpur (Sewerage) - RSTDSP/BHR-WW/01, Bundi, Bhawani Mandi, Nawalgarh & Ratangarh (Drainage) under single contract as package no. RSTDSP/TOWNS/DR/01, Barmer & Balotra under single Package no. – RSTDSP/BAR-BLT/WS-WW/01, Bharatpur (City Beautification) RSTDSP/BHR/CTYBF/01, Jaisalmer (City Beautification) RSTDSP/JSL/CTYBF/01, Sagwara (City Beautification) RSTDSP/SGR/CTYBF/01 and Work has started in all 18 towns (Dungarpur, Sagwara Bundi, Nathdwara, Nimbahera, Nokha, Jodhpur (Sewerage), Jodhpur (Drainage), Bharatpur (Sewerage), Bundi, Bhawani Mandi, Nawalgarh & Ratangarh (Drainage) Barmer, Balotra, Bharatpur Jaisalmer & Sagwara (City Beautification) sub project towns. Overall status of the project and work progress is given in following **Table 3 & 4.**

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

S. No.	Sub-Project Towns	Package Number	Type of Works*	Status of Sub-Project				Progress of Works**
				Design	Pre-Construction	Construction	Operation Phase	
1	Bharatpur	RSTDSP/BHR/WW/01	Wastewater works			✓		19.50%
2	Bundi	Package No.: RSTDSP/3 Towns/WS-WW/01 Lot No.: RSTDSP/BUN/01	Water supply & Wastewater Subproject			✓		21.70%
3	Bundi	Package No.: RSTDSP/4 Towns/DR/01	Drainage Subproject			✓		10.70%
4	Bhawani Mandi	Lot No.: RSTDSP/BUN-BHM/DR/01	Drainage Subproject			✓		23.24%
5	Bharatpur	RSTDSP/BHR/CTYBF/01	City Beautification Subproject			✓		49%
6	Nawalgrh	Package No.: RSTDSP/4 Towns/DR/01 Lot No.: RSTDSP/NAW-RAT/DR/01	Drainage Subproject			✓		19.24%
7	Dungarpur	Package No.: RSTDSP/DNG-SGW/WS-WW/01 Lot No.: RSTDSP/DNG /WS-WW/01	Water Supply & Wastewater Subproject			✓		32.08%
8	Sagwara	Package No.: RSTDSP/DNG-SGW/WS-WW/01 Lot No.: RSTDSP/SGW/WS-WW/01	Water Supply & Wastewater Subproject			✓		24.75%
9	Nokha	RSTDSP/NKH/01	Water Supply & Wastewater Subproject			✓		33.19%
10	Nathdwara	Package No.: RSTDSP/3 Towns/WS-WW/01 Lot No.: RSTDSP/NTD/01	Water Supply Subproject			✓		29.30%

S. No.	Sub-Project Towns	Package Number	Type of Works*	Status of Sub-Project				Progress of Works**
				Design	Pre-Construction	Construction	Operation Phase	
11	Nimbahera	Package No.: RSTDSP/3 Towns/WS-WW/01 Lot No.: RSTDSP/NBH/01	Water Supply Subproject			✓		30.23%
12	Jodhpur	RSTDSP/JOD/01	Wastewater Subproject			✓		70.00%
13	Jodhpur	RSTDSP/JOD/02	Drainage Subproject			✓		25%
14	Ratangarh	Package No.: RSTDSP/4 Towns/DR/01 Lot No.: RSTDSP/NAW-RAT/DR/01	Drainage Subproject			✓		22%
15	Barmer	Package No.: RSTDSP/BAR-BLT/WS-WW/01 Lot No.: RSTDSP/BAR/WW/01	Wastewater Subproject			✓		4.21%
16	Balotra	Package No.: RSTDSP/BAR-BLT/WS-WW/01 Lot No.: RSTDSP/BLT/WS-WW/01	Water supply & Wastewater Subproject			✓		2.0%
17	Sagwara	RSTDSP/SGR/CTYBF/01	City Beautification Subproject			✓		0.7%
18	Jaiselmer	RSTDSP/JSL/CTYBF/01	City Beautification Subproject			✓		0.5%
19	Bundi	Subproject under bidding	City Beautification Subproject					
20	Pushkar	Subproject under bidding	City Beautification Subproject					
21	Mount Abu	Subproject under bidding	City Beautification Subproject					
22	Nawalgarh	DPR under finalization	City Beautification Subproject					
23	Nathdwara	DPR under finalization	City Beautification Subproject					

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

Table 4: Cumulative Progress of Works up to 31.03.2024**Town: Bharatpur (Wastewater) Sub Project**

Contract description	Cumulative Progress of works up to 31.03.2024		
Package no - RSTDSP/BHR/WW/01 Works under package- 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 Bharatpur Name of Contractor- M/s SMCC - AG JV Contract type- Design, Build and Operate Date of Start- 22-02-2023 Cumulative Physical Progress- 19.50 % Stipulated Date of completion of Design Build- 21-02-2026	Wastewater Work:		
	Item Description	BoQ Scope	Progress
	STP-01 (Near Existing STP – Nagla Gopal)	9.4 MLD (1 Nos.)	• Total 39 Drawing approved in CAT-02 out of 48 (Total Scope) and 2 Nos drawing are pending for resubmission at contract End. • Blower, Sluice Gate and Coarse screen channel staked at Site. • TEER PCC completed. • SBR PCC work in progress. • Admin building Excavation & PCC completed.
	SPS (03 Nos.)	SPS-01; 0.81 MLD (Near Nai Mandi Samsan)	• Total 27 Drawing approved in CAT-02 out of 35 (Total Scope) and. • Sump well sinking work in progress. Meter room slab casting completed and Brick masonry work in progress. • Sluice Gate / Coarse Screen Staked at Site. • Sewage Pump Staked at Site.
		SPS-03; 1.65 MLD (Near Mukharjee Nagar (R.N.F.C.D Bridge)	• Total 27 Drawing approved in CAT-02 out of 35 (Total Scope). • Sinking work Completed and PCC work in progress. Meter room slab & Guard Room casting completed. • Sluice Gate / Coarse Screen Staked at Site • Sewage Pump Staked at Site.
		SPS-04; 2.25 MLD (Near Complex –UIT work Shop Scheme, Deeg Road)	• Total 27 Drawing approved in CAT-02 out of 35 (Total Scope). • Sump well sinking work is in progress. Meter & Guard room Bricks Masonry work is in Progress • Sluice Gate / Coarse Screen Staked at Site. • Sewage Pump Staked at Site.
	Lateral sewer (up to dia 315)	79.718 Km	• Supply: 22.858 km • Laid: 19.465 km • Testing: 7.20 km • Deflection test: 1.0 Km • Commissioning- 0 km
	Outfall (above dia 315)	0.772 Km	• Supply: 0.0 km. (Total) • Laid: 0.042 Km • Testing: 0.0 Km • Commissioning
	PVC-U pipe (110 & 160 mm dia)	53.150 Km	• Supply: - 2.880 km • Laid: - 2.512 km • Testing: 0.5 Km

Contract description	Cumulative Progress of works up to 31.03.2024		
			• Commissioning: -
	Manholes (All types)	3543 Nos.	• Supply: 575 Nos • Installation: - 541 Nos • Testing: - 10 Nos • Commissioning: -
	Inspection Chamber (All types)	6027 Nos.	• Supply: 500 Nos • Installation: - 457 Nos • Testing -15.0 nos. • Commissioning: - nos.
	Population benefitted due to commissioned		30140
	Building and Miscellaneous work		
	Item Description	BoQ Scope	Progress
	MCC building	1 Nos.	
	PLC SCADA	1 Nos.	PLC SCADA drawing approved by PMCBC in CAT-02.
	Trenchless Work		
	Item Description	BoQ Scope	Progress
	HDPE pipe	6.01 Km	• Supply: - 4.746 km • Laid: - 4.550 km. • Testing: - 0.0 Km. • Commissioning: - km
	MS pipe	-	• Supply: - Meter • Laid: - Meter • Testing: - Meter • Commissioning: - Meter
	For Road Cutting & Restoration-		
	Road cutting	Road restoration	Balance Road restoration
	a) CC: 5.850	a) CC: 1.080 km (up to CC);	a) CC: - 4.770 km
	b) BT: 4.915	b) BT: 0.0 Km;	b) BT: - 4.915 km
	c) WMM: - 1.562 Km	(WBM/GSB Completed)	c) WMM: - 0Km
	d) Kaccha: 2.630 Km	c) WMM: - 1.562 Km	d) Kaccha: -0
		d) Kaccha – 2.630 Km	

Town: Bundi (Water Supply & Wastewater) Sub Project

Contract description	Cumulative Progress of works up to 31.03.2024		
Package No.: RSTDSP/3 Towns/WS-WW/01 Lot No.: RSTDSP/BUN/01 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 and Construction of Sewage Treatment Plant and all allied works and Operation services of the WTP with raw and Clear Water Pumping System in water supply system & STP and allied works in sewerage system 10 year at Bundi Town Name of Contractor- M/s Khilari Infra Pvt. Ltd Contract type- Design, Build and Operate Date of Start- 15.12.2022 Cumulative Physical Progress- 21.7 % Stipulated Date of completion of Design Build- 14.12.2024	Wastewater Work:		
	Item Description	BoQ Scope	Progress
	STP-01; 6.50 MLD	(1 Nos.)	• BEP, Layout plan, HFD & PFD Approved. • TEER (650 KI) – - Layout plan, HFD & PFD Approved. 650kl TEER work completed up to walkway and container wall up to 4th lift RCC completed. • Metering & Guard room: plastering work completed. Staff quarter staircase steel/shuttering/casting work is in progress. Sludge Storage yard column completed. • Sludge Storage yard: Civil work completed, • ADM block column steel/ shuttering/casting & brickwork is in progress. • MPS: Vertical wall 4th lift Completed, MPS inlet channel raft RCC completed. • SBR: RCC completed of base slab and wall steel binding work is in progress.
	Treated water line HDPE-DWC (200 Dia)	10.00 Km	• Supply: km • Laid: km • Testing: Km • Commissioning
	Water Supply Work:		
	Total Distribution network	31.994 Km	• Supply: -18.65 km • Laid: - 9.45 km • Testing: - 7.106 km • Commissioning: - km
	i) HDPE pipe	30.8 Km	• Supply: -18.65 km • Laid: - 9.42 km • Testing: - 7.106 km • Commissioning: - km
	DI Pipe K9	1.194 km	• Supply: - km • Laid: - km • Hydro Testing: - km • Commissioning: - km
	House Service connection	7208 nos	• Laying/installation: - 1337 nos • Testing: - nos • Commissioning: - nos
	Domestic Water meter	7208 nos	• Supply: - nos. • Installation: - nos. • Testing: - nos. • Commissioning: - nos.
	Metering	EMFM	• Supply: - nos. • Installation: - nos. • Testing: - nos. • Commissioning: - nos.

Contract description	Cumulative Progress of works up to 31.03.2024		
		BFM	• Supply: - nos. • Installation: - nos. • Testing: - nos. • Commissioning: - nos.
	Pressure transmitters		• Supply: - nos. • Installation: - nos. • Testing: - nos. • Commissioning: - nos.
	No. of DMAs	10 Nos	
	WTP (8 MLD)	01 No.	• Survey of Existing structure and proposed new land for construction work approved by PIU, CMSC. SBC test completed & submitted to PIU and Layout approved • Metering Guard room: Brick work & plastering work in progress. • Admin Building: RCC up to plinth beam completed & Column shuttering in progress for 1st lift along with brick masonry work. • Clarifloculator: PCC work in progress. Chlorination mixing chamber: Excavation work is in progress. • Site staff quarter: excavation work started.
	Pump house	01 Nos	• Survey work completed & only E&M work in
	CWR (1200 KL)	01 Nos	• Raft and vertical wall RCC completed up to 4th
	OHSR (450 KL)	01 Nos	• RCC work completed up to top dome.
	Rehab work (WTP, PH, CWR, OHSR etc.)	GLSR- 04 Nos CWR- 03 Nos PH- 02Nos HW- 01Nos	
	For Road Cutting & Restoration-		
Item Description	BoQ Scope	Progress	
Road cutting	a) CC: - 27.0 km b) BT: - 3.80 km	a) CC: - 9.660 km b) BT: - 0.0 km	
Road restoration	a) CC: - 27.0 km b) BT: - 3.80 km c) Kuchha/WMM: - 0.200 Km	a) CC: 7659km (up to PCC);7659 km (up to CC) b) BT: 0.0 km (up to WBM); 0.0 km (up to BT) c) Kuchha/WMM: 0.200 Km	
Balance Road restoration	Cutting as on date a) CC: - 9.66 km b) BT: - 0.0 km	Balance work a) CC: - 2001km b) BT: - 0.0 km	

Town: Bundi (Drainage) Sub Project

Contract description	Cumulative Progress of works up to 31.03.2024		
Package No.: RSTDSP/4 Towns/DR/01 Lot No.: RSTDSP/BUN-BHM/DR/01 Works under package- Construction of Works of drainage system at Bundi Name of Contractor- M/s RGI-RBIPL JV Contract type- Design, Build and Operate Date of Start- 23.02.2023 Cumulative Physical Progress- 10.7 % Stipulated Date of completion of Design Build- 23.08.2024 Likely date of completion- 14.12.2024	Drainage Work:		
	Item Description	BoQ Scope	Progress
	Precast Box Laying Supply	6.53 km	1.36 Km
	Precast Box Laying	6.53 km	1.32 Km
	Cast in situ	4.25 km	0.61 km- Excavation work & PCC-0.54 km completed, reinforcement 0.5 km & raft – 0.46 km
	Stone pitching	3.43 km	Soil Dressing work in progress.
	For Road Cutting & Restoration-		
	Road cutting	Road restoration	Balance Road restoration
	CC: 0.0 km BT: 0.0 km Kuchha/WMM: 0.0km	CC: 0.0 km BT: 0.0 km Kuchha/WMM: 0.0km	CC: 0.0 km BT: 0.0 km Kuchha/WMM: 0.0km

Town: Bhawani Mandi (Drainage) Sub Project

Contract description	Cumulative Progress of works up to 31.03.2024		
Package No.: RSTDSP/4 Towns/DR/01 Lot No.: RSTDSP/BUN-BHM/DR/01 Works under package- Construction of Works of drainage system at Bhawani Mandi Name of Contractor- M/s RGI-RBIPL JV Contract type- Design, Build and Operate Date of Start- 23.02.2023 Cumulative Physical Progress- 23.24 % Stipulated Date of completion of Design Build- 23.08.2024	Drainage Work:		
	Item Description	BoQ Scope	Progress
	Construction of drainage		
	i) Re-construction of Drain	7.950 Km	Work Start excavation 150 mtr
	ii) New Drain construction	50.35 Km	- Excavation- 3318 mtr - PCC – 3211 mtr - Raft – 3114 mtr - Wall – 3022 mtr - Work is in progress.
	Population benefitted due to commissioned	53000	
	For Road Cutting & Restoration-		
	Road cutting	Road restoration	Balance Road restoration
	NIL	NIL	NIL

Town: Bharatpur (City Beautification) Sub Project

Contract description	Cumulative Progress of works up to 31.03.2024		
Package no - RSTDSP/BHR/CTYBF/01 Works under package- City Beautification work at Bharatpur Name of Contractor- M/s Khandelwal Construction Company JV M/s M.M. Brothers. Contract type- Design, Build and Operate Date of Start- 22-02-2023 Cumulative Physical Progress- 49 % Stipulated Date of completion of Design Build- 21-02-2026	City Beautification Work:		
	Item Description	Scope	Progress
	Conservation and Redevelopment of Town Hall Campus	1 Nos.	- Plaster Dismantling work is in progress. - Electrical Work is in Progress at Town Hall - Chajja repairing work is in progress
	Development & Beautification Works - Brijendra Bihari Kund	1 Nos.	- Wall-B Red Stone Laying work is in Progress. - Wall D Site Well Arch Brick Masonry work is in Progress. - Cobble work and PCC work is progress in Front of Temple - Plastering work at main Gate at Brijendra bihari kund is in Progress. - Kund Dewatering/ Desludging Work is in Progress. - Kiosk & Toilet Slab plaster work is in progress.
	Development & Beautification Works - Saligram Kund	1 Nos.	- All design & drawing has been approved. - Jungle Clearance completed. Work Stopped Due to High Court Stay.
	Conservation and Redevelopment of Nehru Park	1 Nos.	- Guard room & Toilet plaster working is in Progress. - Stair Cladding Work is in progress. - Gajibo Column curing is in progress. - Electric Pole foundation work is progress
	Façade Lighting & Illumination of Laxman Mandir, Ganga Mandir & Jama Masjid	1 Nos.	Laxman Mandir: - Lighting work completed. Ganga Mandir: - Lighting Work Completed. Jama Maszid: - Lighting work is in Progress.
	Façade Lighting & Illumination of City Gates.	1 Nos.	Nimda Gate: - Lime Kara work Completed. Anah Gate: - Lime Kara work Completed. Kumher Gate: - Lime Kara work is in Progress. Lighting Work: - Lighting work at Jaghina & Govardhan gate completed.

Project: Nawalgarh (Drainage) sub Project

Contract description	Cumulative Progress of works up to 31.03.2024		
Package No.: RSTDSP/4 Towns/DR/01 Lot No.: RSTDSP/NAW-RAT/DR/01 Works under package- Providing drainage network and construction of drainage pumping station and all allied works at Nawalgarh Name of Contractor- M/s RGI-RBIPL JV Contract type- Design, Build and Operate Date of Start- 23.02.2023 Cumulative Physical Progress- 19.24 % Stipulated Date of completion of Design Build- 23.08.2024	Drainage Work:		
	Item Description	BoQ Scope	Progress
	RCC NP4 Pipe (Gravity Main)	3400 mtr	Supply: 2662.50 mtr Laid: 1935.00mtr Balance: 1465.00 mtr
	DI K-7 Pipe (Pumping Main)	2150 mtr	Supply: 2146.50 mtr Laid: 924 mtr Balance: 1226.00 mtr
	Precast RCC Circular Manholes	68 Nos.	Supply: 45 Nos. Laid: 29 Nos. Balance: 39 Nos.
	Storm Water Pumping Station (38.77 MLD)	1 No.	GAD/Hydraulic Design of SWPS is resubmitted at PMCBC for review.
	Stepwell at Bakra Mandi	1 No.	GAD/Hydraulic Design of Stepwell is re-submitted at PMCBC for review.
	Storm Water Collection Chamber	3 No.	GAD/Hydraulic Design & Structural design and drawing of Collection Chamber at Swamiyon Ka Jav & Bhakton Ka Johad is approved. GAD/Hydraulic Design of Collection Chamber at BakraMandi is re-submitted at PMCBC for review.
	Development of Dedhana Johad	1 No.	-
	For Road Cutting & Restoration-		
	Road cutting	Road restoration	Balance Road restoration
	Kachha- 666.50 mtr ITL- 68.50 mtr CC- 2101.50mtr BT- NIL	Kachha- 666.50 mtr ITL- 68.50 mtr CC- 2101.50mtr BT- NIL	Kachha- 666.50 mtr ITL- 68.50 mtr CC- 2101.50mtr BT- NIL

Town: Dungarpur (Water Supply & Wastewater) Sub Project

Contract description	Cumulative Progress of works up to 31.03.2024		
Package No.: RSTDSP/DNG-SGW/WS-WW/01 Lot No.: RSTDSP/DNG /WS-WW/01 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 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 Dungarpur Name of Contractor- M/s Eagle Infra India Ltd. Thane (Maharashtra) Contract type- Design, Build and Operate Date of Start- 23-01-2023 Cumulative Physical Progress- 32.08% Stipulated Date of completion of Design Build- 21-01-2026	Water supply Work:		
	Item	Scope	Progress
	DI Pipe K7	160.276 Km	• Laid: - 35.157 mtr
	DI Pipe K9	30.230 Km	• Laid: - mtr.
	House Service connection	12067 nos	• Laid – nos
	Domestic Water meter	12067 nos	• Installation: - nos
	WTP	NIL	• Work not started
	Pumping Station (Uday vilas)	1-nos	• Work not started
	Pumping Station (MPH office)	1-nos	• Work not started
	Pumping Station (Chandpole)	1-nos	• Work not started
	Pumping Station (New Colony)	1-nos	• Work not started
	Pumping Station (Bori)	1-nos	• Work not started
	Wastewater Work:		
	STP (SBR Technology)	4.00 MLD	1. SBR: - Raft Reinforcement is in under progress. Admin Building: - Footing Reinforcement work is in under progress.
	SPS -01 (Near Kine House of Nagar Parishad)	3.00 MLD	• Excavation work in under progress. Reinforcement cutting work is in under progress.
	SPS -02 (Sabela Bypass, Near Aashram Vatika)	3.00 MLD	1. GAD Drawing is Approved. 2. Structural Drawing is Approved • Compound Wall work completed
	SPS -03 (Between RICCO and Gap Sagar)	3.00 MLD	• Excavation work in under progress.
	Lateral sewer (up to dia 300 HDPE-DWC)	61.32 Km	• Laid: 30.650 km
	NP4 (above Dia 300 RCC)	2.466 Km	•
	PVC-U pipe (110- & 160-mm Dia)	57.37 Km	• Laid: - 7.622 km
	Manholes (All types)	RCC Precast M-40 Gr-3593 Nos..	• Installation: - 1282 Nos
	Sewer Brick Manhole -	390 nos	• Work not started
	Inspection Chamber (All types)	6460 nos	• Installation: - 1532 Nows

Contract description	Cumulative Progress of works up to 31.03.2024		
	HSC	6460 nos	• Work not started
	HDPE pipe	4.576 Km	• Work not started
	For Road Cutting & Restoration-		
	Road cutting	Road restoration Base Layer	Road restoration Top Layer
	• 35.157	34.521	31.998
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	CRMC centre-01	01 nos	Civil work is completed, finishing work is Under progress.
	CRMC centre-02	01 nos	Civil work is completed, finishing work is Under progress.
	MCC building	01 nos	Formwork & Reinforcement of Plinth Beam work is in Progress.

Town: Sagwara (Water Supply & Wastewater) Sub Project

Contract description	Cumulative Progress of works up to 31.03.2024		
Package No.: RSTDSP/DNG-SGW/WS-WW/01 Lot No.: RSTDSP/DNG /WS-WW/01 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 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 Sagwara Name of Contractor- M/s Eagle Infra India Ltd. Thane (Maharashtra) Contract type-	Water Supply Work:		
	Item	Scope	Progress
	HDPE pipe	67.91 Km	• Laid: - 49.053 Km
	DI Pipe K7	46.94 Km	• Laid: - 4.859 Km
	DI Pipe K9	9.43 Km	• Ni
	House Service connection	5504 nos	• Laid – 956 nos
	Domestic Water meter	5504 nos	• Work not started
	Pumping Station (Punarvas colony)	1-nos	• Work not started
	CWR-1 (MPH)	1-nos	• Work not started
	Wastewater Work:		
	STP (SBR Technology)	3.60 MLD	• SBR: - Raft Reinforcement is in under progress
	SPS -01 (Punarvas Colony)	1.00 MLD	• Work not started
	Lateral sewer (up to dia 300 HDPE-DWC)	41.16 Km	• Laid: 23.127 km
	NP4 (above Dia 300 RCC)	0.643 Km	• Work not started
	PVC-U pipe (110- & 160-mm Dia)	38.45 Km	• Laid: - 6.510 km
	Manholes (All types)	RCC Precast M-40 Gr-1594 Nos..	• Installation: - 916 Nos
	Sewer Brick Manhole -	195 nos	• Work not started
	Inspection Chamber (All types)	4215 nos	• Installation: - 1331 Nos
	HSC	4215 nos	• Work not started

Contract description	Cumulative Progress of works up to 31.03.2024		
Design, Build and Operate	For Road Cutting & Restoration-		
Date of Start- 23-01-2023	Road cutting	Road restoration Base Layer	Road restoration Top Layer
	• 77.039	75.265	73.547
Cumulative Physical Progress- 24.75%	Building and Miscellaneous work		
Stipulated Date of completion of Design Build- 21-01-2026	Item Description	Scope of Work	Progress made so far
	CRMC centre	01 nos	Civil Work is Completed, Finishing Work is in Under Progress.
	MCC building	01 nos	Civil Work is Completed, Finishing Work is in Under Progress.
	PLC SCADA	-	-

Town: Nokha (Water Supply & Wastewater) Sub Project

Contract description	Cumulative Progress of works up to 31.03.2024		
Package no -) RSTDSP/NKH/01	Water Supply Work:		
Works under package- Construction of Works of Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply and Providing Sewer Network, and construction of Sewage Treatment Plant, Sewage Pumping Station and all allied Works and operation services of the entire system for 10 years at Nokha Name of Contractor- M/s. MCPL PRGL JV Contract type- Design, Build and Operate Date of Start- 11-10-2022 Cumulative Physical Progress- 33.19 % Stipulated Date of completion of Design Build- 10-10-2025	Item	Scope	Progress
	HDPE pipe	295.61 Km	• Laid:-270.20 Km
	DI Pipe K7	0.51 Km	• Laid:- 0
	DI Pipe K9	17.84 Km	• Laid:-12.42 Km
	House Service Connection	14230	• Laying:- 5763
	Domestic Water meter	14230	• Installation: - 4557
	Pump House	1. <u>Raisar Campus</u>	• Plaster Work & Grit-wash work in progress. Note- Design & Drawing, Civil work and EMI (29.75)
		2. <u>Ranarao Campus</u>	• Kota Stone Work in progress. Note- Design & Drawing, Civil work and EMI (31.45).
		3. <u>AEN Campus</u>	• Work Not Started Yet.
		4. <u>Bagdi Campus</u>	• Bar-Binding Work for wall in progress.
		5. <u>Teja Mandir Campus</u>	• Work Not Started Yet.
	CWR	1100 KL (Raisar H/W)	• Civil Work Completed
		500 KI (Ranarao H/W)	• Civil Work Complete & Valve Chamber in Progress Preparation for Hydrotesting.
		150 KL (A.En. H/W)	• Excavation and Existing Pipe Line Shifting
	Wastewater Work		
	STP	5 MLD	Admin Building – Brick work in progress SBR- Raft Casting Completed, Bar-binding in progress for walls. TEER- bar-binding for Container wall in progress.

Contract description	Cumulative Progress of works up to 31.03.2024		
			PTU- Column Bar-binding in progress Staff Quarter- Plaster and Flooring in progress. Meter room & Guard Room- Plaster and flooring work in progress. Note-Cumulative ProgressDesign & Drawing, Civil work and EMI (7.4 %)
		7 MLD	Work not Started yet Due to Local Public hinderance.
	SPS	4 MLD	Wet Well- Brick work in progress PLCC & Scada Room- Curing for Slab Work in progress. Guard Room- Curing for Slab Work in progress. Note-Cumulative ProgressDesign & Drawing, Civil work and EMI (27.62 %)
	Sewer Line (above dia. 315mm)	7.69 Km	Work Not Started Yet
	Manholes (All types)	264 No's.	Work Not Started Yet
	For Road Cutting & Restoration-		
	Road cutting	Road restoration Base Layer	Road restoration Top Layer
	• 87.26 km	86.17 km	85.94 km
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	CSC Centre	1	Painting work in Progress
	CCC Building	1	Painting work in Progress
	MCC Building	1	Grit-wash & Flooring work in Progress
	PLC SCADA	-	

Town: Nathdwara (Water Supply) Sub Project

Contract description	Cumulative Progress of works up to 31.03.2024		
Package No.: RSTDSP/3 Towns/WS-WW/01 Lot No.: RSTDSP/NTD/01 Works under package- works of Water Supply Production and Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply and Operation services of the	Water Supply Work:		
	Item	Scope	Progress
	DI Pipe K7	137.133 km	• Laid:- 41.754Km
	DI Pipe K9	7.750 km	• Laid:- 1.345 Km
	House Service Connection	9940 Nos.	• Laying:- 1538Nos.
	Domestic Water meter	9940 Nos.	• Installation: - Nil
	INTAKE (11 MLD at Intake Well Nandsamand Dam)		Civil Work: - Coffor Dam work in progress. EMI Work: - Start after completion of civil work.

Contract description		Cumulative Progress of works up to 31.03.2024		
entire system for 10 years at Nathdwara (Rajasthan). Name of Contractor- M/s Khilari Infrastructure Pvt. Ltd.,Navi Mumbai Contract type- Design, Build and Operate Date of Start- 15.12.2022 Cumulative Physical Progress- 29.30% Stipulated Date of completion of Design Build- 14.12.2025	WTP (11 MLD WTP at Nandsamand Dam)	1 No.	1. 1500 KL CWR: - Dome Completed. 2. Chlorine Contact Tank: - Civil work completed. 3. Tube Settler: - 4th lift reinforcement and shuttering work in progress. 4. Sludge Sump: - 2nd lift casting completed and 3rd lift reinforcement binding and shuttering work in progress. 5. Recycle Water Sump: - 1st lift completed and 2nd lift wall reinforcement work in progress. 6. Filter Sump: - Slab completed. 7. Sludge Storage Yard: - Civil Work Completed. 8. Sludge Thickener: - 3rd lift reinforcement binding and shuttering work in progress. 9. Chlorination Building: - Plastering work in progress. 10. Clarifloculator-1: - 1st lift wall steel binding work in progress. 11. Clarifloculator-2: - 1st lift wall casting completed. 2nd lift of reinforcement work in progress. 12. Chemical Building: - Column reinforcement work under progress above Plinth beam and brick work in progress. • EMI Work:- Start after completion of civil work.	
	CWR (900 KL CWR at Ganesh Tekari)	1 No.	• Stair and Dome completed.	
	1500 KL Capacity OHSR at Nathuwas	1 Nos	Ring beam shuttering and staircase 4th binding shuttering work in progress. EMI Work : - SIP Finalization in Progress.	
	300 KL Capacity OHSR at Bhandari Bawri	1 Nos	Ring beam shuttering and staircase 5th binding shuttering work in progress. • EMI Work : - SIP Finalization in Progress.	
	For Road Cutting & Restoration-			
Road cutting		Road restoration Base Layer	Road restoration Top Layer	
• 42.959		41.854	41.338	
Building and Miscellaneous work				
Item Description		Scope of Work	Progress made so far	
CRMC-1 Building at Nathuwas		1 Nos	Finishing work in progress.	
CRMC-2 Building at Imli Chowk		1 Nos	Finishing work in progress.	
MCC Building(MCC Building at Nansamand)		1 No	Column completed upto lintel and brick work in progress.	
PLC SCADA at WTP			—	

Town: Nimbahera (Water Supply) Sub Project

Contract description	Cumulative Progress of works up to 31.03.2024		
Package No.: RSTDSP/3 Towns/WS-WW/01 Lot No.: RSTDSP/NBH/01 Works under package- M/s Khilari Infrastructure Pvt. Ltd Name of Contractor- Construction of Works of Water Supply Production and Distribution Network, Improvements with house service connections for nonrevenue water reduction and continuous water supply and operation Services of the entire system for 10 years at Nimbahera Contract type- Design, Build and Operate Date of Start- 15.12.2022 Cumulative Physical Progress- 30.23% Stipulated Date of completion of Design Build- 14.12.2025	Water Supply Work:		
	Item	Scope	Progress
	HDPE pipe	12.371 km	• Laid:-11.133 km
	DI Pipe K7	136.717 km	• Laid:-km 31.624 km
	DI Pipe K9	27.070 km	• Laid:-4.346 km
	House Service Connection with HDPE pipe from HDPE Pipe Distribution Line	1598 Nos.	• Laying/install:-868nos
	House Service Connection with HDPE pipe from UPVC/DI/CI Pipe Distribution Line	11002 Nos	Laying/install:-1295nos.
	No. of DMAs.	15	• (1-DMA-10.1-90%-complete), • (2-DMA-11.1-80%-Complete), • (3-DMA-9.1-75%-Complete) • (4-DMA-6.1-55%Comple), • (5-DMA-7.1-15%-Complete) • (6-DMA-4.1-15%-Complete), • (7-DAM 8.1 10% Complete)
	INTAKE (5.74 MLD, Near GambhiriDam)	1 Nos.	Coffer Dam Work is in progress.
	WTP (5.74 MLD, Near Gambhiri Dam)	1 Nos	(1) CWR 3rd lift outer wall deshuttering work in progress. (2) Chlorination Building finishing work is in progress. (3) chemical building –roof slab steel binding work is in progress.(4) Tube settler 1st lift above Ground level steel binding work in progress (5) sludge sump excavation is completed (6) Filter beds First lift wall shuttering work is in progress.(7) staff Quarter Footing Casting work is in progress.(8) Boundry wall Plaster work in progress.
	Pump House	1 No (300 Sqm Pump house Near B.R. College)	Excavation work is completed.
	CWR	1No(CWR at Proposed Near B.R. College HW 1000 KL)	CWR raft casting completed & Inner wall upto 4th lift Casting completed. & outer wall 4th lift casting completed.
	For Road Cutting & Restoration-		
	Road cutting	Road restoration Base Layer	Road restoration Top Layer
	• 47.102	44.40	44.119
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	CRMC –I Centre	2 Nos. 1.(1 is Near B.R College)	(1) finishing work is in progress.
	CRMC -II Centre	2.(1 is in PHED Campus)	[(2) roof slab shuttring & steel Binding work is in progress.

Contract description	Cumulative Progress of works up to 31.03.2024		
	MCC Building	1 No(MCC Proposed at BR College)	Finishing work is in progress.
	PLC SCADA	1 Nos.	
	Chlorination Room	1 Nos. of Chlorination Room Proposed 1.Chlorination room proposed at BR College	Finishing work is in progress.
	Chlorination room	1 Nos. of chlorination room proposed at Adarsh nagar	finishing work is in progress.
	Chlorination room	1 Nos of chlorination room proposed at Bus stand	finishing work is in progress.

Town: Jodhpur (Wastewater) Sub Project

Contract description	Cumulative Progress of works up to 31.03.2024		
Package no - (RSTDSP/JOD/01) Works under package- Construction of Works of Sewer Network, and construction of Sewage Treatment Plant and all allied Works and operation services of the STP and SPS for 10 years at Jodhpur Name of Contractor- M/s Eagle Infra India Ltd. Contract type- Design, Build and Operate Date of Start- 25/08/2022 Cumulative Physical Progress- 70% Stipulated Date of completion of Design Build- 24/08/2025	Wastewater Work:		
	Item Description	Scope	Progress
	5 MLD STP (At Khokhariya Village)	100%	Nil
	6.5 MLD SPS (at Nandri STP Campus)	100%	Nil
	Sewer Pipe (DWC)	169.08 Km	Laid : 144.33 Km
	RCC pipe	21.59 km	Laid:10.76Km
	PVC-U pipe (110mm to 160mm)	100.87 km	Laid: 61.43Km
	Manholes (All types)	12917 Nos	Installation:6827 nos.
	Inspection Chamber	19380 Nos	Installation :-8722nos.
	Rehabilitation of	13.620 Km	Installation :8.92Km
	Existing Sewer line by		
	Pipe Bursting/CIPP		
	Technology		
	Conditional Assessment	450 km	439.05km
	House Sewer Connection (HSC)	19380Nos	5912nos
	HDPE pipe	21.59 km	Laid : 7.14 Km
	For Road Cutting & Restoration-		
	Road cutting	Road restoration Base Layer	Road restoration Top Layer
	54.61 km	54.16 km	51.41 km

Town: Jodhpur (Drainage) Sub Project

Contract description	Cumulative Progress of works up to 31.03.2024		
Package no - RSTDSP/JOD/02 Works under package- Construction of works of Bhairav Nallah (from Shobhawato ki Dhani to Jojari river via Pal Gaon, Tanawada, Ghinado ki Dhani and Salawas Road) and Saran Nagar Nallah (from Ganesh Nagar, Banar Road to Jojari river via Saran Nagar ROB) and all allied Works at Jodhpur" Name of Contractor- M/s SMCC AG-JV Contract type- Design, Build and Operate Date of Start- 02-05-2023 Cumulative Physical Progress- 25 % Stipulated Date of completion of Design Build- 01-05-2025	Drainage Work:		
	Item	Scope	Progress
	Bhairav Nallah	13.20 km	Work is Completed/ In Progress in following Chainage: Chainage no. 370-1480 Chainage no. 1810-2250 Chainage no. 2420-2870 Chainage no. 3050-3550 Chainage no. 3620-3950 Chainage no. 4020- 4690 Chainage no. 5910-6250 • Chainage no. 6570-7240
	Total Raft		• 5.023 km
	Raft With Vertical Walls		• 4.200 km
	Complete Drain		• 3.588 km
	Saran Nagar Nallah	7.13 km	• Work Not Yet Started
	For Road Cutting & Restoration-		
	Road cutting	Road restoration Base Layer	Road restoration Top Layer
	• NA	NA	NA
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	NA	NA	NA

Town: Ratangarh (Drainage) Sub Project

Contract description	Cumulative Progress of works up to 31.03.2024		
Package No.: RSTDSP/4 Towns/DR/01 Lot No.: RSTDSP/NAW-RAT/DR/01 Works under package- Providing drainage network and construction of drainage pumping station and All allied works at Ratangarh/Nawalgarh Name of Contractor- M/s RGI RBIPL (JV), Jalandhar Contract type- Design, Build and Operate	Drainage Work:		
	Item	Scope	Progress
	1.1 MLD SWPS-1 Near Railway Quarters	1.1 MLD	• Design and Drawing is under progress.
	2.3 MLD SWPS -2 Near Saraf Sump Well	2.3 MLD	• Land yet not received from Nagar Palika
	4.6 MLD SWPS-3 at Pamana Taal	4.6 MLD	• Work in progress
	10 MLD SWPS-4 at Main Ginani	10 MLD	• Work in progress
	10 MLD SWPS-5 Near BSNL office	10 MLD	• Work in progress
	1.1 MLD SWPS -6 Near Hanuman Park	1.1 MLD	• Work in progress
	RWR Near NH-11	30000KL	• Work in progress
	RWR Near Sardarshahar Megha Highway	30000KL	• Work in progress

Contract description	Cumulative Progress of works up to 31.03.2024		
Date of Start- 23.02.2023 Cumulative Physical Progress- 22.00 % Stipulated Date of completion of Design Build- 23.08.2024	RWR at Forest Land	30000KL	• Forest Clearance Awaited
	RCC pipeline	0.960KM	• Laid: 0.000 Km
	DI Pipes (Pumping Main)	10.14KM	• Laid: 7.692 Km
	For Road Cutting & Restoration-		
	Road cutting	Road restoration Base Layer	Road restoration Top Layer
	• NA	NA	NA
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	NA	NA	NA

Town: Barmer (Wastewater) Sub Project

Contract description	Cumulative Progress of works up to 31.03.2024		
Package No.: RSTDSP/BAR-BLT/WS-WW/01 Lot No.: RSTDSP/BAR/WW/01 Works under package- Construction of Works of Sewer Network with House connections, and Up-gradation of existing 10 MLD Sewage Treatment Plant, WSP and all allied Works and operation services of the Upgradation units of STP for 10 years at Barmer Name of Contractor- M/s GCKC Projects and Works Pvt. Ltd Contract type- Design, Build and Operate Date of Start- 26-07-2023 Cumulative Physical Progress- 4.21% Stipulated Date of completion of Design Build- 23-01-2026	Wastewater Work:		
	Item	Scope	Progress
	STP 10 MLD(Up-gradation)	1 No's	Process design and drawing submitted to PMCBC
	CWR (500KL)	1 No's	• Work not started
	TEER (OSHR1000KL)	1 No's	• Work not started
	Pump house Building		• Work not started
	350mm RCC NP4 Pipe	0.926 Km.	• Work not started
	400mm RCC NP4 Pipe	1.480 Km.	• Work not started
	450mm RCC NP4 Pipe	0.531Km	• Work not started
	600mm RCC NP4 Pipe	7.751Km	• Laid: 1.982 Km
	200mm Dia HDPE Pipe IS 14333	10.00Km	• Work not started
	110mm PVC-U Pipe	59.803Km	• Work not started
	160mm PVC-U Pipe	25.630Km	• Work not started
	200mm PVC- U Pipe	0.082Km	• Work not started
	Manholes (All types)	3219 Nos.	• Installation: 47
	Inspection Chamber	11391 Nos.	• Work not started
	HDPE Pipe	1.51 Km	• Work not started
	600mm Dia 12mm Thick MS casing pipe	0.075km	• Work not started
	900mm Dia 12mm Thick MS casing pipe (NH crossing RCC NP4 Jacking Pipe)	0.075km	• Work not started
	1200mm Dia Jacking Pipe (NH crossing RCC NP4 Jacking Pipe)	0.075km	• Work not started
	400mm Dia RCC Jacking pipe	0.075km	• Work not started
	600mm Dia RCC Jacking Pipe	0.150km	• Work not started
	For Road Cutting & Restoration-		
	Road cutting	Road restoration Base Layer	Road restoration Top Layer
	• 1.965 km	0.073 km	0.073 km
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	CRMC Building – 01 (Mahaveer Nagar)	1 Nos.	Vetting drawing awaited

Town: Balotra (Water Supply & Wastewater) Sub Project

Contract description	Cumulative Progress of works up to 31.03.2024		
Package No.: RSTDSP/BAR-BLT/WS-WW/01 Lot No.: RSTDSP/BLT/WS-WW/01 Works under package- Construction of Works of Water Supply Distribution Network Improvements with house service connections for nonrevenue water reduction and continuous water supply and providing Sewer Network with House connections and all allied Works and operation services of The entire water supply system for 10 years at Balotra Name of Contractor- M/s GCKC Projects and Works Pvt. Ltd. Contract type- Design, Build and Operate Date of Start- 26-07-2023 Cumulative Physical Progress- 2% Stipulated Date of completion of Design Build- 23-01-2026	Water Supply Work:		
	Item	Scope	Progress
	HDPE Pipe	440.72 Km.	• Work not started
	DI Pipe K-7	2.65 Km.	• Work not started
	DI Pipe K-9	8.38 Km.	• Work not started
	House Service connection	18269 Nos.	• Work not started
	Domestic Water meter	18269 Nos.	• Work not started
	No. of DMAs	21	• Work not started
	Wastewater Work:		
	200 mm DWC Pipe	94.437 Km.	• Work not started
	250 mm DWC Pipe	0.927 Km.	• Work not started
	350mm RCC NP4 Pipe	0.130 Km.	• Work not started
	900mm RCC NP4 Pipe	0.500 Km.	• Work not started
	PVC-U pipe	52.20 Km.	• Work not started
	Manholes (All types)	7298 Nos.	• Work not started
	Inspection Chamber	6960 Nos.	• Work not started
	For Road Cutting & Restoration-		
	Road cutting	Road restoration Base Layer	Road restoration Top Layer
	• NA	NA	NA
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	CRMC Building – 01 (Samadari Road)	1 Nos.	Finishing work is in progress.
	CRMC Building – 02 (Luni PHED Head works Campus)	1 Nos.	Structure work completed. Internal brick work in progress.
	MCC	1 Nos.	Structure work completed. Internal brick masonry work in progress.
	PLC SCADA		

Town: Sagwara (City Beautification) Sub project

Contract description	Cumulative Progress of works up to 31.03.2024		
Package no - RSTDSP/SGR/CITYBF/01 Works under package- City Beautification works in Sagwara Name of Contractor- M/s DB Infratech, Mumbai Contract type- Design, Build and Operate Date of Start- 22-09-2023	Sagwara City Beautification:		
	Item	Scope	Progress
	4. Development of Masaniya Lake		
	Improvement of lakes	5 Nos.	Jungle Clearance Work in Progress.
	Development of Jetty	2 Nos.	Work not started
	Development of existing Deck-	1nos.	Work not started
	Installation of decorative fountains	5 Nos	Work not started

Contract description	Cumulative Progress of works up to 31.03.2024		
Cumulative Physical Progress- 0.7% Stipulated Date of completion of Design Build- 22-03-2025	Lighting, beautification, landscaping and providing streetfurniture in the lakefront of Lohariya Lake, Gamera Lake-01, Gamera Lake -02 and HariyalaLake..		Work not started
	Improvement of interlinking channel for lakes	2.1 km	Work not started
	Plantation	60,000 plants	Work not started
	Development of Playground in including Tennis Court, Volleyball Court, Soccer ground, running track,	12287 sq. m,	Work not started
	Construction of Public Toile	3 Nos	Work not started
	Development of Walk way around Lohariya Lake, Gamera Lake-01, Gamera Lake -02 and Hariyala Lake	Around 5 lakes	Work not started
	For Road Cutting & Restoration-		
	Road cutting	Road restoration Base Layer	Road restoration Top Layer
	• NA	NA	NA
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	NA	NA	NA

Town: Jaisalmer (City Beautification) Sub project

Contract description	Cumulative Progress of works up to 31.03.2024		
Package no - RSTDSP/JSL/CITYBF/01 Works under package- City Beautification works at Jaisalmer Name of Contractor- M/s DB Infratech, Mumbai Contract type- Design, Build and Operate Date of Start- 22-09-2023 Cumulative Physical Progress- 0.5% Stipulated Date of completion of Design Build- 22-03-2025	Gadisar Lake Beautification		
	Item	Scope	Progress
	Development of Access and Parking area:	1500 Sq.m	0.50% Jungle Clearance Approved Drawing Awaited
	Road paving – Parking -		
	Redevelopment of Upper pal of Gadisar Lake.	750 m	• Work yet to start
	Ground Stabilization	750m	
	Slope retention & Beautification of Upper Pal-		
	Redevelopment mud track at upper pal:	6.00 x 750 m	• Work yet to start
	Redevelopment of walkway at upper pal:	6.50 x 750 m	• Work yet to start
	Development of green buffer at upper pal-	2.5 x 750 m	• Work yet to start
	Drainage	450 mm x 750	• Work yet to start
		450 x 283.5 m	
	For Road Cutting & Restoration-		
	Road cutting	Road restoration Base Layer	Road restoration Top Layer
	• NA	NA	NA
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	NA	NA	NA

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

10. **Change in Scope of works and/or Location of Project Components.** During review of design there occurred some changes in scope of works and/or location of project components. These changes are being reported through updated IEEs. Such changes up to reporting period are listed in **Table 5** below.

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

S. No.	Name of Town	Change in Scope		Change in Location	
		Original scope as per Updated IEE	Change in scope	Original location As per Draft IEE	Change in location
1	Bharatpur WW	Sewer Network 81.53 km	-	-	-
		Pumping Main 1870 m	-	-	-
		SPS-1 0.81 MLD	-	-	-
		SPS-2 1.64 MLD	-	-	-
		SPS-3 2.23 MLD	-	-	-
		Sewage Treatment Plant (STP) 9.4 MLD	-	-	-
		FSSM works	-	-	-
2	Bundi WS&WW	Rapid Gravity Filter Water Treatment Plant (WTP) 8MLD	-	-	-
		Transmission line 1193 m	-	-	-
		Distribution System 30.884 km	-	-	-
		Clear Water Reservoir (CWR) 1200 kL	-	Nainwa Raod, PHED campus	Relocated in same Nainwa Road, PHED Campus
		Sewage Treatment Plant (STP) 6.5 MLD	-	-	-
		FSSM works			
3	Bundi Drainage	Bundi bypass - Rani ji ki Baori - Lanka gate - ICE factory to UIDSMT Nalla Length: 2.693	-	-	-
		Khoja gate to ice factory Length: 0.407 km	-	-	-
		Gurudwara Devpura to Nanak Puliya Tiraha. Length:4.008 km	-	-	-
		Jait Sagar Nallah to Devpura Length:5.900 Km	-	-	-
		Agarwal Dharamshala to highway nalla on Silor road Length:1.210 Km	-	-	-
4	Bhawani Mandi Drainage	drains proposed for Re-Design / upgradation of Drains- 7951 meters Construction of new drains-5035	-	-	-

5	Bharatpur city Beautification	Development & Beautification of Saligram kund-1 Kund	-	-	-
		Development & Beautification of Brijendra Bihari kund.-1 Kund	-	-	-
		Development & Beautification of Nehru park-1 Nos.	-	-	-
		Façade Lighting of City Gates_ 10 Nos.	-	-	-
		Conservation & Redevelopment of Town Hall Campus- 1 Nos	-	-	-
		Façade Lighting & Illumination of Laxman Mandir, Ganga Mandir & Jama Masjid	-	-	-
6	Nawalgarh Drainage	Storm Water Pumping station (SWPS) of 18.68 MLD	-	-	-
		Collection Chamber-3 Nos.	-	-	-
		Storm water collection pond – 1 Nos.	-	-	-
		Rising Mains: laying of DI K-9 pipe of 1.75 km with diameter 600m Gravity Main: NP 4 pipe of 3.4 km of diameter 500-600 mm;	-	-	-
7	Dungarpur WS&WW	Intake – cum – raw water pump house 3.1 MLD	Construction of New intake well dropped from scope and refurbishment of existing Intake well is proposed	-	-
		Construction of one CRMC building	A new CRMC building is added thus now 2 CRMCs are there	-	-
		Tube Wells: Rehabilitation: 02 nos. of existing tube wells and 2 nos of existing open well	-	-	-
		Raw Water Reservoir (RWR) 550 kL	Associated Facility, Already taken up by PHED in other scheme	-	-
		New Raw water pump house: complete pumping system to feed H/Ws	-	-	-

		Raw water Rising mains: 9.19 km	Length of Raw Water Rising Mains increased from 9.19 km to 13.75 km.	-	-
		WTPs: Refurbishment Udaivilas - 4.54 MLD and Bori RGF (3.25MLD)	-	-	-
		Pump houses: Refurbishment: Existing 7 Pump houses	-	-	-
		Clear Water Pump Houses with Chlorination system: New 5 nos.	-	-	-
		Clear water Rising mains: 13.74 km	Length of clear water rising main decreased from 13.74 km to 9.240 km.	-	-
		Clear Water Reservoirs (CWRs): New 2 nos of CWRs of capacities of 550 KL and 600 KL	-	-	-
		OHSRs, CWRs: Refurbishment: Existing raw water storage (235 KL), Existing 4.54 MLD (RGF) & 3.25 MLD (RGF) WTPs, Existing 4 nos. CWRs of 325, 325, 263 and 272 KL capacity, Existing SRs (8nos. ESRs & 4 nos. GLSRs)	-	-	-
		Distribution Network: New 160.29 km Length	Length of Distribution Network reduced from 160.29 km to 153.39 km	-	-
		CRMCs and MCC: New: CRMC- 2 nos. MCC- 1 no.	-	-	-
		Wastewater			

		Sewer Collection networks: New Sewer Collection networks: 63.79 km 1. RCC pipes– 2.50 Kms. 2. HDPE DWC SN 8 pipe – 46.80 Kms. 3. HDPE pipes– 2.18 Kms	-	-	-
		Sewage Pumping Station: New Two numbers of SPS of 3.0, 3.0 and one MWPS of 0.25 MLD capacities	-	-	-
		Rising mains: Rising mains for pumping sewers- 7300 m (DI K-9 pipes of following details- 400 mm dia- 2700 m 400 mm dia- 800 m 150 mm dia- 3800 m)	-	-	-
		Sewage Treatment plant (STP): New 4 MLD	-	-	-
		FSSM works: Desludging of septage from household pits/ septic tanks, transportation & discharge to STP	-	-	-
8	Sagwara WS&WW	CWR and pump house: New CWR of 1200 KL and pump house	-	-	-
		water distribution pumping station with variable frequency drive pumps: 2 Nos.	-	-	-
		Transmission mains and Feeder Mains: 9.43 km (Dia ranging from 100 mm to 350 mm)	-	-	-
		Distribution Network: 114.85 Kms (Dia ranging from 75 mm to 400 mm)	-	-	-
		Refurbishment of existing OHSRs, CWRs/GLSRs/Tube wells and Pump houses: 1 Nasiya Ji OHSR-560 kl 2 Suwaron Ka Dungara (Main PHED Campus)	-	-	-

		GLSR-202 kl 3 Sindhi Colony OHSR-225 kl 4 Hospital Colony (Only for Hospital) OHSR-100 kl 5 Gamathwara Tabiyad basti OHSR-400 kl 6 Indra Colony OHSR-400 kl Existing RCC CWR (337KL) Existing Tube wells (6 nos.)			
		CRMC-1 No. MCC-1 No.	-	-	-
		Wastewater System			
		Sewage Treatment plant (STP): New - STP of 3.6 MLD	-	-	-
		Sewage Pumping Station (SPS): New SPS 1 MLD	-	-	-
		Rising Main: 1.95 KM of dia 150 mm of DI K-9	-	-	-
		FSSM: Truck mounted mobile desludging equipment	-	-	-
9	Nokha WS&WW	Construction of 1 nos. of SPS (4MLD) near stadium, Zone -2	-	-	-
		Construction of 2 nos. of STPs with provision of treated effluent storage pond for reuse as per following details- 5 MLD near Charkara Village Zone - 1 with co-treatment of sludge) 7 MLD near Madiya Village Zone - 3	-	-	-
		Rising Main for Pumping the Sewage From SPS near Stadium to existing MH Approx. length = 2616 m, dia=200 mm of DI K9 pipes.	-	-	-
		Sewer Collection networks RCC pipes NP4 (600mm) –0.941 km, RCC Pipe NP 4 (900 mm Dia)- 6.75 KM Total length- 7.69 KM	-	-	-

		20.0 km pipe networks for distribution of treated effluent for reuse such as in agriculture- Material- HDPE PE-100/PN6 200 dia- 10 km 250 dia- 10 km	-	-	-
		Procurement of desludging equipment with 4000 lit tank capacity for collection of faecal sludge and septage from 13 wards	-	-	-
		Water Supply			
		Construction of 3 nos of CWRs have been proposed with following capacities and at below mentioned locations: - Raisar HW (1100 KLD) - AEn office at Navali Gate (150 KLD) - Ranarao HW (500 KLD)	-	-	-
		Construction of 5 nos. of clear water pump houses with chlorination system at following locations - - Raisar Headworks - A.En campus, - Ranarao, - Teja Mandir and Bagdi headworks	-	-	-
		Transmission mains Length: approx. 18 km Material: DI K-9 Pipe Diameter: 150 mm to 400 mm	-	-	-
		Distribution Network Length: 296.2 Kms Material: HDPE Pipe (295.69 Km) and DI K9 (0.510km) Diameter: 75mm to 315 mm	-	-	-
10	Nathdwara WS	Intake well cum pump house: New - one Capacity of intake and pumping house to abstract 11 MLD water	-	-	-

		Raw water main: New 300m length 500 mm diameter MS pipe	-	-	-
		Water Treatment Plant (WTP): New - 11 MLD capacity water treatment plant	-	-	-
		Clear Water Pump House-1 No.	-	-	-
		Clear Water Reservoir (CWR): New 1500 KL with SCADA	-	-	-
		Ground Level Service Reservoir (GLSR): New 1500 KL and 300 KL with SCADA	-	-	-
		Overhead Service Reservoir (OHSR): New 1500 KL and 300 KL with SCADA Rehabilitation of Existing 13 OHSR	-	-	-
		Transmission mains and feeder mains: New Total Length- 17150 m Pipe materials- DI K-9 and DI K-7 Dia of pipes- 100 mm- 450 mm	-	-	-
		Distribution networks: New Total Length- 137.418 km Pipe materials- DI K-7 Dia of pipes- 90-315 mm	-	-	-
		CRMC-2 MCC-1	-	-	-
11	Nimbahera WS	Intake well with pump house: New	-	-	-
		Intake well and pump house of 5.74 MLD.	-	-	-
		Water Treatment Plant (WTP): New 5.74 MLD	-	-	-
		Clear water reservoir (CWR)	-	-	-

		1. 1000 kl with SCADA 2. 750 KL With SCADA			
		Open Wells: New5 nos.	-	-	-
		Transmission Mains- - Material - DI K-9 pipes - Length- 19.574 Kms - Diameter- 250-400 mm Feeder Mains- - Material- DI-K-9 - Length- 7.5 km - Diameter- 150-350 mm	-	-	-
		Water Distribution Network: 137.52 km	-	-	-
		Refurbishment of existing OHSRs, CWRs, Pump houses and Wells: Refurbishment of 8 nos. of existing OHSRs Refurbishment of 3 nos. CWRs and 3 nos. Pump Houses Refurbishment of 28 tube wells and 6 open wells	-	-	-
12	Jodhpur WW	- Refurbishment of existing 7 OHSRs (A.En. Campus- 250 KLx2 nos., Bhaton Ki Basti- 700 KL, Dwarka Colony- 250 KL, Tirupati Nagar- 200 KL, Mohanpura- 450 KL and Jorawarpura- 250 KL) - Refurbishment of existing 8 CWRs	-	-	-
		Rehabilitation of 36 nos.	-	-	-

		of existing tube wells			
		Total Sewer Network Length- 268.77 Km A. Under Nagar Nigam Jodhpur (NNJ) areas- Total sewer network- 123.98 km 1. Replacement including augmentation of sewer- 98.9 km (out of which, augmentation is 24.81 km) 2. Pipe bursting- 3.21 km 3. Cured in Place Pipe (CIPP)- 10.41 km (out of which 1.80 km in trenchless) 4. New sewer- 11.47 km B. Under Jodhpur Development Authority (JoDA) areas- (new sewers) Total sewer network- 144.77 km 5. HDPE DWC SN8 - 128.65 km, 6. RCC pipes–10.68 km, 7. HDPE PE-100 PN-6 (laying with Trenchless Method)–5.44 km	-	-	-
13	Jodhpur Drainage	Nala No 1: Bhairav Nagar Nala Length: 13.10 km Brirav Nagar Nala length increased by 100 metres			
		Nala No 2: Saran Nagar Nala Length: 7.03 km -	-	-	-
14	Ratangarh Drainage	Storm Water Pumping Station (SWPS): 6 Nos	-	-	-

		Rising Mains: DI K-9 pipe of 10.127 km with diameter varying from 150 to 400mm 8.	-	-	-
		9. Gravity Drain: 960 meter length and 600mm diameter of RCC NP4 pipe	-	-	-
		Raw Water Reservoir (RWR) at disposal locations- 3 Nos.	-	-	-
15	Barmer WW	Sewer Collection networks: 47 km length of 200 mm to 800 mm dia including 6 km missing links, 1.5 km trenchless sewer lines	-	-	-
		Sewage Treatment Plant: <i>Upgradation – STP</i> 10 MLD (up-gradation with Hybrid Sub Surface Constructed Wetland Bed for de-nitrification and reduction output BOD and COD)	-	-	-
		Treated wastewater storage tanks; treated water overhead tank having 1000 KL Capacity with 22m staging along with pumping station for reuse of treated water	-	-	-
		FSSM works: Truck mounted mobile desludging equipment	-	-	-
16	Balotra WS&WW	Clear Water Pumping System: - Luni river HWs (Proposed 4 No. pumps). - Samdari road HWs (Proposed 4 No. pumps).	-	-	-
		Transmission line <i>Replacement</i> 8380 m total length to be replaced (150mm to 400mm DI-K-9)	-	-	-

17		Distribution System Replacement Length: 442.10 Kms Material: HDPE Pipe & DI-K-7 Diameter: 75mm to 315 mm Diameter 350mm to 500mm	-	-	-
		Wastewater Work Sewer Collection networks Laying of total 99.11 km length of 200 mm to 350 mm dia including 3.6 km trenchless sewer lines	-	-	-
		FSSM works Truck mounted mobile desludging equipment	-	-	-
	Sagwara City Beautification	Improvement of lakes-5 Nos.	-	-	-
		Development of Jetty-2 Nos. Construction of Public Toile3 Nos.	-	-	-
		Development of existing Deck- 1nos. Development of Walk way around Lohariya Lake, Gameraia Lake-01, Gameraiya Lake -02 and Hariyala Lake	-	-	-
		Installation of decorative fountain-5Nos	-	-	-
		Lighting, beautification, landscaping and providing street furniture in the lakefront of Lohariya Lake, Gameraia Lake-01, Gameraiya Lake -02 and HariyalaLake..	-	-	-
		Improvement of interlinking channel for lakes-2.1 km	-	-	-
		Plantation- A total of 60,000 plants are to be planted under the subproject.	-	-	-

		Development of Playground in 12287 sq. m, including Tennis Court, Volleyball Court, Soccer ground, running track,	-	-	-
18.	Jaisalmer City Beautification	Development of Access and Parking area: Road paving -1500 Sq.m Arking area for 26 cars	-	-	-
		Redevelopment of Upper pal of Gadisar Lake. Ground Stabilization-750 m Slope retention & Beautification of Upper Pal-750m Mud Track	-	-	-
		Redevelopment mud track at upper pal: 6.00 meter wide and 750 m long upper pal	-	-	-
		Redevelopment of walkway at upper pal: 6.50 meter wide and 750 m long upper pal	-	-	-
		Development of green buffer at upper pal-2.5 meter wide and 750 m upper pal	-	-	-
		Drain 450 mm wide and 750 m long along the walkway 450 mm side and 283.5 m length along the parking area	-	-	-

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

11. Under RSTDSP all the statutory compliances are being fulfilled. Environmental regulatory compliances including consents for STP/WTP/Batching plant/ crushers/hot mix plants etc. from Rajasthan State Pollution Control Board (RSPCB) and clearances from other statutory authorities are being obtained before start of construction work. None of the project or its component fall within criteria set under EIA Notification 2006 therefore EIA clearance is not required in any project. Wild Life Act is also not applicable in any subproject in all the 18 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 compliances are given in **Table 6**, status of consents from RSPCB is depicted in **Table 6A**, and the status of compliance of clearance conditions is provided in **Table 7**. Compliance status with environmental loan covenants are depicted in **Table 8**.

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

S.N.	Package number	Name of Town and type of projects	Forest Clearance	Tree Cutting Permission	Permission from State/ National Archaeological dept.	Labor License of contractor And Workmen Compensation (WC) Policy	Permissions for Road Cutting	Permissions for Utility Shifting
	1	2	3	4	5	6	7	8
1.	RSTDSP/ NKH/01	Nokha Water supply & Wastewater Subproject	Not yet required	Not yet required	Not yet required	Labor License valid up to 31.12.2025 Workmen Compensation (WC) Policy valid up to 28.02.2025	Permission obtained for road cutting from SE, PWD, Nokha vide letter no. 2200 on dated 22.09.2023	Under Process
2.	RSTDSP/ JOD/02	Jodhpur Drainage Subproject	Not yet required	Applied for tree cutting permission at bhairav Nalla & RTO Nalla	Not yet required	Labor License valid up to 31.12.2024 Workmen Compensation (WC) Policy valid up to 17.09.2024	Not yet required	Not yet required
3.	RSTDSP/ BHR/WW/ 01	Bharatpur Wastewater subproject	Not yet required	Not yet required	Not yet required	Labor License valid up to 31.12.2024 Workmen Compensation (WC) Policy valid up to 01.05.2025	Not yet required	Not yet required
4.	RSTDSP/ JOD/01	Jodhpur Wastewater subproject	Not yet required	Not yet required	Not yet required	Labor License valid up to 31.12.2024 Workmen Compensation (WC) Policy valid up to 15.01.2025	Not yet required	Under Process
5.	RSTDSP/ DNG-SGW/WS- WW/01	Sagwara Water Supply & Wastewater Subproject	Not yet required	Not yet required	Not yet required	Labor License valid up to 31.12.2024	Not yet required	Not yet required

S.N.	Package number	Name of Town and type of projects	Forest Clearance	Tree Cutting Permission	Permission from State/ National Archaeological dept.	Labor License of contractor And Workmen Compensation (WC) Policy	Permissions for Road Cutting	Permissions for Utility Shifting
	1	2	3	4	5	6	7	8
						Workmen Compensation (WC) Policy valid up to 06.01.2025		
6.		Dungarpur Water Supply & Wastewater Subprojects	Not yet required	Not yet required	Not yet required	Labor License valid up to 31.12.2024 Workmen Compensation (WC) Policy valid up to 06.01.2025	Not yet required	Not yet required
7.	RSTDSP/ 3 towns/ WS-WW/ /01	Bundi Water supply & Wastewater Subproject	Not yet required	Permission for tree cutting is obtained from Tehsildar office vide letter no.Rajasv/2023 /716 on dated 11.08.2023	Not yet required	Labor License valid up to 31.12.2024 Workmen Compensation (WC) Policy valid up to 08.12.2024	Not yet required	Not yet required
8.		Nathdwara Water Supply Subproject	Applied vide proposal No. FP/RJ/WATER/44428 5/2023 CAF No.: CAF/1 39953/2023 S/W No.: SW/14 3602/2023	Not yet required	Not yet required	Labor License valid up to 31.12.2024 Workmen Compensation (WC) Policy valid up to 08.12.2024	Not yet required	Not yet required

S.N.	Package number	Name of Town and type of projects	Forest Clearance	Tree Cutting Permission	Permission from State/ National Archaeological dept.	Labor License of contractor And Workmen Compensation (WC) Policy	Permissions for Road Cutting	Permissions for Utility Shifting
	1	2	3	4	5	6	7	8
			Submitted on 20.11.2023 Pending at DFO due to EDS by Nodal Officer					
9.		Nimbahera Water Supply Subproject	Not yet required	Permission for tree cutting is obtained from Tehsildar office vide letter no.Rajasv/2024 /31 on dated 05.01.2024	Not yet required	Labor License valid up to 31.12.2024 Workmen Compensation (WC) Policy valid up to 08.12.2024	Not yet required	Not yet required
10.	RSTDSP/ 4 towns/ DR/01	Bundi Drainage Subproject	Not yet required	Not yet required	Not yet required	Labor License not required: Undertaking submitted by contractor that the no. of labours deployed are less than 50. Workmen Compensation (WC) Policy valid up to 04.12.2024	Not yet required	Not yet required
11.		Bhawani Mandi Drainage Subproject	Not yet required	Not yet required	Not yet required	Labor License not required: Undertaking submitted by contractor that the no. of labours deployed are less than 50.	Not yet required	Not yet required

S.N.	Package number	Name of Town and type of projects	Forest Clearance	Tree Cutting Permission	Permission from State/ National Archaeological dept.	Labor License of contractor And Workmen Compensation (WC) Policy	Permissions for Road Cutting	Permissions for Utility Shifting
	1	2	3	4	5	6	7	8
						Workmen Compensation (WC) Policy valid up to 04.12.2024		
12.		Ratangarh Drainage Subproject	Applied vide proposal No. FP/RJ/OTHERS/43874 6/2023 CAF No.: CAF/13500 8/2023 S/W No.: SW/13846 6/2023 Submitted on 31.07.2023 Pending at Nodal Officer due to EDS by State Secretary	Not yet required	Not yet required	Labor License not required: Undertaking submitted by contractor that the no. of labours deployed are less than 50. Workmen Compensation (WC) Policy valid up to 04.12.2024	Not yet required	Not yet required
13.		Nawalgrh Drainage Subproject	Not yet required	Not yet required	Not yet required	Labor License not required: Undertaking submitted by contractor that the no. of labours deployed are less than 50.	Not yet required	Not yet required

S.N.	Package number	Name of Town and type of projects	Forest Clearance	Tree Cutting Permission	Permission from State/ National Archaeological dept.	Labor License of contractor And Workmen Compensation (WC) Policy	Permissions for Road Cutting	Permissions for Utility Shifting
	1	2	3	4	5	6	7	8
						Workmen Compensation (WC) Policy valid up to 04.12.2024		
14.	RSTDSP/ BHR/CTY BF/01	Bharatpur City Beautification subproject	Not yet required	Not yet required	Permission obtained vide letter no. पु. स. /तक./स्मा- /पीएम/(102)3/ 75/2023/7170 Dated 31.05.2023 Permission Obtained for town hall Repairing vide letter no. पु. स. /स.प्रा./23/11612 Dated 24.08.2023	Labor License valid up to 31.12.2024 Workmen Compensation (WC) Policy valid up to 02.05.2024	Not yet required	Not yet required
15.	RSTDSP/ BAR-BLT/WS-WW/01	Barmer Wastewater Subproject	Not yet required	Not yet required	Not yet required	Labor License valid up to 31.12.2024 Workmen Compensation (WC) Policy valid up to 14.07.2024	Not yet required	Not yet required
16.		Balotra Water supply & Wastewater Subproject	Not yet required	Not yet required	Not yet required	Labor License valid up to 31.12.2024	Not yet required	Not yet required

S.N.	Package number	Name of Town and type of projects	Forest Clearance	Tree Cutting Permission	Permission from State/ National Archaeological dept.	Labor License of contractor And Workmen Compensation (WC) Policy	Permissions for Road Cutting	Permissions for Utility Shifting
	1	2	3	4	5	6	7	8
						Workmen Compensation (WC) Policy valid up to 14.07.2024		
17.	RSTDSP/ JSL/CTY BF/01	Jaisalmer City Beautification Subproject	Not yet required	Not yet required	Not yet required	Labor License valid up to 31.12.2024 Workmen Compensation (WC) Policy valid up to 25.10.2024	Not yet required	Not yet required
18.	RSTDSP/ SGR/CTY BF/01	Sagwara City Beautification Subproject	Not yet required	Not yet required	Not yet required	Labor License valid up to 31.12.2024 Workmen Compensation (WC) Policy valid up to 25.10.2024	Not yet required	Not yet required

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

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

S.No.	Town & Type of works	Capacity of STP	Capacity of WTP	Location	Status of CTE
New Construction works of STPs/WTPs					
1	Nokha (Water Supply & Wastewater Subproject)	5 MLD	-	Near Charkara Village	CTE applied and status pending at RSPCB
2	Nokha (Water Supply & Wastewater Subproject)	7 MLD	-	Madiya Village	Land issue CTE yet to be applied
3	Bharatpur (Wastewater Subproject)	9.4 MLD	-	Nagla Gopal near Ikran Village	CTE issued and valid from 21.09.2023 to 31.08.2028
4	Jodhpur (Wastewater Subproject)	5 MLD	-	Khokhariya Village	Design not finalised CTE yet to be applied
5	Sagwara (Water Supply & Wastewater Subproject)	3.6 MLD	-	near BSNL Telephone Exchange Office / Central Jail, near Banori	CTE applied and status pending at RSPCB
6	Dungarpur (Water Supply & Wastewater Subproject)	4 MLD	-	Near Do river (Do Nadi) on Udaipur road	CTE yet to be applied
7	Bundi (Water Supply & Wastewater Subproject)	6.5 MLD	8 MLD	Existing STP campus at Ramgunj Balaji.	CTE for 6.5 MLD STP issued and valid from 10.10.2023 to 30.09.2028 & CTE for 8 MLD WTP applied on dated 11.03.2024.
8	Nathdwara (Water Supply Subproject)	-	11 MLD	Existing WTP campus at Nandsamand	CTE obtained and valid from 03.01.2024 to 31.12.2028
9	Nimbahera (Water Supply Subproject)	-	5.74 MLD	PHED Campus near Gambhiri Dam, vill. Arania Joshi	CTE obtained and valid from 20.12.2023 to 30.11.2028
Upgradation/Rehabilitation works of STPs					
10	Barmer (Wastewater Subproject)	10 MLD	-	Near Kurla Village, Barmer	CTE obtained and valid from 02.02.2022 to 31.01.2027; CTO obtained and valid from 01.12.2022 to 30.11.2027

Table 7: Compliance of Clearance Conditions

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

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
TOWN WISE SPECIFIC CONDITIONS FOR BELOW MENTIONED CONSENTS OF STP'S		
9.4 MLD STP, Bharatpur	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs.2600 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 obtained Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 150 KVA	Application for DG set under Air Act shall be done before installation of DG set- presently DG set is not being installed
3.6 MLD STP, Sagwara	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs.1150 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 obtained Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 150 KVA	Application for DG set under Air Act shall be done before installation of DG set- presently DG set is not being installed
6.5 MLD STP, Bundi	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs.1540 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 obtained Consent to Establish under Air(Prevention & Control of Pollution), Act, 1981 for D.G. Set of 500 KVA	Application for DG set under Air Act shall be done before installation of DG set- presently DG set is not being installed
10 MLD STP, Barmer	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs.815.52 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
General conditions included in Consent to Establish of WTPs		
All WTPs	That the provisions of EIA notification 14/09/2006 by MoEF shall be strictly followed and the unit shall obtain Environmental Clearance under 8(a) of the aforesaid notification if required and the sole responsibility of the same shall lie on the project proponent.	Not applicable
	That this consent to establish is issued to the unit on the basis of documents submitted by the applicant, if any discrepancy is found in the document/facts submitted by the unit then the applicant shall be liable for legal action in accordance with provisions of law.	Noted

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
	That no industrial trade effluent i.e. wastewater from water re-circulation system, shall be discharged inside/outside the premises. The entire process water shall be re-circulated with the processes through proposed settling tanks	Complied- The entire process water shall be re-circulated with the processes through proposed settling tanks, no any discharge from WTP shall be done
	That the back-wash water shall be treated through adequately design treatment system and should be completely recycled into the process thus maintaining zero discharge inside and outside the premises	Complied- The entire process water shall be re-circulated with the processes through proposed settling tanks, no any discharge from WTP shall be done
	That the domestic effluent shall be disposed off in soak pits through properly designed septic tanks	Noted and shall be complied with during detail design
	That no source of air emission shall be permitted under this consent, unit shall apply for separate consent to establish under the provisions of Air Act-1981 if there is proposal for any source of air emission	DG set may be only source of air pollution in WTP. Application for DG set under Air Act shall be done before installation of DG set- presently DG set is not being installed
	All the conditions and instructions as provided in the General conditions for Consent to establish/consent to operate under Water (Prevention & Control of Pollution) Act -1974 shall be complied with strictly	Noted and shall be complied with
	That rain water harvesting system shall be provided to harness rain water for domestic purposes & that the industry shall not dig new well / tube well without prior permission from the competent authority	Provision for rain water harvesting system is taken in project cost- shall be complied during detail design
	That the industry shall ensure that noise from the unit does not exceed the prescribed noise standards for industrial area i.e. 75 dB(A) Leq during day time and 70 dB(A) Leq during night time to meet the prescribed ambient noise standards. Day time is reckoned in between 6 A.M. and 9 P.M. and night time is reckoned between 9 P.M. to 6 A.M.	Being Complied- Quarterly environmental monitoring was done at WTP premises. Recent noise quality measurements shows that noise level is within prescribed limits
	That the unit shall maintain plantation at least in the 33% of total area within the unit premises	Noted and shall be complied during detail design
	That the consent is valid subject to fulfillment of all the other statutory requirements in other Laws/Acts/Rules as applicable.	Noted
	That this consent is not an evidence for ascertaining the title of land	Noted
	That this consent is only for environment purpose not be liable for any other purpose.	Noted

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
	That unit shall comply with standards, with respect to drinking water, as prescribed by the Bureau of Indian Standards in IS 10500-2012 as amended till date.	Design standards of WTP are as per applicable norms of CPHEEO
	That the unit shall apply for renewal of consent at least 120 days in advance prior to expiry date of this consent letter else additional fee shall have to be deposited in accordance with the Rajasthan Water & Air (Prevention & Control of Pollution) (Amendment) Rules 2016	Noted and shall be complied with
TOWN WISE SPECIFIC CONDITIONS FOR BELOW MENTIONED CONSENTS OF WTP		
8 MLD WTP, Bundi	That this consent is being issued to EE, PHED for Operating of Water Treatment Plant of capacity 8 MLD at PHED Campus Jakhmund, Bundi. In case of any increase in capacity or addition/ modification/ alteration/ or change in product mix or process or raw material or fuel, the project proponent is required to obtain fresh consent to establish from the Board.	Noted and shall be complied if there is any change in capacity or addition/ modification/ alteration/ or change in product mix or process or raw material or fuel- not applicable at present
	That this Consent to Establish is valid for Water Treatment Plant (with recycling system) for a investment of 514 lakh under 'Orange' category. any change in production & its capacity unit has to seek prior consent to establish/operate from the State Board	Noted and shall be complied if there is any such change- not applicable at present
	That this consent is subject to any order or direction from any Court of the competent jurisdiction	Noted
11 MLD WTP, Nathdwara	That this consent is being issued to EE, PHED for Operating of Water Treatment Plant of capacity 11.0 MLD at Existing WTP campus at Nandsamand Nathdwara. In case of any increase in capacity or addition/ modification/ alteration/ or change in product mix or process or raw material or fuel, the project proponent is required to obtain fresh consent to establish from the Board.	Noted and shall be complied if there is any change in capacity or addition/ modification/ alteration/ or change in product mix or process or raw material or fuel- not applicable at present
	That this Consent to Establish is valid for Water Treatment Plant (with recycling system) for a investment of Rs. 707 lakh under 'Orange' category. any change in production & its capacity unit has to seek prior consent to establish/operate from the State Board	Noted and shall be complied if there is any such change- not applicable at present
	That Project Proponent obtained 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

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
5.74 MLD WTP, Nimbahera	That this consent is being issued to EE, PHED for Operating of Water Treatment Plant of capacity 5.74 MLD at PHED Campus near Gambhiri Dam, village Arania Joshi. In case of any increase in capacity or addition/ modification/ alteration/ or change in product mix or process or raw material or fuel, the project proponent is required to obtain fresh consent to establish from the Board.	Noted and shall be complied if there is any change in capacity or addition/ modification/ alteration/ or change in product mix or process or raw material or fuel- not applicable at present
	That this Consent to Establish is valid for Water Treatment Plant (with recycling system) for a investment of Rs. 353 lakhs under 'Orange' category. any change in production & its capacity unit has to seek prior consent to establish/operate from the State Board	Noted and shall be complied if there is any such change- not applicable at present
	That Project Proponent obtained 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

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

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

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

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

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

3. COMPLIANCE STATUS WITH THE ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN

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

13. As per IEEs, contractor is required to submit Site Specific EHS Plan (SEMP). SEMP of 17 towns are submitted by the contractor and are under review with PIU & PMU 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 sub-projects are given in **Table 9A to 9E** and overall compliance with EMP in different packages is provided in **Table-10**. Package wise IEE status is provided in **Table11**. Photographs of safeguard compliance is shown in **Appendix 1**, and environmental site visit reports are attached in **Appendix 4**.

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

(Abbreviations of town names- NKH: Nokha, DNG: Dungarpur, SGW: Sagwara, BLT: Balotra, BRT: Bharatpur, JOD: Jodhpur, BAR: Barmer, BUN: Bundi, NTD: Nathdwara, NBH: Nimbahera, NAW: Nawalgarh, BHM: Bhawani Mandi, RAT: Ratangarh, JSL: Jaisalmer)

(Abbreviations of work components-WS: Water Supply, WW: Wastewater, DR: Drainage, CB: City Beautification)

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	(BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable) Status of Compliance																		Responsi bility
		NKH (WS&WW)	DNG (WS&WW)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
Sewerage Treatment Plant- Odour nuisance and aesthetics: - Provide a green buffer zone of 10-20 m wide all around the STP, and 5-10 m around SPSs, with trees in multi-rows. This will act as a visual screen around the facility and will improve the aesthetic appearance. Treated wastewater shall be used for plantation. - Develop layout plan of STP such that odour generating units (such as sludge / solids handling facilities are located away from the surrounding area with future development potential.	- Buffer zone provided around STP with dense tree plantations - STP layout	C	C	C	C	C	C	C	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contractor / PIU
All Work sites-Tree cutting and site preparation: - Minimize removal of trees by adopting to site condition and with appropriate layout design of STP/SPS or any other site with trees - Obtain prior permission for tree cutting at STP/SPS site or at any other site that may require tree cutting finalized during detailed design - Plant and maintain 3 trees for each tree that is removed	- List of trees to be cut - Tree cutting permission - Compensatory plantations	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor / 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	- Project components away from environmentally sensitive areas - Energy efficient design - ACM management plan 100 % coverage of population with	C	C	C	C	NA	NA	NA	C	C	C	C	NA	NA	NA	NA	NA	NA	NA	DBO Contractor

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	(BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable) Status of Compliance																		Responsi bility
		NKH (WS&WW)	DNG (WS&WW)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
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	improved water supply Use of PPEs by workers																			
Design sewerage system - Non-compliance or non-adherence with the environmental considerations proposed in preliminary designs during detailed design: Ensure compliance with the following during the detailed design: - Locating components and facilities appropriately by avoiding sensitive locations like forests and protected areas (environmentally, socially, and archeologically). - Treatment and reuse of sludge from treatment process; providing a covered shed of adequate space to air dry the processed sludge for at least 15 days at STPs - Designing the entire system to maintain optimal flow and	- Project components away from environmentally sensitive areas - Reuse plan for treated effluent - Energy efficient design - ACM management plan - FSSM plan for areas where sewerage networks are not feasible	C	C	C	C	C	C	C	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contractor / PIU/ CMSC/P MCBC
		BC	BC	BC	BC	BC	BC	BC	BC	BC	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		BC	C	C	C	C	C	C	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		BC	BC	BC	BC	NA	NA	NA	BC	BC	BC	NA	NA	NA	NA	NA	NA	NA	NA	
		BC	BC	BC	BC	BC	NA	BC	BC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	(BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable) Status of Compliance																		Responsi bility
		NKH (WS&WW)	DNG (WS&WW)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
terminal pressure, and optimizing the overall energy usage - Avoiding usage of asbestos containing materials - Reducing the incidence of water borne diseases by providing 100% population including urban poor with potable water supplies - Reuse of treated wastewater from STP for non-potable uses thereby reducing the load in freshwater resources - Adopting a combined approach of sewerage system and faecal sludge and Septage management to cover 100% population of the town with safe collection, conveyance and treatment of sewage generated in the town Provision of appropriate personal protection equipment to the workers and staff																				
Seismic sensitivity - Damage to infrastructure and potential risks: project area in moderate earthquake risk zone (Zone II): Designs of project component structures shall comply with relevant codes of design such as Bureau of Indian Standard (BIS) specifications for earthquake resistant design (IS: 1893: Criteria for earthquake resistant design of structures).	Earthquake resistant design of project structures	C	C	C	C	C	C	C	C	C	C	c	C	C	C	C	C	C	C	DBO Contractor /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		C	C	BC	BC	NA	NA	NA	BC	BC	BC	NA	NA	NA	NA	NA	NA	NA	NA	DBO contractor /PIU/ PHED

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	(BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable) Status of Compliance																		Responsi bility
		NKH (WS&WW)	DNG (WS&WW)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
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																				
Groundwater contamination: • Prepare a source protection plan for tube wells and open wells • Ensure proper construction of tube wells including casing pipes to prevent water contamination from well spaces, and due to flooding • Measures should be taken to control the open defecation, and to close all unsafe latrines (for example pit latrines). • Awareness programs shall be conducted regarding the sanitation practices and its effect on groundwater quality	Tube wells and open wells	BC	BC	BC	BC	NA	NA	NA	BC	BC	BC	NA	NA	NA	NA	NA	NA	NA	NA	PHED/PI U
Water Treatment Plant (WTP) - Inefficient treatment, treated water characteristic not satisfying the standards: • Design treatment process that is suitable for raw water source characteristics duly considering the seasonal variation in quality if any • Duly consider quality of ground water that will be supplemented for surface water supply variations • Treated water and supplied water at consumer end should meet the drinking water standards all times	• Design parameters of WTP meeting with national standards • Raw water quality test reports • Treated water quality test reports	BC	BC	BC	NA	NA	NA	NA	BC	BC	BC	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contractor / CMSC
Water Treatment Plant (WTP) - Design to prevent pollution due to wastewater and sludge: • Ensure that the following are included in the WTP design: • Back wash water reuse system	• Design of WTP including back wash water recycle • Sludge management from WTP	BC	BC	BC	NA	NA	NA	NA	BC	BC	BC	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contractor /PIU

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	(BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable) Status of Compliance																		Responsi bility
		NKH (WS&WW)	DNG (WS&WW)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
and sludge recovery and disposal system • Back water cycling components: Filter backwash holding tank, recovered water storage tank and pumping for • recycling • Sludge management system components: Gravity thickeners for sludge from clarifiers, mechanical sludge dewatering system, storage facility for dewater desludge • Disposal of sludge at a landfill or the disposal site provided by the ULB																				
WTP, CWRs and STP - Hazardous/ harmful chemicals: • Reduce the use of chemicals in the treatment process to the extent possible (water treatment); provide non-chemical alternatives or easily recoverable and/or reusable chemicals or biocompatible alternatives. • Establish proper handling/ storage/ application system according to the relevant standards, safety precautions and prevent accidental release/spill • Provide leak/ spill detection, collection/ capture and safe disposal facilities such as chlorine absorption and neutralization facility • Provide ventilation, lighting, entry and exit facilities visible and audible alarm facilities to alert chemical/chlorine leak • Facility for isolation in the even to major leakages • Eye wash and shower facility • Personal protection and safety equipment for the operators (masks, oxygen	• Detail design of STP, WTP and CWR • Eye wash and shower facility included in STP design • Emergency response procedure for chemical hazard	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contractor / PMCBC/ CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	(BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable) Status of Compliance																		Responsi bility	
		NKH (WS&WW)	DNG (WS&WW)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)		
cylinders, gloves, etc.,) - Provide training to the staff in safe handling and application of chemicals, material safety, and standard operating procedures and emergency responses - Develop emergency response procedures																					
Clear Water Reservoirs (CWRs) - Hazardous / harmful chemicals: - Establish proper handling / storage / application system according to the relevant standards, safety precautions and prevent accidental release / spill - Provide ventilation, lighting, entry and exit facilities; visible and audible alarm facilities to alert chemical/chlorine leak - Personal protection and safety equipment for the operators (masks, oxygen cylinders, gloves, etc.,) - Provide training to the staff in safe handling and application of chemicals, material safety, and standard operating procedures and emergency responses - Develop emergency response procedures	- Chlorine handling, storage and safety plan - Use of PPEs by workers handling chlorine cylinders - Training records - Emergency response plan	BC	BC	BC	BC	NA	NA	NA	BC	BC	BC	NA	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contractor / PMCBC/ CMSC
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	- Detail design of STP - Eye wash and shower facility included in STP design - Emergency response procedure for chemical hazard	C	C	C	C	C	C	C	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contractor / CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	(BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable) Status of Compliance																		Responsi bility														
		NKH (WS&WW)	DNG (WS&WW)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)															
- 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																																		
Sewage Treatment Plant (STP)- Inefficient sewage treatment, treated effluent characteristics not satisfying the CPCB/RPCB standards: - Ensure that the selected process is appropriate for the town and meets discharge standards and facilitate reuse (Treated effluent should meet the criteria set by RSPCB/CPCB or the following bid specified parameters, whichever are stringent: <table><tr><td>pH</td><td>6.5 – 9.0</td></tr><tr><td>BOD5, mg/l</td><td>≤10</td></tr><tr><td>COD, mg/l</td><td>≤50</td></tr><tr><td>TSS, mg/l</td><td>≤20</td></tr><tr><td>NH4-N, mg/l</td><td><25</td></tr><tr><td>Total nitrogen, mg/l</td><td><10</td></tr><tr><td>Fecal Coliform, MPN/100 ml</td><td><1000</td></tr></table>	pH	6.5 – 9.0	BOD5, mg/l	≤10	COD, mg/l	≤50	TSS, mg/l	≤20	NH4-N, mg/l	<25	Total nitrogen, mg/l	<10	Fecal Coliform, MPN/100 ml	<1000	- BOD at 20°C for 5 days- less than 10 mg/l - Total suspended Solids (TSS)- less than 20 mg/l - Total nitrogen- less than 10 mg/l	C	C	C	C	C	C	C	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contractor / PMCBC/ CMSC
pH	6.5 – 9.0																																	
BOD5, mg/l	≤10																																	
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NH4-N, mg/l	<25																																	
Total nitrogen, mg/l	<10																																	
Fecal Coliform, MPN/100 ml	<1000																																	

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	(BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable) Status of Compliance																		Responsi bility
		NKH (WS&WW)	DNG (WS&WW)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
Change in raw sewage quality - Mixing of industrial effluent with sewage: - No industrial wastewater shall be allowed to dispose into municipal sewers - As there is a risk of potential mixing of industrial waste, no domestic wastewater from industrial units shall be allowed into municipal sewers - Ensure that there is no illegal discharge through manholes or inspection chambers - Conduct public awareness programs; in coordination with RSPCB and CLC. - Conduct regular wastewater quality monitoring (at inlet and at outlet of STP) to ensure that the treated wastewater quality complies with the effluent standards	- Separate sewerage networks for domestic sewage - Outlet parameters as per latest Govt. norms	C	C	C	C	C	C	C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contractor and PIU / PMU
Sewage Treatment Plant (STP)- Use of treated wastewater for reuse applications: - Develop wastewater reuse plan for Town in consultation with CLC as per the Sewerage and Wastewater Policy, 2016. The Reuse Plan shall inter alia include the following: - Identify potential reuse application in Town, and establish quality criteria for each of the use - For applications that use treated wastewater directly (e.g., agriculture), the quality required for such application in safe manner considering health, environment and crop yield concerns shall be ensured; - Prepare a reuse plan for agriculture, if that is the priority use or one of the applications as per the CLC in Town, clearly	- Reuse plan for treated effluent - Outlet parameters as per latest Govt. norms	BC	BC	BC	BC	BC	BC	BC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contractor / PIU/CMS C/ PMCBC *Reuse plan for treated effluent is being prepared for the towns in consultation with ULBs

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	(BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable) Status of Compliance																		Responsi bility
		NKH (WS&WW)	DNG (WS&WW)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
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 and downstream users: - Obtain of consent of RSPCB for discharge of treated wastewater into drains - Conduct a baseline water quality assessment of receiving water body - Regularly monitor the treated wastewater quality at STP and ensure that it meets the discharge standards Monitor water quality periodically during operation phase as per the Environmental Monitoring Plan	- Consent to Establish from RSPCB - Reuse plan of treated effluent - STP effluent-monitoring - Water Quality monitoring of receiving water body	BC	BC	BC	BC	BC	BC	BC	BC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Contractor /PIU *Reuse plan for treated effluent is being prepared for the towns in consultation with ULBs # Will be done during Operation phase of the project.
Sewage Treatment Plant (STP)/WTP- Sludge management and reuse: - Prepare a sludge management plan - Prepare a dried Sludge utilization plan for Town with the help of Agriculture Department /	Reuse plan for treated sludge	BC	BC	BC	BC	BC	BC	BC	BC	NA	BC	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contractor /PIU *Reuse plan for treated Sludge is being prepared for the towns in

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	(BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable) Status of Compliance																		Responsi bility
		NKH (WS&WW)	DNG (WS&WW)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
CLC; plan should also include if any additional processing is required for sludge to use as soil conditioner - Plan should clearly identify various potential uses and demand in Town and surroundings - Establish usage limits, where required, (geographical / crops / type of application / type of soils etc.); adopt international good practice suggested by agencies like World Health Organization (WHO), Food and Agricultural Organization (FAO) of the United Nations. - Identify a landfill / suitable site for disposal of surplus dried sludge - Monitor sludge quality during operation phase as per the Environmental Monitoring Plan, ensure that it meets the quality parameters established by FCO - In case of sludge not meeting the quality parameters, it shall not be used as soil condition, and shall be disposed at appropriate disposal site (if it falls under hazardous category, it shall be disposed as per the Hazardous Waste Management Rules, 2016)																			consultation with ULBs	
Sewage pumping stations - Handling and disposal of accumulated waste at identified disposal sites: - Prepare a waste handling and management plan for the work, considering handling, disposal and occupational and public health safety - Assess the working conditions, develop appropriate working method, and work shall be only conducted under continuous supervision of EHS supervisor	Waste Management Plan as per Solid Waste Management Rules 2016	BC	BC	BC	BC	BC	BC	BC	BC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contractor /PIU

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	(BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable) Status of Compliance																		Responsi bility
		NKH (WS&WW)	DNG (WS&WW)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
- Waste shall not be handled manually; use appropriate equipment - All workers shall be provided with necessary personal protection equipment, including gloves, boots, face / gas masks and oxygen cylinders in handy for emergency use etc.; if gas emission is suspected at any point of time, workers shall use gas masks with oxygen cylinders - Inform surrounding public about the work - Fire control and safety equipment shall be provided at the work site - Waste shall be properly covered during transport - Manage the solid waste as per the Solid Waste Management Rules, 2016																				
Sewage pumping stations - Noise and odour generation from sewage pumping operations, and public and occupational safety: - Provide low noise, efficient pumping systems - Provide dedicated power supply to SPS, if possible, otherwise DG set to be used during power failure, should be soundproof and having acoustic enclosures with low/permitted air emission standards - Design SPS with appropriate retention time, so as not to retain the sewage in the sump for long time to avoid generation of odorous gases - Firm barricades should be provided all round during construction of SPS; - Boundary wall of sufficient height should be provided during operation phase so that	Design of SPS covering all these parameters	BC	BC	BC	BC	BC	BC	BC	BC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contractor /PIU

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	(BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable) Status of Compliance																		Responsi bility
		NKH (WS&WW)	DNG (WS&WW)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
no children/residents can entre in the SPS premises • Plantations should be provided if space available to reduce foul smell of sewer during operation • No worker's camps should be allowed during construction works at SPS site • Entry should be restricted through provision of gate and guard during SPS operation. • Highest Flood Level (HFL) should be used as a basis while deciding on the SPS dimensions. Also, all the prevention methods including buffer capacity secondary tank and alternative power arrangements should be implemented so that sewage does not either leak during power outages or percolate into ground and pollute 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	• Sewer network design covering all these parameters	BC	BC	BC	BC	BC	BC	BC	BC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contractor /PIU/ PMCBC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	(BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable) Status of Compliance																		Responsi bility
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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																				
FSSM - Occupational health and safety issues, and impact on STP process: Conduct detailed survey of the households to be covered with FSSM to design the system to suit the local conditions, such as type of septic tanks and their location in the houses - Create awareness program on the FSSM from collection to treatment system that will be adopted - Design the sewage treatment process duly considering mixing of Septage - Ensure that the FSSM system is completely mechanized no human touch, even accidentally, from collection at household to discharge into STP, and in periodic cleaning of tankers - Demarcate a proper area for cleaning of mobile tankers in STP premises, and ensure that	FSSM plan and design covering all these requirements	BC	BC	BC	BC	BC	BC	BC	BC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contractor

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	(BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable) Status of Compliance																		Responsi bility
		NKH (WS&WW)	DNG (WS&WW)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
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: a. Having excavation observed by a person with archaeological field training; contractor should employ a person with a formal certification course in	• List of ASI/State protected monuments • Chance Finds protocol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	C	NA	NA	DBO Contractor / PIU/ CMSC/ PMCBC
		BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	(BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable) Status of Compliance																		Responsi bility
		NKH (WS&WW)	DNG (WS&WW)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
archaeology from recognized (such as Institute of Archaeology, ASI, Delhi) during the ground excavation activities b. Conduct awareness training to contractor & supervision staff prior to start of excavation; c. Stopping work immediately to allow further investigation if any finds are suspected; Calling in the ASI if a find is suspected, and taking any action they require to ensure its removal or protection in situ																				
Asbestos cement (AC) pipes in existing water supply system & Other locations: clearing, transfer and disposal; work in narrow streets, and interventions in existing AC pipelines - Health impacts due to air borne asbestos if handled unsafely, cut, drilled or broken into pieces: • Develop ACM Management Plan (AMP) that includes identification of hazards, the use of proper safety gear and disposal methods. • (Conduct awareness program on safety during the construction work • Undertake the construction work stretch-wise; excavation, pipe laying and trench refilling should be completed on the same day • (Provide barricades, and deploy security personnel to ensure safe movement of people and also to prevent unnecessary entry and to avoid accidental fall into open trenches • Identify risk of intervention with existing AC pipes. If there is significant risk, implement the AMP strictly that includes identification of hazards, the use	• ACM plan covering all these requirements	BC	BC	BC	BC	NA	NA	NA	BC	BC	BC	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contractor /PIU/ PMCBC/C MSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	(BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable) Status of Compliance																		Responsi bility
		NKH (WS&WW)	DNG (WS&WW)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
of proper safety gear and disposal methods. • Maintain records of AC pipes as per the AMP • Refer to the instructions of the Asbestos Expert																				
Asbestos materials in existing PHED campus- Health impacts due to air borne asbestos if handled unsafely, cut, drilled or broken into pieces: • Conduct risk assessment to determine extent of asbestos materials currently on-site • Coordinate and provide support to the asbestos management service provider on the requirement of sampling, testing and disposing existing asbestos materials • Ensure the selected area for temporary storage is suitable for safe storage of asbestos materials • Incorporate international and national standards considered in designing the temporary storage • Ensure that handling and disposal of asbestos materials are carried out by specially trained service provider/s following Government of India requirements, or in their absence, internationally recognized procedures	• ACM plan covering all these requirements	BC	BC	BC	BC	NA	NA	NA	BC	BC	BC	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contractor /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	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor CMSC and PMCBC

Table 9 B. Pre-Construction Phase

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
Compliance with environmental subproject selection criteria - Environmental impacts due to subproject: Compliance with environmental subproject selection criteria	Compliance with environmental subproject selection criteria	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO Contractor, PIU, CMSC/PMCBC
Environmental monitoring of baseline conditions of air, noise, water and soil - To establish base line environmental conditions: Environmental monitoring through NABL accredited laboratory	Baseline environmental monitoring of ambient air, noise, water and soil conducted	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO contractor
Legal compliance - Environmental legal noncompliance may attract legal actions Failure to obtain necessary consents Permits, NOCs etc. can result to design revisions and /or stoppage of works: - Obtain all consents, clearances (CTE/CTO from RSPCB), permits NOCs etc. before start of construction works - Ensure that all necessary approvals for construction to be obtained by contractor are in place before start of construction - Following consents are required- - Tree cutting-local authority - Storage, handling and transport of hazardous materials- RSPCB - Sand mining, quarries, borrow areas- Department of mines and Geology - Traffic diversion/road cutting-local authority, traffic police - Acknowledge in writing and provide report on compliance all obtained consents, permits, clearance, NOCs etc. Include in detailed design drawings and documents all conditions and provisions; if necessary	List of consents required as per IEE	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO contractor / PIU/Consultants
Utilities - Telephone lines, electric poles and wires, water	List of affected utilities	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor in collaboration with PIU and

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility	
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)		
lines within proposed project area: - Identify and include locations and operators of these utilities in the detailed design documents to prevent unnecessary disruption of services during construction phase; and - Require construction contractors to prepare a contingency plan to include actions to be taken in case of unintentional interruption of services. - Require contractors to prepare spoils management plan	- Utilities contingency plan - Spoil management plan																			with approval of PMU	
Social and Cultural Resources - Ground disturbance can uncover and damage archaeological and historical remains: Develop a protocol for use by the construction contractors in conducting any excavation work, to ensure that any chance finds are recognized, and measures are taken to ensure they are protected and conserved	Chance finds protocol	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ CMSC and PIU
Construction work camps, hot mix plants, stockpile areas, storage areas, and disposal areas.- Disruption to traffic flow and sensitive receptors: - Prioritize areas within or nearest possible vacant space in the project location; - If it is deemed necessary to locate elsewhere, consider sites that will not promote instability and result in destruction of property, vegetation, irrigation, and drinking water supply systems; - Do not consider residential areas; - Take extreme care in selecting sites to avoid direct disposal to water body which will inconvenience the community. - For excess spoil disposal,	- Location plan of Construction work camps, hot mix plants, stockpile areas, storage areas, and disposal areas - Spoil management plan	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ CMSC and PIU

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		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
ensure o site shall be selected preferably from barren, infertile lands. In case agricultural land needs to be selected, written consent from landowners (not lessees) will be obtained; (b) debris disposal site shall be at least 200 m away from surface water bodies; (c) no residential areas shall be located within 50 m downwind side of the site; and (d) site is minimum 250 m away from sensitive locations like settlements, ponds/lakes or other water bodies.																				
Sources of Materials - Extraction of materials can disrupt natural land contours and vegetation resulting in accelerated erosion, disturbance in natural drainage patterns, ponding and water logging, and water pollution: • Prioritize sites already permitted by the Department of Mines and Geology • If other sites are necessary, inform construction contractor that it is their responsibility to verify the suitability of all material sources and to obtain the approval of PMU and • If additional quarries will be required after construction is started, inform construction contractor to obtain a written approval from PIU.	Permission from Govt. for procurement of construction materials	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor to prepare list of approved quarry sites and sources of materials with the approval of PIU
Consents, permits, clearances, NOCs, etc.- Failure to obtain necessary consents, permits, NOCs, etc. can result to design revisions and/or stoppage of works: • Obtain all necessary consents (including CTE for STP from RSPCB), permits, clearance, NOCs, etc. prior to award of civil works. Following consents are	List of consents required as per IEE	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor and PIU and Consultant

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
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																				
Asbestos materials in existing PHED campus & other Locations - Health impacts due to air borne asbestos if handled unsafely, cut, drilled or broken into pieces: - Coordinate and provide support to the asbestos management service provider on the requirement of sampling, testing and disposing existing asbestos material - Coordinate and implement the the construction of the temporary storage per specification of the asbestos management service provider - Provide support to the asbestos management service provider supervising the removal, transport, disposal and documentation of the asbestos materials - Conduct awareness workshops and trainings to stakeholders on the risks of the asbestos materials	ACM plan covering all these requirements	BC	BC	BC	BC	NA	NA	NA	BC	BC	BC	NA	NA	NA	NA	NA	NA	NA	NA	DBO Contractor/PIU/CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
- Maintain records of asbestos materials inventory - Ensure that handling and disposal of asbestos materials are carried out by specially trained service provider/s following Government of India requirements, or in their absence, internationally recognized procedures																				

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

Table 9 C: Construction Phase

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NBH (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
EMP Implementation - Irreversible impact to the environment, workers, and community: Contractor is required to depute a qualified and experienced EHS officer/supervisor for monitoring of EMP implementation measures Project manager and all key workers will be required to undergo EMP implementation including spoils management, Standard operating procedures (SOP) for construction works; occupational health and safety (OH and S), core labor laws, applicable environmental laws, etc.	- EHS officer deputed by contractor - Training for project manager and other key workers conducted in pre-construction phase	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	Construction Contractor/ PIU/ PMCB/ CMSC
Air Quality - Emissions from construction vehicles, equipment, and machinery used for installation of pipelines resulting to dusts and increase in concentration of vehicle-	- Site plan of stockyard for soil, gravel and other construction materials - Covered transport of loose materials	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
related pollutants such as carbon monoxide, sulfur oxides, particulate matter, nitrous oxides, and hydrocarbons: - Plan the work sites properly, and demarcate the sites for stockpiling of, soils, gravel, and other construction materials away from the traffic, vehicle, general worker movement to avoid disturbance of loose materials - Damp down exposed soil and any stockpiled material on site by water sprinkling; - Use tarpaulins to cover sand and other loose material when transported by trucks; - Clean wheels and undercarriage of haul trucks prior to leaving construction site - Don't allow access in the work area except workers to limit soil disturbance and prevent access by barricading and security personnel - Fit all heavy equipment and machinery with air pollution control devices which are operating correctly - contractor's vehicles and equipment should compulsorily have PUC and submit to PIU before deployment at site - Obtain, CTE and CTO for batching plant, hot mix plant, crushers and DG set etc. if specifically established for this project. - If contractor procures any material (such as ready mix concrete, asphalt/macadam, aggregates etc.,) from third	- PUC of vehicles - CTE/CTO of batching plant, hot mix plant, crushers and DG sets - Construction raw materials from authorized sources - Air quality monitoring conducted																			

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
party agencies, contractor shall ensure that such agencies have all necessary clearances / permissions as required under the law; these include CTE/CTO from RSPCB, environmental clearance, etc.; contractor shall collect the copy of these certificates and submit to PIU; PIU will approve the source only after all the certificates are submitted • Conduct air quality monitoring according to the Environmental Management Plan (EMP).																				
Surface water quality - Works in rains/ Mobilization of settled silt materials, and chemical contamination from fuels and lubricants during installation of pipelines can contaminate nearby surface water quality: • Prepare and implement a spoils management plan • Avoid stockpiling of earth fill especially during the monsoon season unless covered by tarpaulins or plastic sheets; • Prioritize re-use of excess spoils and materials in the construction works. If spoils will be disposed, consult with PIU on designated disposal areas; • Inspect all the drainage at construction site/construction camp/labor camp etc. and clear all the drainage lines so that no water stagnation/flooding may occur during heavy rainfall	• Spoils management plan • Stockpiling of soils • Inspection of drainage pattern at stockyard • Monsoon preparedness plan • Emergency preparedness plan	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC/ PMCBC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility	
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)		
- As for a possible avoid trench works and excavation works (pipe laying) during monsoon season to avoid any water logging and accident due to it - If open trenches are not avoidable during monsoon, keep ready all the mitigations measures to avoid water logging such as dewatering pumps and sufficient pipes, traffic assistance, barricades etc. - Inspect and verify all the emergency measures and emergency control system before start of monsoon, keep the emergency response committee on high alert during monsoon/heavy rain fall - Install temporary silt traps or sedimentation basins along the drainage leading to the water bodies; - Place storage areas for fuels and lubricants away from any drainage leading to water bodies; - Dispose any wastes generated by construction activities in designated sites; and - Conduct surface quality inspection according to the Environmental Management Plan (EMP).																					
Surface water quality - Degradation of water quality of dams due to intake works: Select a construction methodology that is least disturbing, and appropriate for the in-situ soil condition, and able to complete the construction work prior to onset of monsoon	- Construction work plan - Work schedule - Safety arrangements - Water quality monitoring	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO contractor/ PIU/ CMSC/ PMCBC *will be complied during execution. Execution not yet started.

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility	
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)		
- Schedule the construction works during low water level period – late winter months to pre monsoon (February – June/July); ensure that works are completed during the same period to prior to onset of monsoon; - Erect temporary barriers to form enclosed construction area with least disturbance - Allow adequate time to settle the distributed solids to prior to pumping out water; only clear/clarified water shall be pumped back into the reservoir; any silt laden water should be pumped to a silt pond - Avoid/minimize use of fuels, chemicals and lubricants; ensure no spillage - Clear the work site after completion at least to pre project conditions, ensure that there are no materials, debris, spills etc., and prior to removal of temporary barriers / coffer dam - Implement work site safety at works in water bodies																					
Noise Levels - Increase in noise level due to earth-moving and excavation equipment, and the transportation of equipment, materials, and people: - Plan activities in consultation with PIU/Consultant so that activities with the greatest potential to generate noise are conducted during periods of the day which will result in least disturbance; - Horns should not be used	- Use of PPEs to reduce impact of sound on workers - Checking of vehicle silencers, noise-reducing mufflers - Noise quality monitoring at sites	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
unless it is necessary to warn other road users or animals of the vehicle's approach; • Minimize noise from construction equipment by using vehicle silencers, fitting jackhammers with noise-reducing mufflers, and portable street barriers the sound impact to surrounding sensitive receptor; and • Maintain maximum sound levels not exceeding 80 decibels (dB A) when measured at a distance of 10 m or more from the vehicle/s. • Periodical monitoring of noise quality as per EMP																				
Landscape and aesthetics - Impacts due to excess excavated earth, excess construction materials, and solid waste such as removed concrete, wood, packaging materials, empty containers, spoils, oils, lubricants, and other similar items: • Prepare and implement spoils management plan • Avoid stockpiling of excess excavated soils; • Coordinate with ULB/PIU for beneficial uses of excess excavated soils or immediately dispose to designated areas; • Recover used oil and lubricants and reuse or remove from the sites; • Manage solid waste according to the following preference hierarchy: reuse, recycling and disposal to designated areas; • Remove all wreckage, rubbish, or temporary	• Spoils management plan • Solid waste management plan • Site observations	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
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 of service and damage to existing infrastructure at specified project location: • Obtain from PIU the list of affected utilities and operators if any; • Prepare a contingency plan to include actions to be done in case of unintentional interruption of service	• List of affected utilities and contingency plan to restore if damaged • Site observations	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC
Ecological Resources – Terrestrial - Loss of vegetation and tree cover: • Minimize removal of vegetation and disallow cutting of trees; • If tree-removal will be required, obtain tree-cutting permit from the concerned department; and • Plant 3 native trees for every one that is removed	• Tree cutting list • Tree cutting permission • Compensatory plantation	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC
Land Use- Environmental Issues due to land use change: The impact due to change in land use will be negligible due to this project	Land documents of sites	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC
Accessibility - Traffic problems and conflicts near project locations and haul road: • Plan sewer line works to minimize traffic disturbance / blockades; as the sewer lines are to be laid in all the roads and streets in the town, work planning is crucial to minimize the	• Work Plan • Traffic Management Plan • Site observations • Project information boards • Prior public consultations by contractor's team	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC

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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	• Accessibility provided during works																			

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maintain the access																				
Socio-Economic – Income. - Impede the access of residents and customers to nearby shops: • Prepare and implement spoils management plan • Contractor to Implement RP and to follow mitigation measures prescribed • Leave spaces for access between mounds of soil; • Provide walkways and metal sheets where required for people; • Increase workforce in front of critical areas such as institutions, place of worship, business establishment, hospitals, and schools; • Consult businesses and institutions regarding operating hours and factoring this in work schedules; and • Provide sign boards for pedestrians to inform nature and duration of construction works and contact numbers for concerns/complaints.	• Spoil management plan • Mitigation measures as per RP and IEE • Prior public consultations by contractor's team with shopkeepers • Project information boards	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC
Socio-Economic Employment - Generation of temporary employment and increase in local revenue: • Employ local labour force, or to the maximum extent possible • Comply with labor laws	Labour records	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor
Occupational Health and Safety - Occupational hazards which can arise during work: • Comply with all national, state and local core labor laws • Following best practice health and safety guidelines:	• Site specific EHS Plan • Work plans • Use of PPEs by workers • Safety signage and information boards • Drinking water and rest sheds	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor

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IFC's General EHS Guidelines¹ and Sector Specific (Sanitation) Guidelines - Develop and implement site-specific occupational health and safety (OH and S) Plan which will include measures such as: a) excluding public from the site; (b) ensuring all workers are provided with and use personal protective equipment like helmet, gumboot, safety belt, gloves, nose musk and ear plugs; (c) OH and S Training for all site personnel; (d) documented procedures to be followed for all site activities; and (e) documentation of work-related accidents; - Conduct work in confine spaces, trenches, and at height with suitable precautions and using standards and safe construction methods; do not adopt adhoc methods; all trenches deeper than 1.5 m shall be provided with safety shoring/braces; and avoid open cutting method for trenches deeper than 3.5 m by adopting trenchless technology - Develop site specific OHS plan for sewage pumping	- First aid facilities at site - Site protection and barricades - Medical and health insurance of workers - Health check-up records of workers - Safety trainings/ orientations records - Solid waste management - Site observations																			

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
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stations works; SPS sites are located in low lying areas with accumulated waste and harmful working conditions • Ensure that qualified first-aid can be provided at all times. Equipped first-aid stations shall be easily accessible throughout the site; • Provide medical insurance coverage for workers; • Secure all installations from unauthorized intrusion and accident risks; • The project area experiences extreme temperature during summer months of April and May, which may affect the health of workers engaged in construction work. Contractor should take necessary measures during summers including the following: - o work schedule should be adjusted to avoid peak temperature hours (12 – 3 PM); (b) provide appropriate shade near the workplace; allow periodic resting and provide adequate water, and (c) provide necessary medicine and facilities to take care of dehydration related health issues • Provide supplies of potable drinking water; • Provide clean eating areas where workers are not exposed to hazardous or noxious substances; • Provide H and S orientation training to all new 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																				

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
workers; • Provide visitor orientation if visitors to the site can gain access to areas where hazardous conditions or substances may be present. Ensure also that visitor/s do not enter hazard areas unescorted; • Ensure the visibility of workers through their use of high visibility vests when working in or walking through heavy equipment operating areas; • Ensure moving equipment is outfitted with audible back-up alarms; • Mark and provide sign boards for hazardous areas such as energized electrical devices and lines, service rooms housing high voltage equipment, and areas for storage and disposal. Signage shall be in accordance with international standards and be well known to, and easily understood by workers, visitors, and the general public as appropriate; • Disallow worker exposure to noise level greater than 85 dB A for a duration of more than 8 hours per day without hearing protection. The use of hearing protection shall be enforced actively. • Conduct regular health check-ups for workers • Provide periodical awareness camps and special trainings for workers for health issues and risks in construction sites • Provide proper solid and liquid waste management																				

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		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
system in workers' campsite, separate from spoils and debris disposal, as their presence can add to existing waste volume at the project sites.																				
Occupational and community health and safety -Hazardous working conditions due to presence of asbestos containing material / AC Pipes in work sites: clearing, transfer and disposal; work in narrow streets, and interventions in existing AC pipelines Health impacts due to air borne asbestos if handled unsafely, cut, drilled or broken into pieces: - Implement the ACM Management Plan (AMP) that includes identification of hazards, the use of proper safety gear and disposal methods. - Conduct awareness program on safety during the construction work - Undertake the construction work stretch-wise; excavation, pipe laying and trench refilling should be completed on the same day - Provide barricades, and deploy security personnel to ensure safe movement of people and also to prevent unnecessary entry and to avoid accidental fall into open trenches - 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	- Site specific EHS Plan - Work plans - Use of PPEs by workers - Safety signage and information boards - Drinking water and rest sheds - First aid facilities at site - Site protection and barricades - Medical and health insurance of workers - Health check-up records of workers - Safety trainings/ orientations records - Solid waste management - Site observations	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
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methods. - Appropriate actions as defined in the Asbestos Management Plan will have to be adhered to - Maintain records of AC pipes as per the AMP																				
Community Health and Safety.- Traffic accidents and vehicle collision with pedestrians during material and waste transportation: - Trench excavation and pipeline works shall be conducted in a safe manner; if the allowing public movement along the work sites (pedestrians or vehicles as the case may be) is likely to cause safety risks, movement should be blocked temporarily and work shall be conducted; in such areas, conducting night work or working in small stretches to avoid blockage of traffic/movement no more than few hours in due consultation with the local community and ULB shall be planned - All trenches deeper than 1.5 m shall be provided with safety shoring/braces; and avoid open cutting method for trenches deeper than 3.5 m by adopting trenchless technology - Survey the surrounding vulnerable buildings for likely issues in structural stability / differential settlement during the excavation works - Provide prior information to the local people about the - Plan routes to avoid times of peak-pedestrian activities. - Liaise with PIU/ULB in	- Work plan - Barricades - Trench safety - Public consultation records with nearby residents - Safety signage and project information boards	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ CMSC

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
identifying high-risk areas on route cards/maps. • Maintain regularly the vehicles and use of manufacturer-approved parts to minimize potentially serious accidents caused by equipment malfunction or premature failure. • Provide road signs and flag persons to warn of on-going trenching activities																				
Safety of sensitive groups (children, elders etc.) and other pedestrians in narrow streets - Trench excavation in narrow streets will pose high risk to children and elders in the locality: • Provide prior information to the local people about the nature and duration of work • Conduct awareness program on safety during the construction work • Undertake the construction work stretch-wise; excavation, pipe laying and trench refilling should be completed on the same day • Provide barricades, and deploy security personnel to ensure safe movement of people and also to prevent unnecessary entry and to avoid accidental fall into open trenches	• Work plan • Barricades • Trench safety • Public consultation records with nearby residents • Safety signage and project information boards	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor
Night Works - Public inconvenience due to traffic diversion, disturbance due to excessive noise and access loss, occupational health and safety issues etc: • Prepare a night work protocol and obtain prior approval from PIU, and strictly implement and report on implementation of	• Night work plan approval from PIU • Noise and illumination monitoring during night works • Public consultations before night works • Workers records	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*	TC*= to be complied when night works will be required. No night work is being conducted. DBO Contractor

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
protocol during the workers; - Contractors should have handheld noise level meter for measurement of noise during night hours - Contractors should have handheld lux meter for the measurement of illumination during night hours - Preferably electrical connection is available for running equipment otherwise soundproof/super silent Diesel Generator set should be available - Sound level should not increase as prescribe by CPCB - Illumination should be as prescribed in protocol - As far as possible ready-mix concrete from batching plant to be used, otherwise the concrete should be prepared away from residential areas and brought to the site - All the noisy activities like hammering, cutting, crushing, running of heavy equipment should be done in daytime and avoided in nighttime - Workers engaged in night works should have adequate rest/sleep in daytime before start of night works - Worker engaged for night works should have previous experience of night works and should be physically fit for such works including clear vision in night. - All the necessary provisions of traffic aids such as traffic signals, road signage,	- First aid and emergency plans for night works - Nearby sensitive receptors - Site restoration after night works																			

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
barricades, cautions boards, traffic diversion boards etc. should be available with fluorescent/retro-reflective arrangements • Workers should be trained before start of night works about risks and hazards of night works and their mitigation measures and should be provided all the protective aids (PPEs) including fluorescent/retro-reflective vests • Horns should not be permitted by equipment and vehicles • Workers should not shout and create noise • First aid and emergency vehicles should be available at site • Emergency preparedness plan should be operative during night works • Old persons and pregnant women and women having small kids should not work in night-time • All the vehicles and equipment being used at night works should have adequate type of silencers/enclosures/mufflers to reduce noise • All the vehicles should be checked for working head lamps, tail lamps, inner lights etc. before start of night works • PIU/CMSC 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																				

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility	
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)		
photographic and video graphic records as well as register the observations. - Night works should be stopped early in the morning at least one hour before start of pedestrian/traffic movement - After completion of night works all the site should be cleaned and maintained obstruction free for daytime movement of vehicles and pedestrians - Drivers and workers should be alert and responsive during night works - All the wages to workers working in night hours should be as per the applicable labour acts - Avoid any nuisance which may create problems to nearby habitants and work peacefully during night hours - Night works should not be conducted near hospitals and during peak seasons such as peak tourist season, students' exam times etc.																					
Work in narrow streets - will pose high risk to children and elders in the locality: - Conduct awareness program on safety during the construction work - Undertake the construction work stretch-wise; excavation, pipe laying and trench refilling should be completed on the same day - Provide barricades, and deploy security personnel to ensure safe movement of people and also to prevent unnecessary entry and to	- Work plan - Barricades - Trench safety - Public consultation records with nearby residents - Safety signage and project information boards	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
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																				
Construction camps and worker facilities - Temporary air and noise pollution from machine operation, water pollution from storage and use of fuels, oils, solvents, and lubricants. Unsanitary and poor living conditions for workers: • Consult with PIU before locating project offices, sheds, and construction plants; • Minimize removal of vegetation and disallow cutting 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	• Approval of site from PIU • Tree cutting for camps • Facilities for workers e.g. ventilated rooms, first aid, crèche, cooking areas, toilet and washing facility • Solid waste management at camps • Sanitation facilities and dust bins • Signage	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
standard materials (as far as possible to use portable ready to fit-in reusable cabins with proper ventilation); thatched huts, and facilities constructed with materials like GI sheets, tarpaulins, etc., shall not be used as accommodation for workers; accommodation shall meet the IFC standards for workers accommodation which include: provision of safe housing, availability of electricity, plumbing, water and sanitation, adequate fire protection and dormitory/room facilities; accommodation shall be in the range from 10 to 12.5 cubic meters (volume) or 4 to 5.5 square meters (surface) per worker, a minimum ceiling height of 2.10 meters; a reasonable number of workers are allowed to share the same room – (standards range from 2 to 8 workers); workers with accompanying families shall be provided with a proper and safe accommodation • Train employees in the storage and handling of materials which can potentially cause soil contamination; • Recover used oil and lubricants and reuse or remove from the site; • Manage solid waste according to the preference hierarchy: reuse, recycling and disposal to designated areas; • Ensure unauthorized persons specially children are not allowed in any worksite at any																				

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
given time.																				
Social/Physical and Cultural Resources - Risk of archaeological chance finds: - Strictly follow the protocol for chance finds in any excavation work; - Create awareness among the workers, supervisors and engineers about the chance finds during excavation work - Stop work immediately to allow further investigation if any finds are suspected; - Inform local Archeological Department if a find is suspected and take any action, they require to ensure its removal or protection in situ	- Chance finds protocol given in IEE - Training of workers - Consultation with Archaeological department	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO Contractor/CM SC
		BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BC	NA	NA	
Monsoon preparedness - Disruption of utilities and water logging in trenches: - As for a possible avoid trench works and excavation works (pipe laying) during monsoon season to avoid any water logging and accident due to it - if open trenches are not avoidable during monsoon, keep ready all the mitigations measures to avoid water logging such as dewatering pumps and sufficient pipes, traffic assistance, barricades etc. - keep emergency response system ready before monsoon/heavy rain fall	- Monsoon preparedness plan - Emergency response plan	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO contractor
Submission of EMP implementation report - Unsatisfactory compliance to EMP: Appointment of supervisor to ensure EMP implementation	- Appointment of EHS officer - Regular submission of reports	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO Contractor
		BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
Timely submission of monitoring reports including pictures																				
Post-construction clean-up - Damage due to debris, spoils, excess construction materials: - Remove all spoils wreckage, rubbish, or temporary structures (such as buildings, shelters, and latrines) which are no longer required; and - All excavated roads shall be reinstated to original condition. - All disrupted utilities restored - All affected structures rehabilitated/compensated - The area that previously housed the construction camp is to be checked for spills of substances such as oil, paint, etc. and these shall be cleaned up. - All hardened surfaces within the construction camp area shall be ripped, all imported materials removed, and the area shall be top soiled and re-grassed using the guidelines set out in the re-vegetation specification that forms part of this document. - The contractor must arrange the cancellation of all temporary services. - Request PIU to report in writing that worksites and camps have been vacated and restored to pre- project conditions before acceptance of work.	- Site clearance and cleaning - Road and utilities restoration - Restoration of site as previous conditions	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor
Table 9 D. Operation Phase																				
Cleaning of drainage	Remove the silts and other solid waste after	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	TC	TC	TC	TC	TC	NA	NA	NA	ULB

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
All work sites- Cleaning of drains may cause traffic disturbances, nuisances, public & worker safety	cleaning the drains from site and dispose at approved dumping site in scientific manner Ensure traffic management during cleaning of drains and transportation of silt and solid waste																			
Check the blockages, overflow problem in drains It may affect the draining system, overflow problem may contaminate land, water and create public health issues	Regular cleaning of drains, specially before start of monsoon to avoid blockages Implementation of regular O&M schedules	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	TC	TC	TC	TC	TC	NA	NA	NA	ULB
Disposal of silt and solid waste Unsafe disposal of silt and solid waste may cause public nuisance and health issues	Identify the suitable place for disposal of silt and solid waste, away from habitation, in a scientific manner so that it may not cause public nuisance	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	TC	TC	TC	TC	TC	NA	NA	NA	ULB
Safety precautions during drainage cleaning Health and safety risk to workers engaged in drainage cleaning	Ensure all the safety equipment are available during manual cleaning As far as possible, use mechanical cleaning for cleaning of drains	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	TC	TC	TC	TC	TC	NA	NA	NA	ULB
Influx of visitors due to increased recreational amenities increased visitors, safety risk, increased vehicular movement along the roads, increased demands for services, and increased solid waste generation	- As a measure to restrict the access of lakes to designated areas and to ensure the safety of people moving in the pathways and public zones, railings shall be provided at All Public Zones, Along walkways, Along lake view seating - Emergency procedures shall be put in place such as rescue divers,	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	TC	TC	TC	ULB

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
	lifejackets shall •Increased vehicular movement along the roads - speed restrictions, vehicle entry restrictions, provision of appropriate road signage, pedestrians safety etc., shall minimize impacts on safety of the visitors •Lack of proper amenities like washrooms/ toilets for visitors will create filthy and unhealth conditions at the lake and surroundings; provide and maintain adequate number of washrooms, toilets, and create awareness and ensure that there is no open defecation (included in the project) •Wastewater outlets from washrooms, toilets shall be connected to sewerage system (to be developed under separate subproject), if not feasible, shall be discharged to septic tanks (water sealed on all sides and bottom to avoid contamination of soil and groundwater). Semi treated wastewater from septic tanks should sent to sewage treatment plant (using mobile tankers																			

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
	with suction systems) for further treatment and disposal. Cleaning and desludging operation of septic tanks shall not be conducted manually. •Water quality of the lakes to be monitored as per monitoring plan •Potential presence of venomous reptile species around the lake, also pose a risk to visitors and staff. Reptiles are mostly nocturnal and opportunistic, when there are no activities it tends to move out and as a precautionary measure antivenom/antivenin drug will be made available along with the First aid kit. Information on drug shall be displayed prominently, and awareness will be created not to harm the reptiles •The commercial surface water activities like, boating, etc. shall be confined and restrict to avoid any negative impacts on nesting birds •No night-time activity shall be permitted in lake water. •Ensure that catchment area of all																			

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		NKH (WS&W W)	DNG (WS&W W)	SGW (WS&W W)	BLT (WS&W W)	BRT (WW)	JOD (WW)	BAR (WW)	BUN (WS &WW)	NTD (WS)	NB H (WS)	JOD (DR)	BUN (DR)	NAW (DR)	BHM (DR)	RAT (DR)	BRT (CB)	SGW (CB)	JSL (CB)	
	lakes are covered under ongoing sewerage scheme •Use efficient water use methods to main sport facilities																			
Solid Waste Management Unsafe disposal of solid waste may cause public nuisance and health issues	Provide dust bins at appropriate locations and remove all the solid waste generated at project sites on regular basis and dispose in designated disposal sites.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	TC	TC	TC	
Maintenance of built infrastructure, like parking, signage, structures etc. In the absence of regular maintance the built infrastructure may get spoiled and may cause public nuisance.	Maintain all the built infrastructures at the level of satisfaction of visitors	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	TC	TC	TC	
Basic services like drinking water, toilets etc. Visitors need these facilities in a tourist place and lack of drinking water and toilet services will discourage the public turnout.	Maintain all the basic services provided at site such as cleaning of toilets, drinking water availability etc.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	TC	TC	TC	
Maintenance of built/Restored infrastructure, like parking, signage, Town Hall, and Illumination of gates and other buildings/structures etc. In the absence of regular maintenance the restored/built infrastructure may get spoiled and may cause public nuisance.	Maintain all the restored/ built infrastructures at the level of satisfaction of visitors Follow maintenance requirements or recommendations, if any, of state archaeological department / ASI and recommendations from the heritage impact assessment and mitigation plan	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	TC	NA	NA	

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

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Compliance Status	Responsibility
Pre –Construction Phase			
Dungarpur			
Presence of Crocodile in Vijay Chakra Dam (Dimiya Dam) - Disturbance / damage to flora, fauna:	• Prepare Environment management plan before starting any work. • Schedule the construction works during low water level period – late winter months to pre monsoon (November - May); ensure that works are completed during the same period to prior to onset of monsoon	TC (Work of refurbishment Intake well is yet to start and design of intake well is under review) (will be complied before the start of work and during construction)	DBO contractor/ PIU/Consultants
Construction Phase			
Dungarpur			
Impact of Crocodiles on Construction Activities in Lakes and Mitigation Measures • Habitat Disruption: Construction activities may lead to habitat disruption, affecting the natural nesting and basking sites of crocodiles. Excavation, dredging, land reclamation and use of heavy machinery can alter the shoreline and vegetation cover, impacting the crocodiles' habitat. • Disturbance during Nesting Season: Construction activities may coincide with the crocodile nesting season, causing disturbances that can lead to the abandonment of nests. Vibrations, noise, and human presence can be stressful for nesting	Mitigation measures during Construction phase • All project related site staff, construction workers and supervisors, shall be made aware of the sensitive sites, and prevent any harm or damage or disturbance to trees, vegetation, wildlife, birds etc., • Schedule works during dry season to avoid contaminated runoff from the work sites entering lake; clear the sites of materials, debris, and consolidated the refilled trenches prior to onset of monsoon • No construction camps (workers' accommodation, material / waste / soil storage) should be established within 200 m from the boundary of dam; camps should not be located close to drainage lines/streams that flow into dam • Movement of workers and staff should be confined to work site, and not be allowed in dam area which may disturb the sensitive area; ensure via strict supervision no poaching, fishing, cutting / damaging trees/vegetation or wildlife, birds etc., • Proper accommodation and facilities shall be provided within the camps, and workers shall not use the lake or surroundings for open defecation, bathing, or fishing / hunting, collecting firewood etc. Contractor should put in place, a proper system to monitor the staff and workers to prevent damage/ disturbance. • Implement sediment and erosion control measures to prevent soil erosion and sedimentation in the dam. Prevent entry of silt-laden / contaminated runoff into	TC (Work of refurbishment Intake well is yet to start and design of intake well is under review) (will be complied before the start of work and during construction)	DBO contractor/ PIU/Consultants

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Compliance Status	Responsibility
females, potentially affecting egg viability. • Increased Human-Crocodile Conflict: Construction activities near lakes may attract crocodiles to new areas, increasing the potential for human-crocodile conflicts. Encounters between construction workers and crocodiles can pose risks to both parties.	dam or drains leading to dam from the construction sites or construction camps. Appropriate measures such as silt traps, sedimentation ponds, and filtration systems should be installed to prevent sediment and other pollutants from entering the water supply. Soil stabilization measures should also be taken to prevent soil erosion during construction, Construction near dam to be planned in dry seasons only. • Place storage areas for fuels and lubricants away from any drainage leading to water bodies; • Store fuel, construction chemicals etc., on an impervious floor, also avoid spillage by careful handling. • Do not use equipment that generate heavy noise, ground vibration, dust etc., (such as pneumatic drills, dozers etc.), within 100 m of Dam. Adapt manual excavation as far as possible • Construction sites often generate significant amounts of dust that can impact nearby habitats. Dust suppression measures, such as watering down exposed soil, can help to reduce dust levels. • Dispose any wastes generated by construction activities in designated sites; and • Monitor the project closely throughout construction to ensure that all mitigation measures are being implemented effectively and that any issues are identified and addressed promptly. • Conduct surface quality inspection according to the environmental management plan (EMP). • Conduct continuous consultations with the local people during the works • Install 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. • Erect temporary barriers to form enclosed construction area with least disturbance • Implement work site safety at works in water body		

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

SNo.	Sub-Project Name	Package no.	EMP/ CEMP Part of Contract Documents (Y/N)	CEMP/ EMP Being Implemented (Y/N)	Status of Implementation (Excellent/ Satisfactory/ Partially Satisfactory/ Below Satisfactory)	Action Proposed and Additional Measures Required
1.	Bharatpur (Wastewater Subproject)	RSTDSP/BHR/WW/01	Yes	Yes	Satisfactory	No any
2.	Bundi (Water Supply and Wastewater Subproject)	Package No.: RSTDSP/3 Towns/WS-WW/01 Lot No.: RSTDSP/BUN/01	Yes	Yes	Satisfactory	No any
3.	Bundi (Drainage Subproject)	Package No.: RSTDSP/4 Towns/DR/01 Lot No.: RSTDSP/BUN-BHM/DR/01	Yes	Yes	Satisfactory	No any
4.	Bhawani Mandi (Drainage Subproject)	Package No.: RSTDSP/4 Towns/DR/01 Lot No.: RSTDSP/BUN-BHM/DR/01	Yes	Yes	Satisfactory	No any
5.	Bharatapur (City Beautification subproject)	RSTDSP/BHR/CTYBF/01	Yes	Yes	Satisfactory	No any
6.	Nawalgrh (Drainage Subproject)	Package No.: RSTDSP/4 Towns/DR/01 Lot No.: RSTDSP/NAW-RAT/DR/01	Yes	Yes	Satisfactory	No any
7.	Dungarpur (Water Supply & Wastewater Subproject)	Package No.: RSTDSP/DNG-SGW/WS-WW/01 Lot No.: RSTDSP/DNG /WS-WW/01	Yes	Yes	Satisfactory	No any
8.	Sagwara (Water Supply & Wastewater Subproject)	Package No.: RSTDSP/DNG-SGW/WS-WW/01 Lot No.: RSTDSP/SGW/WS-WW/01	Yes	Yes	Satisfactory	No any
9	Nokha (Water supply & Wastewater Subproject)	RSTDSP/NKH/01	Yes	Yes	Satisfactory	No any

SNo.	Sub-Project Name	Package no.	EMP/ CEMP Part of Contract Documents (Y/N)	CEMP/ EMP Being Implemented (Y/N)	Status of Implementation (Excellent/ Satisfactory/ Partially Satisfactory/ Below Satisfactory)	Action Proposed and Additional Measures Required
10	Nathdwara (Water Supply Subproject)	Package No.: RSTDSP/3 Towns/WS-WW/01 Lot No.: RSTDSP/NTD/01	Yes	Yes	Satisfactory	No any
11	Nimbahera (Water Supply Subprojec)	Package No.: RSTDSP/3 Towns/WS-WW/01 Lot No.: RSTDSP/NBH/01	Yes	Yes	Satisfactory	No any
12	Jodhpur (Wastewater Subproject)	RSTDSP/JOD/01	Yes	Yes	Satisfactory	No any
13	Jodhpur (Drainage Subproject)	RSTDSP/JOD/02	Yes	Yes	Satisfactory	No any
14	Ratangarh (Drainage Subproject)	Package No.: RSTDSP/4 Towns/DR/01 Lot No.: RSTDSP/NAW-RAT/DR/01	Yes	Yes	Satisfactory	No any
15	Barmer (Wastewater Subproject)	Package No.: RSTDSP/BAR-BLT/WS-WW/01 Lot No.: RSTDSP/BAR/WW/01	Yes	Yes	Satisfactory	No any
16	Balotra (Water Supply and Wastewater Subproject)	Package No.: RSTDSP/BAR-BLT/WS-WW/01 Lot No.: RSTDSP/BLT/WS-WW/01	Yes	Yes	Satisfactory	No any
17	Sagwara City Beautification Subproject	RSTDSP/SGR/CTYBF/01	Yes	Yes	Satisfactory	No any
18	Jaiselmer City Beautification Subproject	RSTDSP/JSL/CTYBF/01	Yes	Yes	Satisfactory	No any
19	Bundi City Beautification Subproject	Bidding Stage	-	-	-	-
20	Pushkar City Beautification Subproject	Bidding Stage	-	-	-	-
21	Mount Abu City Beautification Subproject	Bidding Stage	-	-	-	-
22	Nawalgarh City Beautification Subproject	DPR Stage	-	-	-	-
23	Nathdwara City Beautification Subproject	DPR Stage	-	-	-	-

Table 11: Package-wise IEE Status

Package No	Subproject town	Design Status (Preliminary Design Stage/Detailed Design Completed)	Final IEE based on Detailed Design				Site-specific EMP (or Construction EMP) approved by Project Manager? (Yes/No)	Remarks
			Not yet due (detailed design not yet completed)	Submitted to ADB (Provide Date of Submission)	Disclosed on project website (Provide Link)	Final IEE provided to Contractor/s (Yes/No)		
RSTDSP/NKH/01	Nokha (Water supply & Wastewater Subproject)	Preliminary Design Stage	✓				Yes	• IEE Approved by ADB on dated 07.04.2022 • Updated IEE approved by ADB on 12.10.2023 and uploaded in ADB and RUIDP portal
RSTDSP/JOD/01	Jodhpur (Wastewater Subproject)	Preliminary Design Stage	✓				Yes	• IEE approved by ADB on dated 13.04.2022. • Updated IEE approved by ADB on 12.10.2023 and uploaded in ADB and RUIDP portal
RSTDSP/JOD/02	Jodhpur (Drainage Subproject)	Preliminary Design Stage	✓				Yes	• IEE Approved by ADB on dated 23.03.2022.
RSTDSP/3 towns/WS-WW//01	Nimbahera (Water Supply Subproject)	Preliminary Design Stage	✓				Yes	• IEE of Nimbahera for water supply approved by ADB on dated 19.07.2022. • Updated IEE approved by ADB on 12.10.2023 and uploaded in ADB and RUIDP portal

Package No	Subproject town	Design Status (Preliminary Design Stage/Detailed Design Completed)	Final IEE based on Detailed Design				Site-specific EMP (or Construction EMP) approved by Project Manager? (Yes/No)	Remarks
			Not yet due (detailed design not yet completed)	Submitted to ADB (Provide Date of Submission)	Disclosed on project website (Provide Link)	Final IEE provided to Contractor/s (Yes/No)		
	Bundi (Water Supply and Wastewater Subproject)	Preliminary Design Stage	✓				Yes	• IEE Bundi Water Supply and Sewerage is approved by ADB on dated 19.07.2022 • Updated IEE approved by ADB and uploaded in ADB and RUIDP portal.
	Nathdwara (Water supply Subproject)	Preliminary Design Stage	✓				Yes	• IEE Nathdwara Water Supply is approved by ADB on 15 .07.2022 • Updated IEE approved by ADB on 12.10.2023 and uploaded in ADB and RUIDP portal
RSTDSP/DNG-SGW/WS-WW/01	Dungarpur (Water Supply & Wastewater Subproject)	Preliminary Design Stage	✓				Yes	• IEE of Durgapur approved by ADB On 03.06.2022. • Updated IEE approved by ADB on 13.03.2024 and uploaded in ADB and RUIDP portal
	Sagwara (Water Supply & Wastewater Subproject)	Preliminary Design Stage	✓				Yes	• IEE of Sagwara approved by ADB on 03.06.2022.
RSTDSP/BHR/W W/01	Bharatpur	Preliminary Design Stage	✓				Yes	• IEE for Bharatpur Wastewater subproject is

Package No	Subproject town	Design Status (Preliminary Design Stage/Detailed Design Completed)	Final IEE based on Detailed Design				Site-specific EMP (or Construction EMP) approved by Project Manager? (Yes/No)	Remarks
			Not yet due (detailed design not yet completed)	Submitted to ADB (Provide Date of Submission)	Disclosed on project website (Provide Link)	Final IEE provided to Contractor/s (Yes/No)		
	(Wastewater Subproject)							approved by ADB on dated 07.09.2022 Updated IEE approved by ADB and uploaded in ADB and RUIDP portal
RSTDSP/4 towns/DR/01	Bundi (Drainage Subproject)	Preliminary Design Stage	✓				Yes	- IEE for Bundi drainage subproject is approved by ADB on dated 23.09.2022. - Updated IEE submitted to ADB for review and approval.
	Bhawani Mandi (Drainage Subproject)	Preliminary Design Stage	✓				Yes	IEE approved by ADB on dated 27.10.2022
	Ratangarh (Drainage Subproject)	Preliminary Design Stage	✓				Yes	IEE approved by ADB on dated 02.12.2022
	Nawalgrh (Drainage Subproject)	Preliminary Design Stage	✓				Yes	IEE approved by ADB on dated 27.10.2022
RSTDSP/SGR/CT YBF/01	Sagwara (City Beautification Subproject)	Preliminary Design Stage	✓				Yes	IEE approved by ADB on dated 08.03.2023
RSTDSP/JSL/CTY BF/01	Jaiselmer (City Beautification Subproject)	Preliminary Design Stage	✓				Yes	IEE approved By ADB on dated 20.12.2023
RSTDSP/BHR/CT YBF/01	Bharatapur (City Beautification Subproject)	Preliminary Design Stage	✓				Yes	IEE approved by ADB on dated 03.07.2023

Package No	Subproject town	Design Status (Preliminary Design Stage/Detailed Design Completed)	Final IEE based on Detailed Design				Site-specific EMP (or Construction EMP) approved by Project Manager? (Yes/No)	Remarks
			Not yet due (detailed design not yet completed)	Submitted to ADB (Provide Date of Submission)	Disclosed on project website (Provide Link)	Final IEE provided to Contractor/s (Yes/No)		
RSTDSP/BAR-BLT/WS-WW/01	Barmer (Wastewater Subproject)	Preliminary Design Stage	✓				Yes	• IEE approved by ADB on dated 18.07.2023
	Balotra (Water Supply and Wastewater Subproject)	Preliminary Design Stage	✓				Yes	• IEE approved by ADB on dated 18.07.2023
	Bundi (City Beautification Subproject)	Bidding Stage						• Draft IEE Submitted to ADB
	Pushkar (City Beautification Subproject)	Bidding Stage						• Draft IEE Submitted to ADB
	Mount Abu (City Beautification Subproject)	Bidding Stage						• Draft IEE Submitted to ADB
	Nawalgarh (City Beautification Subproject)	DPR Stage						• IEE under preparation
	Nathdwara (City Beautification Subproject)	DPR Stage						• IEE under preparation

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. National standards for ambient air quality standards is provided in **Table 12**. National and ADB SPS's Noise Quality Standards are provided in **Table 13**, while Drinking Water Quality Standards (As per IS 10500:2012) are provided in **Table 14**. General Parameters Concerning Substances Undesirable in Excessive Amounts are given in **Table 15**. Surface Water Quality Standards for class B (bathing) are provided in **Table 16** and Discharge Standards to be achieved as per NGT order dtd. 30.04.2019 are provided in **Table 17**.

5. NATIONAL STANDARDS

Table -12: National Ambient Air Quality Standards

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

	µm) or PM2.5 µg/m ³					
5	Carbon Monoxide (CO) µg /m ³	8 hours 1 hours	02 04	02 04	Non Dispersive Infra Red (NDIR) Spectroscopy	2,000 (8-hr) 4,000 (1-hr) 100,000 (15-min)

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

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

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

Table -14: Drinking Water Quality Standards (As per IS 10500:2012)Organoleptic and Physical Parameters
(Foreword and Clause 4)

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

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

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

(Foreword and Clause 4)

SI No.	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	Method of Test, Ref to	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
i)	Aluminium (as Al), mg/l, <i>Max</i>	0.03	0.2	IS 3025 (Part 55)	—
ii)	Ammonia (as total ammonia-N), mg/l, <i>Max</i>	0.5	No relaxation	IS 3025 (Part 34)	—
iii)	Anionic detergents (as MBAS) mg/l, <i>Max</i>	0.2	1.0	Annex K of IS 13428	—
iv)	Barium (as Ba), mg/l, <i>Max</i>	0.7	No relaxation	Annex F of IS 13428* or IS 15302—	—
v)	Boron (as B), mg/l, <i>Max</i>	0.5	1.0	IS 3025 (Part 57)	—
vi)	Calcium (as Ca), mg/l, <i>Max</i>	75	200	IS 3025 (Part 40)	—
vii)	Chloramines (as Cy, mg/l, <i>Max</i>	4.0	No relaxation	IS 3025 (Part 26)* or APHA 4500-Cl G	—
viii)	Chloride (as Cl), mg/l, <i>Max</i>	250	1 000	IS 3025 (Part 32)	—
ix)	Copper (as Cu), mg/l, <i>Max</i>	0.05	1.5	IS 3025 (Part 42)	—
x)	Fluoride (as F) mg/l, <i>Max</i>	1.0	1.5	IS 3025 (Part 60)	—
xi)	Free residual chlorine, mg/l, <i>Min</i>	0.2	1	IS 3025 (Part 26)	To be applicable only when water is chlorinated. Tested at consumer end. When protection against viral infection is required, it should be minimum 0.5 mg/l
xii)	Iron (as Fe), mg/l, <i>Max</i>	0.3	No relaxation	IS 3025 (Part 53)	Total concentration of manganese (as Mn) and iron (as Fe) shall not exceed 0.3 mg/l
xiii)	Magnesium (as Mg), mg/l, <i>Max</i>	30	100	IS 3025 (Part 46)	—
xiv)	Manganese (as Mn), mg/l, <i>Max</i>	0.1	0.3	IS 3025 (Part 59)	Total concentration of manganese (as Mn) and iron (as Fe) shall not exceed 0.3 mg/l
xv)	Mineral oil, mg/l, <i>Max</i>	0.5	No relaxation	Clause 6 of IS 3025(Part 39) Infrared partition method	—
xvi)	Nitrate (as NOA mg/l, <i>Max</i>	45	No relaxation	IS 3025 (Part 34)	—
xvii)	Phenolic compounds (as C ₆ H ₅ OH), mg/l, <i>Max</i>	0.001	0.002	IS 3025 (Part 43)	—
xviii)	Selenium (as Se), mg/l, <i>Max</i>	0.01	No relaxation	IS 3025 (Part 56) or IS 15303*	—
xix)	Silver (as Ag), mg/l, <i>Max</i>	0.1	No relaxation	Annex J of IS 13428	—
xx)	Sulphate (as SO ₄) mg/l, <i>Max</i>	200	400	IS 3025 (Part 24)	May be extended to 400 provided that Magnesium does not exceed 30
xxi)	Sulphide (as H ₂ S), mg/l, <i>Max</i>	0.05	No relaxation	IS 3025 (Part 29)	—
xxii)	Total alkalinity as calcium	200	600	IS 3025 (Part 23)	—

Sl No.	Characteristic	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source	Method of Test, Ref to	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
	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/ <i>Max</i>	5.0
3.	Biochemical Oxygen Demand	3.0
4.	Total Coliform Organisms, MPN/100 ml, <i>Max</i>	500
5.	Fluorides (as F) <mg/l, <i>Max</i>	1.5
6.	Colour, Hazen Units, <i>Max</i>	300
7.	Cyanides (as CN), mg/l, <i>Max</i>	0.05
8.	Arsenic (as As), mg/l, <i>Max</i>	0.2
9.	Phenolic Compounds (As C ₆ H ₅ OH) mg/l, <i>Max</i>	0.005
10.	Chromium (as Cr ⁶⁺), mg/l, <i>Max</i>	1.0
11.	Anionic detergents (as MBAS), mg/l, <i>Max</i>	1.0
12.	Alpha emitters, mc/ml, <i>Max</i>	10 ⁻⁸

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

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

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

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

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

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

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

Table 19: Method of monitoring and equipment used

S.No.	Parameter monitoring of	Equipment used	Methodology	Protocol of test
Air Quality				
1.	PM ₁₀	Fine Particulate Sampler (e.g. Envirotech APM 550)	Collection of particulate matter on filter papers and gravimetric analysis	IS 5182 (part 23): 2006
2	PM _{2.5}	PM _{2.5} sampler (e.g. Envirotech APM 154)	Collection of particulate matter on	As per CPCB guidelines

S.No.	Parameter monitoring of	Equipment used	Methodology	Protocol of test
			filter papers and gravimetric analysis	
3	SO _x	Respirable Dust Sampler with gaseous attachment (e.g. Envirotech APM 460BL), UV/VIS spectrophotometer	Absorption of a gases in liquid absorbent and analysis by improved West and Geike	IS 5182 (part 2): 2001
4	NO _x	Respirable Dust Sampler with gaseous attachment (e.g. Envirotech APM 460BL), UV/VIS spectrophotometer	Absorption of a gases in liquid absorbent and analysis by Modified Jacob and Hochheiser (Na-arsenite)	IS 5182 (part VI):2006
5	CO	Single Gas Analyser (CO meter)	Detection method	IS 5182 (part 10): 1999
Noise Quality				
6	Noise Level (Day time and night time)	Noise level meter (Envirotech SLM 100)	Instrumental	IS 9989
Water Quality				
7	pH	pH meter	Instrumental	IS:3025 (part 11): 2002
8	Turbidity	Manual Grab Sampling in Sterilized Sample collection bottle and lab analysis	Gravimetric Analysis	IS:3025 (part 10): 1984
9	Total Suspended Solids (TSS)	-do-	Gravimetric Analysis	IS:3025 (part 15): 1984
10	Total Dissolved Solids (TDS)	-do-	Gravimetric Analysis	IS:3025 (part 16): 2006
11	Total Hardness as CaCO ₃	-do-	Qualitative Analysis	IS:3025 (part 21): 2009
12	Chloride as Cl	-do-	Qualitative Analysis	IS:3025 (part 32): 2003
13	Sulphate as SO ₄	-do-	Qualitative Analysis	IS:3025 (part 24): 2003
14	Iron as Fe	-do-	Qualitative Analysis	IS:3025 (part 53): 2003
15	Fluoride as F	-do-	Qualitative Analysis	IS:3025 (part 60): 2008
16	Zinc as Zn	-do-	Qualitative Analysis	IS:3025 (part 49): 1994
17	Copper as Cu	-do-	Qualitative Analysis	IS:3025 (part 42): 1992
18	Manganese as Mn	-do-	Qualitative Analysis	IS:3025 (part 59): 2006
19	Mercury as Hg	-do-	Qualitative Analysis	IS:3025 (part 48): 1994
20	Cadmium	-do-	Qualitative Analysis	IS:3025 (part 41): 1992
21	Chromium as Cr	-do-	Qualitative Analysis	IS:3025 (part 52): 2003
22	Total Arsenic as As	-do-	Qualitative Analysis	IS:3025 (part 37): 1988
23	Lead as Pb	-do-	Qualitative Analysis	IS:3025 (part 47): 1994
24	Dissolved Oxygen (DO)	-do-	Qualitative Analysis	IS:3025 (part 38): 1989
25	Chlorine (residual free)	-do-	Qualitative Analysis	APHA 22 nd edition-4500Cl B
26	Calcium as Ca	-do-	Qualitative Analysis	IS:3025 (part 40): 2003
27	Magnesium as Mg	-do-	Qualitative Analysis	APHA 22 nd edition
28	Total Alkalinity as CaCO ₃	-do-	Qualitative Analysis	IS:3025 (part 23): 2003
29	Colour	-	Physical observation	APHA 22 nd edition
30	Odour	-	Physical observation	APHA 22 nd edition
31	Taste	-	Physical observation	APHA 22 nd edition
32	Phenolic Compound	-do-	Qualitative Analysis	IS:3025 (part 43): 1992
33	Total Residual Chlorine	-do-	Qualitative Analysis	IS:3025 (part 26): 1986

7. ENVIRONMENTAL MONITORING DURING REPORTING PERIOD

23. Baseline environmental monitoring for ambient air, noise, water and soil has been conducted in all towns. Results show that ambient air quality in these towns are well within the prescribed standards, whereas noise quality is slightly higher in most of project towns due to prevailing ambient conditions such as noise from vehicles and other activities near the monitoring locations. During reporting period environmental monitoring was conducted in all towns whereas Construction phase environmental monitoring (quarterly) was conducted in all 18 towns (Dungarpur, Sagwara Bundi, Nathdwara, Nimbahera, Nokha, Jodhpur (Wastewater), Jodhpur (Drainage), Bharatpur (Wastewater), Bundi, Bhawani Mandi, Nawalgarh & Ratangarh (Drainage) Barmer, Balotra, Bharatpur Jaisalmer & Sagwara (City Beautification) sub project towns. Results of environmental monitoring (baseline and periodical) during reporting period is given in **Appendix 11**. Summary of environmental monitoring conducted during reporting period is given below in **Table -20**.

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

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
1	Jodhpur (Drainage Subproject)	Construction	- Air Quality, - Noise Quality, - Ground & Surface Water Quality, - Soil Quality	12.10.2023 to 19.10.2023	- SMCC Site Plant Area - Banar Road Nandri - Near Derby Colony - Near Jojari River Prem Nagar - Near railway Line Banar - Opposite Khangta Hospital Banar - STP Plant Salawas	- Air quality monitoring conducted at 7 locations and results are more than national standards for 3 locations & are within national standards all parameters in 4 locations, whereas PM10 (ranges from 83.0 to 132.0 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 46.0 to 65.0 $\mu\text{g}/\text{m}^3$) values in all 7 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 7 locations. Day time results ranges from 56.2 to 72.4 dBA and night time results ranges from 36.7 to 46.8 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 7 locations whereas noise quality results during night time were within prescribed limits as per the national standards as well as ADB SPS recommended standards for residential areas at 6 locations.
				05.02.2024 to 07.02.2024	- Near Derby Colony - Near Junao Complex - SMCC Site Plant Area - STP Plant , Salawas	Air quality monitoring conducted at 4 locations and results are more than national standards for 1 location & are within national standards all parameters in 3 locations, whereas PM10 (ranges from 85.0 to 108.0 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 48.0 to 59.0 $\mu\text{g}/\text{m}^3$) values in all 4 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards.

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						Noise quality monitoring conducted at 4 locations. Day time results ranges from 59.1 to 67.4 dBA and night time results ranges from 34.2 to 44.8 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 4 locations whereas noise quality results during night time were within prescribed limits as per the national standards as well as ADB SPS recommended standards for residential areas at all 4 locations.
2	Nokha Water Supply & Wastewater Subproject	Construction	- Air Quality, - Noise Quality, - Ground - Water Quality, - Soil Quality	07.10.2023 to 09.10.2023	- SPS at Nokha - Raisar Head Works - AEn Campus Nanwali gate - STP 5 MLD at Madiya - Ranarao WH - STP 5 MLD at Charkara - Water Distribution Network Near Bhato ki Tanki	- Air quality monitoring conducted at 7 locations and all results are within national standards for all parameters in all 7 locations, whereas PM10 (ranges from 62.4 to 76.25 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 25.7 to 32.9 $\mu\text{g}/\text{m}^3$) values in all 7 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 7 locations. Day time results ranges from 53.7 to 67.4 dBA and night time results ranges from 41.8 to 56.36 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at 5 locations whereas noise quality results during night time were within prescribed limits as per the national standards as well as ADB SPS recommended standards for residential areas at 3 locations.

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
				01.01.2024 to 02.01.2024	• SPS at Nokha • Raisar Head Works • AEn Campus Nanwali gate • Ranarao WH • STP 5 MLD at Charkara • Water Distribution Network Near Bhato ki Tanki	• Air quality monitoring conducted at 6 locations and all results are within national standards for all parameters in all 6 locations, whereas PM10 (ranges from 65.4 to 75.25 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 28.2 to 33.96 $\mu\text{g}/\text{m}^3$) values in all 6 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. • Noise quality monitoring conducted at 6 locations. Day time results ranges from 54.1 to 68.8 dBA and night time results ranges from 40.1 to 54.2 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at 4 locations whereas noise quality results during night time were within prescribed limits as per the national standards as well as ADB SPS recommended standards for residential areas at 4 locations.
3	Jodhpur (Wastewater Subproject)	Construction	• Air Quality, • Noise Quality, • Ground & Surface Water Quality, • Soil Quality	19.10.2023 to 21.10.2023	• 8 Meel Mandor • SPS Near Nandri • Ganeshpura	• Air quality monitoring conducted at 3 locations and all results are within national standards for all parameters in all 3 locations, whereas PM10 (ranges from 64.6 to 69.3 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 20.4 to 23.8 $\mu\text{g}/\text{m}^3$) values (PM10) in all 3 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. • Noise quality monitoring conducted at 3 locations. Day time results ranges from 60.4 to 64.3 dBA and night time results ranges from 46.5 to 49.1 dBA. Results show that during day & night time, noise quality results were slightly higher

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						than the national standards as well as ADB SPS recommended standards for residential areas at all 3 locations.
				16.02.2024 to 17.02.2024	• STP Gujrawas • SPS Nandri	• Air quality monitoring conducted at 2 locations and all results are within national standards for all parameters in all 2 locations, whereas PM10 (ranges from 63.5 to 65.4 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 23.7 to 25.8 $\mu\text{g}/\text{m}^3$) values (PM10) in all 2 locations whereas values (PM2.5) in 1 location is more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. • Noise quality monitoring conducted at 2 locations. Day time results ranges from 61.2 to 62.5 dBA and night time results ranges from 47.6 to 49.7 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 2 locations.
4	Sagwara Water Supply & Wastewater Subproject	Construction	• Air Quality, • Noise Quality, Ground & Surface • Water Quality, • Soil Quality	24.10.2023 to 25.10.2023	• CWR Pumping Station • Near Indian Oil Petrol Pump Punarwas colony	• Air quality monitoring conducted at 2 locations and all results are within national standards for all parameters in all 2 locations, whereas PM10 (ranges from 69.6 to 73.3 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 34.2 to 34.6 $\mu\text{g}/\text{m}^3$) values in both locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. • Noise quality monitoring conducted at 2 locations. Day time results ranges from 63.3 to 67.8 dBA and night time results ranges from 43.8 to 44.6 dBA. Results show that during day time, noise quality results were slightly higher than the

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						national standards as well as ADB SPS recommended standards for residential areas for both locations whereas noise quality results during night time were within prescribed limits as both standards for residential areas at all 2 locations.
				05.03.2024	• CWR Pumping Station • Near Indian Oil Petrol Pump Punarwas colony	• Air quality monitoring conducted at 2 locations and all results are within national standards for all parameters in all 2 locations, whereas PM10 (ranges from 54.3 to 58.6 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 18.6 to 20.1 $\mu\text{g}/\text{m}^3$) values (PM10) in both locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. • Noise quality monitoring conducted at 2 locations. Day time results ranges from 60.4 to 64.5 dBA and night time results ranges from 54.4 to 58.1 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 2 locations.
5	Dungarpur Water Supply & Wastewater Subproject	Construction	• Air Quality, • Noise Quality, • Ground • Water Quality, • Soil Quality	23.10.2023 to 24.10.2023	• Old City Manak Chowk • CWR Pumping Station at Udaivilas • CWR Pumping Station at New Colony	• Air quality monitoring conducted at one location and all results are within national standards for all parameters in 1 location, whereas PM10 was 65.3 $\mu\text{g}/\text{m}^3$ and PM 2.5 was 28.6 $\mu\text{g}/\text{m}^3$ values in this locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. • Noise quality monitoring conducted at 2 locations. Day time results ranges from 46.9 to 64.6 dBA and night time results ranges from 38.2 to 43.4 dBA. Results show that during day time,

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas for 1 location location whereas noise quality results during night time were within prescribed limits as both standards for residential areas at all 2 locations.
				05.03.2024	- Near Kendrive College - Pragati Nagar Near Jain Temple - Near Shahstri Colony	- Air quality monitoring conducted at 3 locations and all results are within national standards for all parameters in 3 locations, whereas PM10 was 68.5 to 78.7 $\mu\text{g}/\text{m}^3$ and PM 2.5 was 26.5 to 32.1 $\mu\text{g}/\text{m}^3$ values in all 3 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 3 locations. Day time results ranges from 62.4 to 70.5 dBA and night time results ranges from 56.2 to 63.4 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 3 locations.
6	Bundi Water supply & Wastewater Subproject	Construction	- Air Quality, - Noise Quality, - Ground & Surface - Water Quality, - Soil Quality	27.10.2023 to 28.10.2023	- Vikas Nagar OSSR - CWR Nainwa Road Pump House - STP Site Ramganj - At Nahar ka Chautha	- Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM10 (ranges from 70.96 to 82.17 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 24.12 to 38.6 $\mu\text{g}/\text{m}^3$) values in 3 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 4 locations. Day time results ranges from 54.2 to

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						64.5 dBA and night time results ranges from 38.9 to 43.5 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at 3 locations whereas noise quality results during night time were within prescribed limits as per both standards at all 4 locations.
				15.03.2024 to 16.03.2024	• STP Site Ramganj Balaji • CWR Nainwa Road Pump House • At Nahar ka Chautha • WTP Jhakhmood	• Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM10 (ranges from 72.2 to 81.5 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 22.4 to 39.1 $\mu\text{g}/\text{m}^3$) values (PM10) in all 4 locations & values (PM2.5) in 3 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. • Noise quality monitoring conducted at 4 locations. Day time results ranges from 52.1 to 65.1 dBA and night time results ranges from 39.4 to 44.2 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at 3 locations whereas noise quality results during night time were within prescribed limits as per both standards at all 4 locations.
7	Nathdwara Water Supply Subproject	Construction	• Air Quality, • Noise Quality, Ground	02.11.2023 to 04.11.2023	• WTP Nathdwara • OHSR 1500 KL • CRMC at Imli Chowk • Kothariya Road	• Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM10 (ranges from 75.1 to 80.96 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 32.2 to 36.6 $\mu\text{g}/\text{m}^3$) values in all 4 locations are more than applicable ADB SPS

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
			- Water Quality, - Soil Quality			limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 4 locations. Day time results ranges from 55.7 to 64.2 dBA and night time results ranges from 40.2 to 46.0 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 4 locations whereas noise quality results during night time were within prescribed limits as per both standards at 3 locations.
				20.03.2024 to 21.03.2024	- WTP, Nand Samand - RMC Plant 300 KL, OSHR Bhandri Bawbari - RTDC Road	- Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM10 (ranges from 76.4 to 82.3 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 32.4 to 38.6 $\mu\text{g}/\text{m}^3$) values in all 4 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 4 locations. Day time results ranges from 58.2 to 66.6 dBA and night time results ranges from 42.0 to 46.4 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 4 locations whereas noise quality results during night time were within prescribed limits as per both standards at 3 locations.
8	Nimbahera Water Supply Subproject	Construction	- Air Quality, - Noise Quality,	29.10.2023 to 30.10.2023	- Atal nagar Housing Board Colony - WTP Araniya Joshi	Air quality monitoring conducted at 3 locations and all results are within national standards for all parameters in all 3 locations, whereas PM10

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
			Ground & Surface • Water Quality, • Soil Quality		CRMC Building BR College	(ranges from 78.2 to 83.1 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 33.1 to 39.3 $\mu\text{g}/\text{m}^3$) values in all 3 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 3 locations. Day time results ranges from 54.2 to 65.2 dBA and night time results ranges from 40.0 to 46.8 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at 2 locations whereas noise quality results during night time were within prescribed limits as per both standards at 2 locations.
				18.03.2024 to 19.03.2024	- Near RUIDP Camp Office - Near Guard Room WTP, Arniya Joshi - Near Main Gate, CWR, BR College	- Air quality monitoring conducted at 3 locations and all results are within national standards for all parameters in all 3 locations, whereas PM10 (ranges from 78.8 to 82.6 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 34.1 to 38.2 $\mu\text{g}/\text{m}^3$) values in all 3 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 3 locations. Day time results ranges from 56.4 to 65.0 dBA and night time results ranges from 40.6 to 44.4 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 3 locations whereas noise quality results during night time were within prescribed limits as per both standards at all 3 locations.

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
9	Bundi Drainage Subproject	Construction	- Air Quality, - Noise Quality, - Ground & Surface Water Quality, - Soil Quality	21.10.2023 to 22.10.2023	- Jait Sagar Nalla, Near Arawali Marriage Garden - Jait Sagar Nalla, Near Meera Bagh Chowki - City Kotwali Police Thana - Bharat Petrol pump (Devpura) - Nainwa Road Megistrate Colony - Batching Plant Near Meera Road	- Air quality monitoring conducted at 6 locations and all results are within national standards for all parameters in all 6 locations, whereas PM10 (ranges from 57.1 to 65.5 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 22.3 to 34.6 $\mu\text{g}/\text{m}^3$) values in 5 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 6 locations. Day time results ranges from 62.4 to 69.4 dBA and night time results ranges from 46.4 to 56.4 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 6 locations.
				06.02.2024 to 08.02.2024	- Jait Sagar Nalla, Near Arawali Marriage Garden - Jait Sagar Nalla, Near Meera Bagh Chowki - City Kotwali Police Thana - Bharat Petrol pump (Devpura) - Nainwa Road Megistrate Colony - Batching Plant Near Meera Road	- Air quality monitoring conducted at 6 locations and all results are within national standards for all parameters in all 6 locations, whereas PM10 (ranges from 54.0 to 65.3 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 23.2 to 33.6 $\mu\text{g}/\text{m}^3$) values (PM10) in all 6 locations & values (PM2.5) in 5 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 6 locations. Day time results ranges from 62.1 to 70.3 dBA and night time results ranges from 42.6 to 60.4 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 6 locations whereas during night time, noise

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at 5 locations.
10	Bharatpur Wastewater Subproject	Construction	- Air Quality, - Noise Quality, - Soil Quality	16.12.2023 to 18.12.2023	- STP – 1 - SPS – 4 (2.25 MLD Zone 4) - SPS - 3 (1.65 MLD Zone 3) - Pipe Laying Site Near Sensitive Area (Zone 1) Near SPS 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 68.12 to 73.17 µg/m³ and PM_{2.5} (ranges from 25.4 to 27.3 µg/m³) values in all 4 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 4 locations. Day time results ranges from 59.4 to 64.7 dBA and night time results ranges from 42.2 to 49.6 dBA. Results show that during day time noise quality results were slightly higher at all 4 locations and during night time, noise quality results were slightly higher at 2 locations as per the national standards as well as ADB SPS recommended standards for residential areas.
11	Bhawani Mandi Drainage subproject	Construction	- Air Quality, - Noise Quality, Ground - Water Quality, - Soil Quality	22.10.2023 to 23.10.2023	- Trimurti Colony Dag Road Pachhad - Near Baba Circle - Sadar Bazar Near Tarachand Hotel - Ashram road Near Santi Choraya - Jawahar Colony Near Vivekanad Choraya	- Air quality monitoring conducted at 5 locations and all results are within national standards for all parameters in all 5 locations, whereas PM₁₀ (ranges from 60.9 to 69.3 µg/m³ and PM_{2.5} (ranges from 22.3 to 27.0 µg/m³) values (PM₁₀) in all 5 locations whereas values (PM_{2.5}) in 3 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 5 locations. Day time results ranges from 62.3 to 67.6 dBA and night time results ranges from 47.3

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						to 52.6 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 5 locations.
				28.03.2024 to 29.03.2024	- Trimurti Colony Dag Road Pachhad - Near Baba Circle - Sadar Bazar Near Tarachand Hotel - Ashram road Near Santi Choraya - Jawahar Colony Near Vivekanad Choraya	- Air quality monitoring conducted at 5 locations and all results are within national standards for all parameters in all 5 locations, whereas PM10 (ranges from 58.8 to 64.8 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 21.3 to 25.9 $\mu\text{g}/\text{m}^3$) values (PM10) in all 5 locations whereas values (PM2.5) in 1 location are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 5 locations. Day time results ranges from 60.4 to 67.2 dBA and night time results ranges from 45.4 to 53.6 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 5 locations.
12	Nawalgrh Drainage Subproject	Construction	- Air Quality, - Noise Quality, - Ground - Water Quality, - Soil Quality	27.10.2023 to 29.10.2023	- Near Bakra Mandi - Near Fire Station - Swamiyo ka Jav - Near Bhagton ka Johad - Derana Johad (Disposal point) - Badrana Johad (Disposal Point)	- Air quality monitoring conducted at 6 locations and all results are within national standards for all parameters in all 6 locations, whereas PM10 (ranges from 56.2 to 68.3 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 22.3 to 26.9 $\mu\text{g}/\text{m}^3$) values (PM10) in all 6 locations whereas values (PM2.5) in 4 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 6 locations. Day time results ranges from 59.4 to

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						64.4 dBA and night time results ranges from 49.1 to 53.6 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 6 locations.
			•	19.03.2024 to 20.03.2024	• Near Bakra Mandi • Near Fire Station • Swamiyo ka Jav • Near Bhagton ka Johad • Derana Johad (Disposal point) • Badrana Johad (Disposal Point)	• Air quality monitoring conducted at 6 locations and all results are within national standards for all parameters in all 6 locations, whereas PM10 (ranges from 57.2 to 66.1 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 23.1 to 26.2 $\mu\text{g}/\text{m}^3$) values (PM10) in all 6 locations whereas values (PM2.5) in 2 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 58.2 to 63.2 dBA and night time results ranges from 50.2 to 53.1 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 6 locations.
13	Ratangarh Drainage Subproject	Construction	• Air Quality, • Noise Quality, • Ground • Water Quality, • Soil Quality	25.10.2023 to 27.10.2023	• SWPS – 1 (Near Rly Quarters) • SWPS – 2 (Saraf Sump Well) • SWPS – 3 (Parmana Taal) • SWPS – 4 (Main Ginani) • SWPS – 5 (Near BSNL Office) • SWPS – 6 Near Hanuman Park	• Air quality monitoring conducted at 9 locations and all results are within national standards for all parameters in all 9 locations, whereas PM10 (ranges from 61.4 to 77.2 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 24.1 to 46.7 $\mu\text{g}/\text{m}^3$) values (PM10) in all 9 locations whereas values (PM2.5) in 6 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards.

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
					- Disposal Point – 1 (SWPS 3&5) - Disposal Point – 3 (SWPS 1&2) - Disposal Point – 2 (SWPS 4&6)	Noise quality monitoring conducted at 9 locations. Day time results ranges from 63.4 to 69.3 dBA and night time results ranges from 54.1 to 67.2 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 9 locations.
				29.01.2024 to 31.01.2024	- SWPS – 1 (Near Rly Quarters) - SWPS – 2 (Saraf Sump Well) - SWPS – 3 (Parmana Taal) - SWPS – 4 (Main Ginani) - SWPS – 5 (Near BSNL Office) - SWPS – 6 Near Hanuman Park - Disposal Point – 1 (SWPS 3&5) - Disposal Point – 3 (SWPS 1&2) - Disposal Point – 2 (SWPS 4&6)	- Air quality monitoring conducted at 9 locations and all results are within national standards for all parameters in all 9 locations, whereas PM10 (ranges from 60.4 to 73.1 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 23.1 to 30.3 $\mu\text{g}/\text{m}^3$) values (PM10) in all 9 locations whereas values (PM2.5) in 3 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 9 locations. Day time results ranges from 59.1 to 65.6 dBA and night time results ranges from 46.5 to 54.2 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 9 locations.
14	Barmer Wastewater subproject	Construction	- Air Quality, - Noise Quality, - Ground - Water Quality, - Soil Quality	01.03.2024 to 02.03.2024	- Kalam Ashram Road - Saharam Nagar Nehru Road - CRMC Building Mahavir Nagar	Air quality monitoring conducted at 3 locations and all results are within national standards for all parameters in all 3 locations, whereas PM10 (ranges from 72.1 to 78.5 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 23.7 to 26.3 $\mu\text{g}/\text{m}^3$) values (PM10) in all 3 locations whereas values (PM2.5) in 1 location is more than applicable ADB SPS limits.

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						All other parameters are within prescribed limits as per both standards. Noise quality monitoring conducted at 3 locations. Day time results ranges from 62.1 to 65.3 dBA and night time results ranges from 43.2 to 47.2 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 3 locations whereas during night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at 2 locations
15	Balotra Water supply & Wastewater Subproject		- Air Quality, - Noise Quality, - Ground Water Quality	01.03.2024 to 02.03.2024	- CRMC Building Samadary Road - Sewer Line Zone 02 Ward No. 37 - CRMC & MCC Building Luni River HW	- Air quality monitoring conducted at 3 locations and all results are within national standards for all parameters in all 3 locations, whereas PM10 (ranges from 74.5 to 77.7 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 25.1 to 26.2 $\mu\text{g}/\text{m}^3$) values (in all 3 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 3 locations. Day time results ranges from 61.4 to 64.4 dBA and night time results ranges from 42.3 to 44.1 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards at all 3 locations whereas noise quality results during night time were within national standards as well as ADB SPS recommended standards at all 3 locations

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
16	Bharatpur City Beautification subproject		- Air Quality, - Noise Quality, - Surface - Water Quality	18.12.2023 to 20.12.2023	- AT Laxman Mandir - At Hanuman Mandir Near Shaligram Kund - At Brijendra Bihari Kund - AT Town hall & Nehru park - Maharaja Surajmal park Fort Area	- 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 58.4 to 63.9 $\mu\text{g}/\text{m}^3$ and PM 2.5 (ranges from 22.4 to 26.5 $\mu\text{g}/\text{m}^3$) values (PM10) in all 4 locations whereas values (PM2.5) in 2 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 4 locations. Day time results ranges from 54.2 to 63.8 dBA and night time results ranges from 39.0 to 41.7 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at 3 locations whereas during night time, noise quality results were within prescribed limits as per both standards for residential areas at all 4 locations.
17	Sagwara City Beautification subproject		- Air Quality, - Noise Quality, - Ground Water Quality, - Soil Quality	28.03.2024	Temple Back Side	- Air quality monitoring conducted at 1 location and all results are within national standards for all parameters whereas PM10 was 92.3 $\mu\text{g}/\text{m}^3$ and PM 2.5 was 36.6 $\mu\text{g}/\text{m}^3$) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time result was 59.4 dBA and night time result was 54.5 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards.

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
18	Jaiselmer Beautification subproject		- Air Quality, - Noise Quality, - Ground Water Quality, - Soil Quality	27.03.2024	Near Uper Pal	- Air quality monitoring conducted at 1 location and results (PM10) are more than national standards whereas PM10 was 128.8 µg/m³ and PM 2.5 was 32.5 µg/m³) values are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time result was 52.8 dBA and night time result was 48.3 dBA. Results show that during day & night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards.

8. ASBESTOS MANAGEMENT

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

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

26. PMU have mobilized the ACM Management Expert (ACMME) and ACMME is preparing Asbestos Containing Material Management Plan (ACMMP) for the towns where the water supply is a component of subproject. The ACMMP for following towns has been prepared by ACM Expert: Nokha, Dungarpur, Sagwara, Bundi, Nathdwara and Nimbahera and the same is to be updated in IEEs for respective towns for submission to ADB and its approval. Contractors have already been made aware of hazards of ACM during pre-construction and during construction by ACM Expert in his site visit and trainings for ACM management is provided in all project towns.

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

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

Table 21- Summary of Site Visits

Site Visited Ratangarh (Drainage) in 30.10.2023

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
1.	Towns visited: Ratangarh (drainage) Person visited the Site: - Mr Ugrasen Kumar Environment Safeguard Support Staff CMSC -2) along with Mr. Bilal (Safety Engineer), RGI Meeting with: - Contractor Team Date of site Visit: 30.10.2023	Zone 05, (Precast Chamber) ,near Masjid, RGI ,Drainage work	
		Barricading is not available at working site and workers were found working without Helmet, Reflective jacket & safety shoes.	Before start any work it is necessary to do barricading to avoid any incident and It is mandatory to provide all PPE to every worker at site it is good practice to work with proper safety PPE. PPE use assured.
		Ginani, forest area (RGI,Drainage work)	
		Near Ginani (RGI,Drainage work) Labour were found working without any PPE	It is mandatory to provide all PPE to every worker at site it is good practice to work with proper safety PPE. PPE use assured.
		First Aid Kit was Available at the near main ginani forest area during drainage work	Good Practice

Site Visited Ratangarh (Drainage) in 21.11.2023

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
2.	Towns visited: Ratangarh (drainage) Person visited the Site: - Mr Ugrasen Kumar Environment Safeguard Support Staff CMSC -2) along with Mr. Bilal (Safety Engineer), RGI Meeting with: - Mr. O.P Bairwa AEn, PIU, RUIDP - Mr. Pankaj Kumar Jha, ACM, CMSC-II - Mayank Prajapat, Support Engineer, CMSC-II - Devesh Atreya, Support Engineer, CMSC-II - Avdhesh Dixit, Support Engineer, CMSC-II - Bhuvnesh Chaudhary, Support Engineer, CMSC-II Date of site Visit: 01.11.2023 to 29.11.2023	Pipe Laying Work ,RGI ,NH Highway ,Sardarsahar Road	
		- Project Information Board is available at the site. - Barricading board is available with safety instruction.	Good practice to prevent unauthorized entry into to hazardous area at construction site
		all workers were found with Helmet, & safety shoes	Good practice
		First aid box was available at pipe laying site	- Good Practice and mandatory to have first aid kit at site. - Maintain content items of First AID box according to the list given provide by RUIDP
		RWR Work RGI, Site Near N.H Highway	
		Soil Excavation work is under progress .driver were working with PPE	Good Practice

Site Visited Ratangarh (Drainage) in 12.12.2023

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
3.	Towns visited: Ratangarh (drainage) Person visited the Site: Mr Ugrasen Kumar Environment Safeguard Support Staff CMSC -2) along with Mr. Bilal (Safety Engineer), RGI Meeting with: Contractor Team Date of site Visit: 12.12.2023		
		PIPE LAYING WORK, SARDARSAHAR ROAD	
		- Project Information Board is available at the site. - Barricading board is available with safety instruction.	Good practice to prevent unauthorized entry into to hazardous area at construction site
		all workers were found with Helmet, & safety shoes	Good practice
		Water Sprinkling on road to Prevent from the Dust particle	Good practice
		RWR WORK RGI, SITE NEAR N.H HIGHWAY	
		Project Information Board is available at the site.	Good practice to prevent unauthorized entry into to hazardous area at construction site
		there is net barricading around the soil excavation work area.	Good practice to prevent unauthorized entry into to hazardous area at construction site
		all workers were found with Helmet, & safety shoes	Good practice

Site Visited Barmer & Balotra on dated 21.12.2023

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
4.	Towns visited: Barmer & Balotra Person visited the Site: - Mr. Mahaveer Prasad Saini (Environment Safeguard Professional of CMSC -2) Meeting with: - Sanjay Mathur (Superintending engineer, RUIDP-PIU, Balotra), - Mr. Narsingh Choudhary (Executive Engineer, RUIDP-PIU, Barmer), - Mr. Shashikant Sharma (Assistant Engineer, RUIDP-PIU, Barmer), - Mr. Natarajan S. (ACM/SCE -CMSC-II, Balotra), - Mr. Devilal Choudhry (Support Engineers-CMSC-2, Barmer), - Mr. Doonga Ram (Support Engineers-CMSC-2, Barmer), - Mr. Anil Singh (DTL, CAPP Jaipur), - Mr. Chiranjeelal (Gender Specialist, CAPP Jaipur), - Mr. Harlal Singh (Project Manager, Contractor Firm Barmer- M/s GCKC), Date of site Visit: 21.12.2023	- Contractual & Legal Requirements - Site visit Observation Report - Environment, Health and Safety documentation record.	- All Legal, Contractual and Environmental Regulatory documents should be updated and all legal permission from their concerned department should be obtained timely without any delay. Also, directed to contractor team to prepare all Environments, Health and Safety formats in a proper manner and keep updates on monthly basis. - Site specific observation and their control measures discussed with them and directed the contractor to implement the same on urgent basis. - Directed to contractor that prepare all the Environment, Health and Safety documentation on monthly basis and keep updating all documentation in proper manner for record purpose.

Site Visited Barmer on dated 28.02.2024

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
5.	Towns visited: Barmer Person visited the Site: • Mahaveer Prasad Saini (Environment Safeguard Professional of CMSC - 2) • Mayank Kumar Vyas Environment Safeguard Support Staff CMSC -2) Meeting with: • Mr. Mr. Bhavani Singh (Assistant Engineer, RUIDP-PIU, Barmer)), • Mr. Shashikant Sharma (Assistant Engineer, RUIDP-PIU, Barmer), • Mr. Devilal Choudhry (Support Engineers-CMSC-2, Barmer), • Mr. Dharamver (Project Manager, Contractor Firm Barmer/M/s GCKC), Date of site Visit: 28.02.2024	• Contractual & Legal Requirements.	• All Legal, Contractual and Environmental Regulatory documents should be updated and all legal permission from their concerned department should be obtained timely without any delay. Also, directed to contractor team to prepare all Environments, Health and Safety formats in a proper manner and keep updates on monthly basis.
		• Site visit Observation Report	• Site specific observation and their control measures discussed with them and directed the contractor to implement the same on urgent basis.
		• Environment, Health and Safety documentation record.	• Directed to contractor that prepare all the Environment, Health and Safety documentation on monthly basis and keep updating all documentation in proper manner for record purpose.
		• Environment, Health and Safety, Site specific issues & Medical Health Check-up of Labour and Site Staff.	• Site staff and site workers medical health check-up is mandatory and it will be carried out on monthly basis. So, directed to organized medical health check-up camp at site to meet the compliance status.

Site Visited Ratangarh Drainage 12.02.2024

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
6.	Towns visited: Ratangarh (drainage) Person visited the Site: - Mr Ugrasen Kumar Environment Safeguard Support Staff CMSC -2) along with Mr. Bilal (Safety Engineer), RGI Meeting with: - Mr. O.P Bairwa AEN, PIU, RUIDP - Mr. Pankaj Kumar Jha, ACM, CMSC-II Date of site Visit: 12.02.2024	- Stake holding meeting - NH Permission - Quarterly Environment monitoring Report - Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines - Site visit Observation Report - Environment, Health and Safety Site specific issues & Labour and Site Staff Medical Health Check-up - Environment, Health and Safety documentation record. - Training / orientation to worker working at site. - Environment, Health and Safety documentation record	- Letter issue to concern department regarding to conduct stake holding meeting - Contractor assured the permission for National Highway crossing is under process. - Contractor Conducted Auarterly Environmental Monitoring and test reports submitted to PMCBC for further review and submission to ADB. - Letter issued to concern dept. to submit the All Legal, Contractual and Environmental Regulatory documents of Ratangarh - Site specific observation and their control measures disused with them and directed to contractor to implement the same on urgent basis and submit compliance report at earliest. - Site staff and site workers medical health check-up is mandatory and it will be carried out on monthly basis. So, directed to organized medical health check-up camp at site to meet the compliance status - Directed to contractor that prepare all the Environment, Health and Safety documentation on monthly basis and keep updating all documentation in proper manner for record purpose. - Training / orientation on safety conducted to workers working at site. - Directed to contractor that prepare all the Environment, Health and Safety documentation on monthly basis and keep updating all documentation in proper manner for record purpose.

Site Visited Ratangarh Drainage February 2024

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
7.	Towns visited: Bundi (drainage) Person visited the Site: - Naresh Mahawar Environment Safeguard Support Staff CMSC -1) Meeting with: - Mr. Pankaj Nautiyal, PM, RGI - Mr. Abdul Jabbar, Safety Engineer, RGI Date of site Visit: February 2024	BOCW Registration	For Safe & Healthy Environment of workers need to this registration regulatory compliances documents requirement for compliances of environment policy of ADB SPS 20229 guidelines.
		Public Safety	Discuss and visited Lanka gate road for barricading of excavated area for public safety as per ADB SPS 2009 policy.
		Labor Camp Facilities	As per ADB SPS 20229 guidelines, contractor has to provide all labor welfare facilities to their all workers in labor camp area. Required facilities for labor camp was discussed with contractor team & instructed to fulfill required criteria.
		Environment Health & Safety site Specific issues	Visited RMC plant regarding EHS activities during this visited material yard and labor training for using PPE kit always working on site and discussion also on health as per ADB SPS 20229 guidelines.

Site Visited Bundi (Water Supply & Wastewater works) dated 07.03.2024

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
8.	Towns visited: Bundi (WS & WW) Person visited the Site: - Mr. Vardan Srivastava, Environmental Safeguard Professional, CMSC-01, Jaipur Meeting with: - Mr. Dheeraj Jhangid, Senior Construction Engineer, CMSC-01, Jaipur - Mr. Lal Singh, Project Coordinator, M/s Khilari Infra.Bundi Date of site Visit: 07.03.2024	Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines	For safe and healthy Environment of workers need to this registration Regulatory Compliances documents requirement for compliance of Environment policy of ADB SPS-2009 guidelines.
		Discussion on development of the reuse plan of treated wastewater of STP.	Consent to Establish (CTE) has been applied for Water Treatment plant (8 MLD)
		Material Stacking and Housekeeping issues at site	As per ADB-SPS 2009 guidelines, contractor has to provide all labour welfare facilities to their all workers in labour camp area. Required facilities for labour camp was discussed with contractor team and instructed to fulfil required criteria
		Environment, Health and Safety site specific issues	Visited STP Plant regarding EHS activity during this visited material yard and labour training for using PPE kit always working on site and discussion also on health as per ADB-SPS 2009 guidelines.
		Health & Site safety	Discussed on ensure proper site safety at working Site and organized medical health check-up for workers at site.
		Document preparation for Online application for Consent to Establish (CTE) from Rajasthan Pollution Control Board (RSPCB).	Being Complied
		Fire Extinguisher was not placed in designated area.	EHS Officer make ensure that Fire extinguisher should be well placed and marked with Expiry date. Same is done.
		Barricading not done after excavation	Proper Barricading made.

Site Visited Bundi (Water Supply & Wastewater works) dated 28.03.2024

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
9.	Towns visited:		

Ratangarh (Drainage) Person visited the Site: • Dr. Mahavir Saini (Environment Safeguard Professional CMSC - 2), Jodhpur • Ugrasen Kumar (Environmental Safeguard Support Staff, CMSC-II), • Meeting with: • Mr. Mr. R. D. Garg (EXN-PIU RUIDP, Ratangarh), • Mr. Pradeep Kumar Jha (ACM, CMSC-II, Ratangarh), • Mr. Virendra Kumar Gupta (General Manager, Contractor Firm storm water sub-project, Ratangarh) Date of site Visit: 28.03.2024	• Contractual & Legal Requirements.	• All Legal, Contractual and Environmental Regulatory documents should be updated and all legal permission from their concerned department should be obtained timely without any delay. Also, directed to contractor team to prepare all Environments, Health and Safety formats in a proper manner and keep updates on monthly basis.
	• Site visit Observation Report	• Site specific observation and their control measures discussed with them and directed the contractor to implement the same on urgent basis.
	• Environment, Health and Safety documentation record.	• Directed to contractor that prepare all the Environment, Health and Safety documentation on monthly basis and keep updating all documentation in proper manner for record purpose.
	• Environment, Health and Safety, Site specific issues & Medical Health Check-up of Labour and Site Staff.	• Site staff and site workers medical health check-up is mandatory and it will be carried out on monthly basis. So, directed to organized medical health check-up camp at site to meet the compliance status.
	• Safety Training/ Orientation to workers at Site.	• Conducted Safety Training/ Orientation to workers at Site and discussed about Personal Safety Equipment's, Occupational and community health and safety and Safety during working at height.
	10 MLD SWPS, Near BSNL Office, Ratangarh	
	• Project information Board was not found in right position and right place at construction site	• Project information Board must be at right place and in right position.
	• No adequate hard barricading was observed around deep excavated area, whereas Iron bar rods were used for barricading that may be cause of accident.	• Hard Barricading along with night reflector & warning information, must be provided around the deep excavated area. Minimum 1.5 m distance should maintained between edge of well and barricading.
	• Open electrical circuit was observed that may be cause of any electrical hazard.	• Closed electrical circuit connection maintained at site to avoid any electrical shock.

		There is no Emergency helpline and toll free number on work progress and project information boards	Project information board and emergency helpline no. on work progress/ guide sign boards for public awareness and any emergency help line made available.
		First aid box is not available at construction site	First aid box at construction site to provided.
		No walk ramp was available in the slope area of the construction site to avoid any sleep/fall in open excavated area.	Walk ramp provide in the slope area to control any misshaping/accident during the work activities.
		4.6 MLD SWPS ,Near Parmana Taal	
		Project information Board is available at visible location	Good practice to place information board at the entrance in visible manner
		Safety sign board and emergency assembly points are observed at site.	It is a good practice and it should be maintained at other locations also.
		Some of workers were found working without adequate PEEs like helmet gloves and goggles	Provide adequate PPE as per requirement of work and site.
		- First Aid Kit box was available at the site but essential medical items were missing. - with following missing items; Antiseptic wipes & solution, scissors & tweezer, bandages, , disposable gloves etc.	First Aid Kit with essential items kept in place
		Poor housekeeping was found at Construction site. Construction material and other construction material were found at site.	Contractor made working area should be neat and clean with right place, right time and right item.
		Dustbins are found at construction site and labour rest room.	Provide dustbin for the disposal of food waste, plastic & paper waste and metal scrap waste with Color combination and Solid Waste Management Banner/Board
		No mobile toilet facility was observed at site that is mandatory for site.	Mobile toilet facility provided at site by contractor.
		Site Visited Ratangarh Drainage dated 13.03.2024	
S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
10.	Towns visited: Ratangarh (Drainage) Person visited the Site: Ugrasen Kumar (Environmental	Environment Management Plant(SEMP)	SEMP Observation Report Correction work is under Process
		Stake holding meeting	Letter issue to concern department regarding to conduct stake holding meeting

Safeguard Support Staff, CMSC-II), • Meeting with: • Mr. Mr. R. D. Garg (EXN-PIU RUIDP, Ratangarh), • Mr. O.P Bairwa Assistant Engineer, PIU, Ratangarh • Mr. Pankaj Kumar Jha (ACM, CMSC-II, Ratangarh),) Date of site Visit: 13.03.2024	• NH Permission	• Under process
	• Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines	• Letter issues to concern dept. to submit the All Legal, Contractual and Environmental Regulatory documents of ratangarh
	• Site visit Observation Report	• Site specific observation and their control measures disused with them and directed to contractor to implement the same on urgent basis.
	• Environment, Health and Safety Site specific issues & Labour and Site Staff Medical Health Check-up	• Site staff and site workers medical health check-up is mandatory and it will be carried out on monthly basis. So, directed to organized medical health check-up camp at site to meet the compliance status
	• Environment, Health and Safety documentation record	• Directed to contractor that prepare all the Environment, Health and Safety documentation on monthly basis and keep updating all documentation in proper manner for record purpose.
	• Site Visit Report	• Directed to contractor that prepare Site visit report according to format given
	10 MLD SWPS, Main Ginani	
	• Project information Board is available at site.	• Good practice to have project information board at the entrance in visible manner.
	• Hard barricading was found missing on the edge of excavated area.	• Make ensure that hard barricading should be provide at least 1.5 m distance from excavated edge area so that distance shall be maintain.
	• It was observed that There is no barricading is available at the lake side area of SWPS	• Hard barricading & Safety caution belt provided.
	• It was found that There is no Walk Ramp is available in the Slope area of the construction site may cause accident	• Provided walk Ramp in this slope area to minimize any misshaping/accident during the work activities.
	• First Aid Kit was not Available at the site.	• It is mandatory to have first aid kit at site. With mentioned list. provide antiseptic wipes & solution, scissors & tweezer, bandages, Ointment gel, Disposable gloves
	• Water cane facility is available at the site	• It is a Good Practice to have drinking Facility at the working site

		It was observed that there is no safety instruction/information & EHS Policy Board/banner is available at the site	EHS Office make ensure to provided safety information and EHS PolicyBoard/banner at site
		10 MLD SWPS ,Near BSNL Office	
		Project information Board is available at site with visible place but It is not in fixed place	EHS officer Make ensure that project information should be provided in fixed location
		It Was observed that there is no safety barrication around the boundary of SWPS	Make ensure that barricading should be provided to this area
		Hard barricading was found missing around the Pit Area. Local Vehicle is moving around this pathway	Hard barricading provided to minimize the Risk of accident.
		4.6 MLD SWPS ,Near Parmana Taal	
		Project information Board is available at visible location	Good practice to place information board at the entrance in visible manner
		It was observed that hard barricading is available around the construction area	It is a good practice to have barricading around the work place .it will help to restrict unauthorized entry and minimize the risk of accident at the working site.
		Safety sign board and Emergency Assembly point is observed that	It is a good Practice to have Safety sign Board and Emergency Assembly point
		During The site Visit It observed that some of workers were found working without Safety Helmet & Safety shoes	Use of PPE assured.
		It was found that Electrical connection they are taking from nearby temple with Open cablejoint is found that. It may cause accident	Electrical Connection is taken from D.G set.
		Poor housekeeping was found at Construction site. Construction material and other construction material was found at site.	EHS officer, make ensure that all working area should be neat and clean and worker should provide safety training on importance of housekeeping at site
		Solid waste management plan poster/banner and for waste disposal dustbin is not available	Dustbin for the disposal of food waste ,plastic & paper waste provided.
		It observed that there is no mobile Toilet facility is available at the working site.	It is mandatory to have toilet facilities available at the working site. EHS Officer assured to provide Mobile toilet facility is at working site

Site Visited Bundi Drainage & WS WW works during March 2024

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
11.	Towns visited: Bundi Drainage & WS & WW Person visited the Site: Mr. Naresh Mahawer, Gender, Social Safeguard and Environmental Support Staff, CMSC-01 RUIDP Bundi Meeting with: Contactor Team Labour Meeting at STP Date of site Visit: March 2024	Discussion on development of the reuse plan of treated wasteater of STP	Discussed on reuse water line laying plan after MoU with Farmer
		Material Stacking and Houskeeping issue at site	Discuss on ensure proper housekeeping at structure site and availability of PPE kit according to working labour and store all loose material to cover as per ADB-SPS 2009 guidelines
		Environmental issue	Discussed on ensure proper environment monitoring test regularly and on working day
		Health and Safety issue	Discussed on ensure proper site safety at working site and organised health check-up for workers as per ADB-SPS 2009 guidelines.
		Labour Camp Facilities	Discussed about the provide facilities by contractor and use safety PPE kit on working site, aware them health and sanitization.
		Water Supply Project	
		Without Harness using work on Height	EHS Officer assured use of harness for labour at working height as per ADB SPS 2009 guidelines
		Housekeeping work left after laying pipeline	EHS Officer ensured to pick- up the material and waste soil.
		Poor Houskeeping found at Site of Road Restoration	Proper Housekeeping done

Site Visited Dungarpur dated 12.03.2024

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
12.	Towns visited: Dungarpur Person visited the Site: Mr. Ram Singh Yadav (Environmental Safeguard Support) along with Support Engineers CMSC-2 Dungarpur Meeting with: Contactor Team Date of site Visit: 12.03.2024	Adarsh Nagar	
		No information board, no barricading, was observed at working site.	Adequate barricading with proper display board provided at working site.
		labour was without safety equipment's, observed at site the working such as Helmet, shoes, and safety jacket etc.	Use of PPE assured
		Location: - New Colony	
		labour was without safety equipment's, observed at site the working such as Helmet, shoes, and safety jacket etc.	Use of PPE assured
		Proper barricading , project information board and toll free number was observed at the working site.	Good practice of site management.
		Bhoiwada Old City	
		labour was without safety equipment's, observed at site the working such as Helmet, shoes, and safety jacket etc.	Use of PPE assured
		Chamapuran Mohalla Ghati (Old City)	
		Labour was without safety equipment's, observed at site the working such as Helmet, shoes, and safety jacket etc.	Use of PPE assured
		First aid box not available in working site.	First Aid box provided.
		Drinking water and grievance register is not available at the working site.	Drinking water and grievance register provided at working site.

Site Visited Jodhpur (drainage) dated 14.03.2024

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
13.	Towns visited: Jodhpur Drainage Person visited the Site: • Mr. Mayank Vyas Environment Safeguard Support Staff- CMSC -2, Jodhpur) (Drainage Project) Meeting with: Contactor Team Date of site Visit: 14.03.2024	Contractual & Legal Requirements	All Legal, Contractual and Environmental Regulatory documents should be updated and all legal permission from their concerned department should be obtained timely without any delay. Also, directed to contractor team to prepare all Environments, Health and Safety formats in a proper manner and keep updates on monthly basis.
		Site visit Observation Report	Site specific observation and their control measures discussed with them and directed the contractor to implement the same on urgent basis.
		Environment, Health and Safety documentation record.	Directed to contractor that prepare all the Environment, Health and Safety documentation on monthly basis and keep updating all documentation in proper manner for record purpose.
		Environment, Health and Safety, Site specific issues & Medical Health Check-up of Labour and Site Staff.	Site staff and site workers medical health check-up is mandatory and it will be carried out on monthly basis. So, directed to organized medical health check-up camp at site to meet the compliance status.
		Safety Training/ Orientation to workers at Site.	Conducted Safety Training/ Orientation to workers at Site and discussed about Personal Safety Equipment's, Occupational and community health and safety and Safety during working at height.
		Location: - Chainage No. 6610 m	
		In hazardous storage area, fuel drums store without dip tray protection on ground area and that may be cause of ground spillage and leads to soil contamination	Contractor ensured hazardous fuels, oil drums placed on proper dip tray protection on ground surface area with proper display of Material Safety Data Sheet (MSDS) in storage area
		Hard barrication was found missing on the edge excavated area	Hard barrication provide at least 1.5 m distance from excavated edge area so that distance shall be maintain

Site Visited Jodhpur (Wastewater) dated 15.03.2024

S.N.	Town visited, date of visit and name of person conducted site visit	Topics of discussion	Outcome
14.	Towns visited: Jodhpur Wastewater Person visited the Site: • Mr. Mayank Vyas Environment Safeguard Support Staff- CMSC -2, Jodhpur) (Drainage Project) Meeting with: Contactor Team Date of site Visit: 15.03.2024	• CTE Application for proposed STP • Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines	• Being Complied. • All Legal, Contractual and Environmental Regulatory documents should be updated and all legal permission from their concerned department should be obtained timely without any delay. Also, directed to contractor team to prepare all Environments, Health and Safety formats in a proper manner and keep updates on monthly basis.
		• Site visit Observation Report	• Site specific observation and their control measures disused with them and directed to contractor to implement the same on urgent basis.
		• Environment, Health and Safety Site specific issues & Labour and Site Staff Medical Health Check-up	• Site staff and site workers medical health check-up is mandatory and it will be carried out on monthly basis. So, directed to organized medical health check-up camp at site to meet the compliance status
		• Environment, Health and Safety documentation record	• Directed to contractor that prepare all the Environment, Health and Safety documentation on monthly basis and keep updating all documentation in proper manner for record purpose.
		Siwanchi gate to balwadi Pipe laying work @300mm dia	
		• No hard barrication was found at working site	• EHS officer ensured that all excavated structural area provide hard barrication at site with proper safety signage board display at site
		• Worker work at site without PPE kit	• Use of PPE assured by workers at site

10. ORIENTATIONS FOR SAFEGUARDS

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

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

29. Environmental safeguard orientations at Barmer, Balotra, Ratangarh, Bundi & Jodhpur sub project towns was done during this reporting period.

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

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

32. During the reporting period following safeguard orientations were done by CMSC environmental safeguard Professionals is given in **Table 22** below.

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

S. No.	Orientation/Training	Date	Demonstrators	Participants
1	Town: Barmer			
	Orientation regarding requirements of environmental safeguard during project implementation	21.12.2023	Mr. Mahavir Prasad Saini Environment Safeguard professional CMSC-II, Jodhpur	PIU: 1.Sanjay Mathur (Superintending Engineer, RUIDP-PIU, Balotra) 2.Mr. Narsingh Choudhary (Executive Engineer, RUIDP-PIU, Barmer) 3.Mr. Shashikant Sharma (Assistant Engineer, RUIDP-PIU, Barmer) Consultant (CMSC-II): 1.Mr. Natarajan S. (ACM/SCE -CMSC-II, Balotra), 2.Mr. Devilal Choudhry (Support Engineers-CMSC-2, Barmer), 3.Mr. Doonga Ram (Support Engineers-CMSC-2, Barmer), 4.Mr. Anil Singh (DTL, CAPP Jaipur), 5.Mr. Chiranjeelal (Gender Specialist, CAPP Jaipur), Contractor: 1.Mr. Harlal Singh (Project Manager, Contractor Firm Barmer- M/s GCKC), 2.Workers Total Participants- 17 Male-17 Female-0
2.	Town: Balotra			
	Orientation regarding requirements of environmental safeguard during project implementation	22.12.2023	Mr. Mahavir Prasad Saini Environment Safeguard professional CMSC-II, Jodhpur	PIU: 1.Sanjay Mathur (Superintending Engineer, RUIDP-PIU, Balotra) Consultant (CMSC-II): 1.Mr. Natarajan S. (ACM/SCE -CMSC-II, Balotra), 2.Mr. Joga Ram (Support Engineers-CMSC-2, Balotra), 3.Mr Amit Gupta, (Support Engineers-CMSC-2, Balotra), 4.Mr. Anil Singh (DTL, CAPP Jaipur), 5.Mr. Chiranjeelal (Gender Specialist, CAPP Jaipur), Contractor: 1.Mr. Ram Lal Chaudhary (Project Manager, Contractor Firm Barmer- M/s GCKC), 2.Mohd Yusuf Site Engineer 3.Sandeep Jain, Accountant, 4.Rajendra Singh, Computer Operator 5.Workers

S. No.	Orientation/Training	Date	Demonstrators	Participants
				Total Participants- 21 Male-21 Female-00
3	Town: Barmer			
	Orientation regarding requirements of environmental safeguard during project implementation	28.02.2024	Mr. Mahavir Prasad Saini Environment Safeguard professional CMSC-II, Jodhpur Mayank Kumar Vyas Environment Safeguard Support Staff CMSC -2)	PIU: - Mr. Mr. Bhavani Singh (Assistant Engineer, RUIDP-PIU, Barmer)), - Mr. Shashikant Sharma (Assistant Engineer, RUIDP-PIU, Barmer), - Mr. Dharamver (Project Manager, Contractor Firm Barmer/M/s GCKC), Consultant (CMSC-II): - Mr. Devilal Choudhry (Support Engineers-CMSC-2, Barmer), Contractor: - Mr. Dharamver (Project Manager, Contractor Firm Barmer/M/s GCKC), - Workers Total Participants- 09 Male-09 Female-00
4.	Town: Balotra			
	Orientation regarding requirements of environmental safeguard during project implementation	29.02.2024	Mr. Mahavir Prasad Saini Environment Safeguard professional CMSC-II, Jodhpur Mayank Kumar Vyas Environment Safeguard Support Staff CMSC -2)	Consultant (CMSC-II): 1.Mr. Mahavir Prasad Saini Environment Safeguard professional CMSC-II, Jodhpur 2.Mayank Kumar Vyas Environment Safeguard Support Staff CMSC -2) Contractor: 1. Mohd Yusuf Site Engineer 2. Workers Total Participants- 10 Male-09, Female-01
5.	Town: Ratangarh Drainage works			
	Orientation regarding requirements of environmental safeguard during project implementation	29.02.2024	Mr Ugrasen Kumar Environment Safeguard Support Staff CMSC -2)	PIU: - Mr. O.P Bairwa AEn, PIU, Ratangarh Consultant (CMSC-II): - Mr. Pankaj K. Jha, Assistant Contract Manager (ACM), CMSC - 02, Ratangarh - Mr Ugrasen Kumar Environment Safeguard Support Staff CMSC -2) Contractor: - Mr Bilal EHS officer, M/s RGI - Workers

S. No.	Orientation/Training	Date	Demonstrators	Participants
				Total Participants- 11 Male-11, Female-0
6.	Town: Bundi			
	Orientation regarding requirements of environmental safeguard during project implementation	24.02.2024	Mr Naresh Mahawar Gender, Social & Environment Safeguard Support Staff CMSC -1)	Consultant (CMSC-I): • Mr Sanjiv Gupta Social Safeguard Support Staff CMSC -1) • Mr Naresh mahawar, Gender, Social, Env. Safeguard Support Staff CMSC -1) CAPP: • Mr Shrikant Sharma, ASD Expert, Nathdwara • Mrs. Krishna Saini ASD, CAPP, Bundi Contractor: • Mr Pankaj Nautiyal, Project Manager, RGI • Abdul Kadir, Safety Engineer • Sourav Sharma, SOT • Mrs Himani Gautam, SOT • Workers Total Participants- 11 Male-9, Female-2
7.	Town: Bundi			
	Orientation regarding requirements of environmental safeguard during project implementation	07.03.2024	Mr. Vardan Srivastava, Environmental Safeguard Professional, CMSC-01, Jaipur	Consultant (CMSC-I): • Mr. Dheeraj Jhangid, Senior Construction Engineer, CMSC-01, Jaipur Contractor: • Mr. Lal Singh, Project Coordinator, M/s Khilari Infra.Bundi • Safety Engineers: • Site Engineer & Workers: Total Participants- 15 Male-15, Female-0
8.	Ratangarh Drainage works			
	Orientation regarding requirements of environmental safeguard during project implementation	29.02.2024	Mr Ugrasen Kumar Environment Safeguard Support Staff CMSC -2)	PIU: • Mr. R.D Garg, Executive Engineer, PIU, Ratangarh • Mr. O.P Bairwa, Assistant Engineer, PIU, Ratangarh Consultant (CMSC-I): • Mr. Pankaj Kumar Jha , Assistant Contract Manager (ACM), CMSC - 02, Ratangarh • Contractor: • Mr Bilal EHS officer, M/s RGI • Workers Total Participants- 05 Male-05, Female-0

S. No.	Orientation/Training	Date	Demonstrators	Participants
9.	Town: Bundi			
	Orientation regarding requirements of environmental safeguard during project implementation	16.03.2024	Mr Naresh Mahawar Gender, Social & Environment Safeguard Support Staff CMSC -1)	PIU: - Mr. Kush Kumar, Junior Engineer PIU Bundi Consultant (CMSC-I): - Mr Naresh mahawar, Gender, Social, Env. Safeguard Support Staff CMSC -1) Contractor: - Rahul Saini, Safety Officer M/s KIPL - Lavesh Nagda, Sotre Incharge - Mr. Bheru Lal Meena, Site Engineer, - Lekhraj Meena, Site Engineer, - Mrs. Babita Jangid, Social Outreach Team (SOT) - Ms. Laxmi Meena, SOT - Workers Total Participants- 14 Male-4, Female-0
10.	Town: Jodhpur (Drainage work)			
	Orientation regarding requirements of environmental safeguard during project implementation	14.03.2024	Mr. Mayank Kumar Vyas Environment Safeguard Support Staff CMSC -2)	Consultant (CMSC-II): - Rohan Bissa (Support Engineers-CMSC-2, Jodhpur), Contractor: - Vasudev Parmer (site Engineer) - Workers Total Participants- 15 Male-15, Female-0
11.	Town: Jodhpur (Wastewater work)			
	Orientation regarding requirements of environmental safeguard during project implementation	15.03.2024	Mr. Mayank Kumar Vyas Environment Safeguard Support Staff CMSC -2)	Consultant (CMSC-II): - Mr. Vikash vyas (Support Engineers-CMSC-2, JODHPUR CAPP: - Mr. Sant Lal (Capp Jodhpur), Contractor: - Jai Prakash Saini (EHS Officer) - Workers Total Participants- 9 Male-9, Female-0

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

11. PUBLIC CONSULTATION & GRIEVANCE REDRESS MECHANISM

A. Public Consultation

33. Public consultations are being conducted by environmental safeguard professionals and environment safeguard support of CMSC through site visits which includes public consultations with project stakeholders including residents and shop owners, road users, public representatives etc, Summary of consultations done during reporting period is given in following **Table 23**.

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

S. No.	Date and place of consultation	Persons consulted	Topics discussed during consultation	Outcome of consultation
1	12.02.2024 Main Ginani, Ratangarh Drainage works	• Total person Consulted: 9 Male: 9 Female: 0	• Any Grievance due to laying of Drainage pipeline and other road construction work activities.	• Local residences are satisfied with project site work and appreciate the site work.
2	06.02.2024 Silor Road Bundi	• Total person Consulted: 9 Male: 9 Female: 0	• Any Grievance due to laying of Drainage pipeline and other road construction work activities.	• Local Public appreciated RUIDP project works.
3.	14.03.2024 Main Ginani, Ratangarh Drainage works	• Total person Consulted: 10 Male: 10 Female: 0	• Any Grievance due to laying of Drainage pipeline and other road construction work activities.	• Local residences are satisfied with project site work and appreciate the site work.
4.	16.03.2024 Ramganj Balaji, Momiyaon ka Nohara, Kagdi devra & Chota Bazar	• Total person Consulted: 10 Male: 9 Female: 1	• Discussion with farmers & local public regarding road restoration work at ramganj balaji.	• Farmer agree to reuse Water and Local public appreciated RUIDP project work.

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

B. PROJECT-SPECIFIC GRIEVANCE REDRESS MECHANISM

34. 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)² the system was effective in timely resolution of grievances

² 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

in a transparent manner.³ 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.⁴

35. **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.

36. 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.

37. **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 site⁵ or by sending a Whatsapp message to the PIU⁶ or by dialling the phone number of town level PIU/CAPPC or by dialling a toll-free number.⁷ 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

(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.

³ 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.

⁴ Continued logistics support at field level will be key to successful management of grievance redress under RSTDSP. The target date for establishment of the first level (PIU level) and second level (Zonal level) of GRM is before loan negotiation.

⁵ 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.

⁶ 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.

⁷ Project contractors in all project towns will have a toll-free number with specific working hours for registration of grievances related to RSTDSP.

of grievance registration, in addition to the project GRM.⁸ Careful documentation of the name of the complainant, date of receipt of the complaint, address/contact details of the person, location of the problem area, and how the problem was resolved will be undertaken and feedback provided to the complainant on action/decision taken. The Safeguard and Safety Officer of town/city level PIU will have the overall responsibility for timely grievance redressal on environmental and social safeguards issues and for registration of grievances, related disclosure, with the assistance of project consultants. In case of grievances that are immediate and urgent in the perception of the complainant, the contractor, and officials of PIU with assistance from construction management and supervision consultants (CMSC) and CAPPC on-site will provide the most easily accessible or first level of contact for quick resolution of grievances. Contact numbers and names of the concerned PIU safeguard and safety officer, contractors, CAPPC and CMSC personal will be posted at all construction sites at visible locations.

- (i) **1st level grievance.** The contractors, PIU Executive Engineer (EE)/Assistant Engineer (AE) designated as safeguard and safety officer (social and environment), CMSC (safeguard staff) and CAPPC can immediately resolve issues on-site, in consultation with each other and will be required to do so within 7 days of receipt of a complaint/grievance. If required, city level monitoring committee (CLMC)⁹ will be involved in resolution of grievances at the 1st level.
- (ii) **2nd level grievance.** All grievances that cannot be redressed within 7 days at field/PIU level will be brought to the notice of Zonal PIU headed by Additional Chief Engineer (ACE). The ACE at zonal PIU will resolve the grievance within 7 days of receipt of complaint/grievance in discussion with the ASO, field level PIU, CMSC, CAPPC and the contractor.
- (iii) **3rd level grievance.** All the grievances that are not addressed by Zonal PIU within 7 days of receipt will be brought to the notice of the PMU. Depending on the nature of grievance, the Project Officer (Social/Environment) at PMU will resolve the grievance within 15 days of receipt of grievance with necessary coordination of Zonal PIU and CMSC and guidance/instruction of Additional Project Director (APD-PMU).
- (iv) Grievances not redressed through this process within/at the project level within stipulated time period will be referred to the CLC/GRC, which has been set up.¹⁰ In its role as a GRC, the CLC will meet whenever there is an urgent, pending grievance.

⁸ <http://www.sampark.rajasthan.gov.in/RajSamWelcome.aspx>

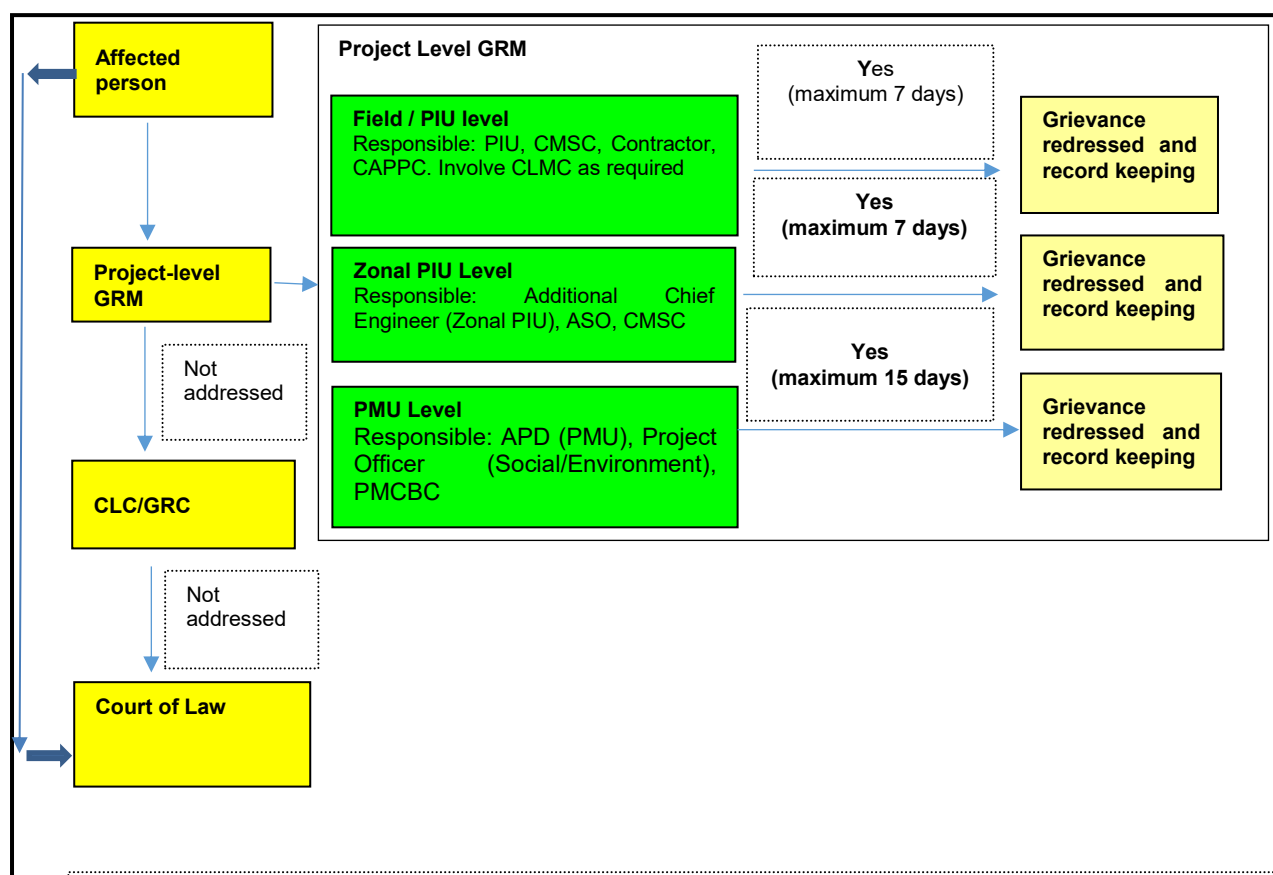
⁹ The CLMC has been formed at the town/city level for planning and monitoring of work, resolve issues related to departmental coordination etc. It is headed by Commissioner/Executive Officer ULB (Chairman) and city engineer of public health engineering department (PHED), public works department (PWD) and head of PIU acting as Member Secretary.

¹⁰ 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.

Other grievances can be discussed during its regular meetings. Zonal PIU will inform the CLC regarding any grievances required to be resolved urgently. The GRC will resolve the grievance within 15 days of receiving the complaint. In case of any indigenous peoples impacts in subprojects, the CLC/GRC must have representation of the affected indigenous people community, the chief of the tribe or a member of the tribal council as traditional arbitrator (to ensure that traditional grievance redress systems are integrated) and an NGO working with indigenous people groups.

- (v) The multi-tier GRM for the project is outlined below (**Figure 2**), 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.

38. 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), 2013.¹¹

39. 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 Mechanism¹²..

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

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

42. There were no grievance pertaining environmental safeguard till the end of reporting period.

¹¹ The Authority admits grievance only with reference to the Land Acquisition and R&R issues under the RFCTLARRA, 2013.

¹² Accountability Mechanism. <http://www.adb.org/Accountability-Mechanism/default.asp>.

Table- 24: Details of GRC Members

GRC Members (Grievance redressal committee members)								
Town Name	1st Level GRC Members					2nd Level GRC Members	3rd Level GRC Members	
	Contractor (Project Manager)	Executive Engineer, PIU	Safeguard and Safety Officer (SSO), PIU	Environment Safeguard, CMSC	Social Safeguard, CMSC	Zonal Additional Chief Engineer	Project Officer, Environment, PMU	Project Officer, Social, PMU
Bharatpur WW	Mr.Bajarang Lal	Mr. Rajul Sharma	Mr. Lokendra Jain	Mr. Vardan Srivastava	Mr. Nasir Hussain	Mr. KK Natani	Mrs Poornima Mahlawat	Mr Shiv rattan Parik
Bharatpur CB	Mr.Saddik Malik	Mr. Rajul Sharma	Mr. Lokendra Jain					
Bundi (WS&WW)	Mr.Lal Singh	Mrs. Sonam Sharma	Mr Manish Arora (S.E)					
Bundi (Drainage)	Mr. Pankaj Nautiyal	Mrs. Sonam Sharma	Mr R.S.Garg (S.E)					
Nawalgrh	Mr. Vishal pundhir	Mr. Manoj Kumar	Mr. R.S.Garg (S.E)					
Bhawani Mandi	Mr. Pankaj Nautiyal	Mr. Sonam Sharma	Mr. R.S.Garg (S.E)					
Nokha	Mr. Kaneek Mathur	Mr. Deepak Mandan	Mr. Deepak Mandan, E.E.	Dr. Mahaveer Saini	Mr. Rajeev Sharma	Mr. Sunil Vyas (S.E) Additional Charge of A.C.E., Zone- Jodhpur		
Jodhpur (WW)	Mr. Vijendra Singh	Mr. Subhash Vyas	Mr. Nemi Chand Gehlot					
Jodhpur (drainage)	Mr. Suresh Joshi	Mr. Mahesh Joshi	Mr. Nemi Chand Gehlot					
Dungarpur	Mr. Sunil Thacker	Mr. Ashok Jangid	Mr. Anil Patidar					
Sagwara	Mr. Shrinu Reddy	Mr. Madhusudan Gaina	Mr. Anil Patidar					
Nathdwara	Mr. Manoj Sharma	Mr. Mahendra Samdani	Mr. Manish Arora (S.E.)					
Nimbahera	Mr. Dharmendra Singh	Mr. S.N. Verma	Mr. Kailash Deval					
Ratangarh	Mr. Virendra Gupta	Mr. R.D. Garg	Mr.O.P. Bairwa					
Barmer	Mr. Ram Lal Chaudhaary	Mr. Shashikant Sharma	Mr. Shashikant Sharma					
Balotra	Mr. Ram Lal Chaudhaary	Mr. N.S. Chaudhary	Mr. N.S. Chaudhary					
Sagwara	Mr. Veni Dan Charan	Mr. Madhusudan Gaina	Mr. Anil Patidar					
Jaiselmer	Mr. Veni Dan Charan	Mr. Purushottam	Mr. Purushottam					

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

43. 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.

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

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

46. **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.

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

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

13. SUMMARY OF KEY ISSUES AND REMEDIAL ACTIONS

A. FINDINGS AND KEY ISSUES

49. Up to March 2024, contracts for all 18 project towns have been awarded (Dungarpur & Sagwara under single contract as package, no. RSTDSP/DNG-SGWS-WW/01, Bundi, Nathdwara & Nimbahera under single contract as package, no. RSTDSP/3 Towns/WS-WW/01, Nokha – package no. RSTDSP/NKH/01, Jodhpur (Sewerage) – RSTDSP/JOD/01, Jodhpur (Drainage) – RSTDSP/JOD/02, Bharatpur (Sewerage) - RSTDSP/BHR-WW/01, Bundi, Bhawani Mandi, Nawalgarh & Ratangarh (Drainage) under single contract as package no. RSTDSP/TOWNS/DR/01, Barmer & Balotra under single Package no. – RSTDSP/BAR-BLT/WS-WW/01, Bharatpur (City Beautification) RSTDSP/BHR/CTYBF/01, Jaisalmer (City Beautification) RSTDSP/JSL/CTYBF/01, Sagwara (City Beautification) RSTDSP/SGR/CTYBF/01 and Work has started in all 18 towns (Dungarpur, Sagwara Bundi, Nathdwara, Nimbahera, Nokha, Jodhpur (Sewerage), Jodhpur (Drainage), Bharatpur (Sewerage), Bundi, Bhawani Mandi, Nawalgarh & Ratangarh (Drainage) Barmer, Balotra, Bharatpur Jaisalmer & Sagwara (City Beautification) sub project towns. Three subprojects, Namely Bundi city beautification, Pushkar city beautification and Mount Abu city beautification are under bidding process while for two subprojects, namely, Nathdwara city beautification and Nawalgarh city beautification are under the DPR finalization and bidding will be initiated after finalization of DPRs.

50. IEEs of all 23 subproject towns have been prepared, of which 18 are approved by ADB, while for 5 subprojects it is under review. IEEs for various towns were further updated due to amendments in project scope or location and submitted to ADB, approved by ADB and uploaded on ADB and RUDSICO_EAP portals.

51. 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.

52. All the required legal obligations are being fulfilled in the project. In compliance to country's legal requirements for STPs & WTPs; Consent to Establish (CTE) is being obtained from Rajasthan State Pollution Control Board (RSPCB) in all project towns. There are total 7 STPs and 3 WTPs proposed for new construction in all 18 towns (Trenche-II Subprojects) and CTE for 3 towns (Bharatpur 9.4 MLD STP, Bundi 6.5 MLD STP & Nimbahera 5.74 MLD WTP) are obtained till this reporting period and CTO will be obtained prior to commissioning of plants. Up to March 2024, total 7 applications for CTEs for STPs and WTPs were submitted out of which 3 CTEs have been issued by RSPCB. There are existing 1 STP (10 MLD STP Barmer) proposed for upgradation which will require consent to establish and consent to operate. CTE & CTO has been obtained from Rajasthan State Pollution Control Board for 10 MLD STP, Barmer proposed for upgradation.

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

54. 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

55. Following remedial measures and action plan have developed to address the issues of concerns raised in this report are provided in **Table 25**.

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 Nathdwara	PIU/CMSC-2	10 July 2024
	Follow up for pending Forest clearance for Use of Forest Land for storm water disposal location in Ratangarh Drainage subproject.	PIU/CMSC-2	10 July 2024

APPENDIX 1: SELECTED PHOTOS OF SITE VISITS AND CONSTRUCTION WORKS**Ratangarh (Drainage works) (Site Visited on dated 30.10.2023)**

During the site visit near Ram Chandra park. found that all worker were working with proper PPE Like helmets, shoes, reflecting jacket, and Barricading board is also available



Barricading is not available at working site, Workers were found working without Helmet, Reflective jacket & safety shoes at **Zone 05,(Precast Chamber), near Masjid, RGI ,Drainage work**



Near Ginani, forest area Labour were found working without any PPE

Good Practice; First Aid Kit was Available at the near main ginani forest area during drainage works.

Ratangarh (Drainage works) (Site Visited on dated 21.11.2023)

Good Practice: Pipe laying work near NH Highway: Project Information Board is available at the site. all workers were found with Helmet & safety shoes.



Good Practice: Project information Board & Barricading is available at the working site



Good Practice: Project Information Board is available at Pipe laying work near railway colony site.



Identified & marked tree to be cut for the soil excavation work Raw water reservoir(RWR) Work near highway

Ratangarh (Drainage works) (Site Visited during December 2023)

Good Practice: First aid box was available at pipe laying site



Good Practice: Driver were working with PPE during Soil Excavation work at RWR Work Near National Highway

Project Information Board is available at the site. Barricading board is available with safety instruction.	All workers were found with Helmet, & safety shoes
Good Practice: All workers were found with PPEs during excavation work at site	Good Practice: Project information board & Barricading is available At site.
Good Practice: All worker were working with proper PPEs at Pipe Laying site Sardarshahar Road	Good Practice: Water Sprinkling on road to Prevent from the Dust particle
Good Practice: Project information Board is available at RWR near NH Highway	Good Practice; Net barricading around the soil excavation area is observed at RWR near N.H.

Jodhpur (Drainage works) (Site Visited dated 11.12.2023)

Worker were observed at site working without proper safety equipments such as helmet

Action taken: The worker were provide helmet jacket shoes



Light facility not observed at labor camp site
Action Taken: Light facility provide at labour camp room

Good Practice: At labour camp bathroom and toilet along with male and female marking were observed with proper cleaning

Site Visited to Barmer on dated 22.12.2023**Site Visited CRMC Building, Samdari Road, Barmer**

Project Information was not available at site

Drinking water & first aid facilities were not available at construction site

Site Visited to Ratangarh Drainage works on dated 16.01.2024**Pipe Laying Site Ratangarh Drainage Works**

Good practice: Project information board is available at pipe laying site.



Good practice: Observed workers were working with PPEs (Safety helmets And Reflective jacket & Safety Shoes) at pipe laying site

SPS Near Parmana Taal

Project Information board is available at SPS Parmana Taal site but was not at fixed place.

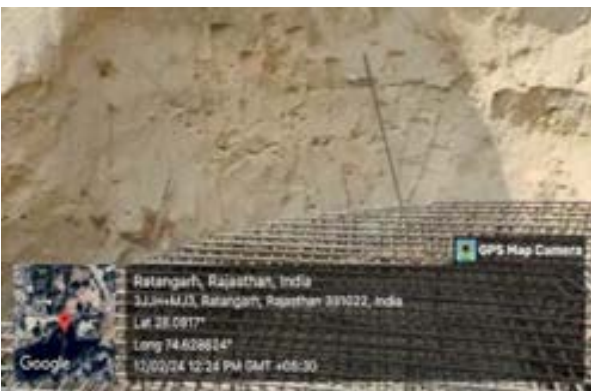


Action taken: Project information board was fixed at work site

	
Worker were found working without Safety Helmets and Reflective jacket & Safety Shoes at SPS Parmana Taal site	Action Taken: PPE provided to all site workers.
	
Safety barricading is available around the project work but barricading channel/pipe is rusted (corrosion of iron pipes)	Action taken: Applied paint on Channel/iron pipes to protect from rusting.
	
Excavated area near the work place is not barricaded from all side	Action taken: Soil excavated area is barricaded from all side to prevent from miss happing & unauthorized entry
	
Good Practice: First Aid Box Provided at site	

Site Visited Ratangarh drainage works dated 12.02.2024
SWPS, 4.6 MLD, PARMANA TAAL, Ratangarh Drainage works

	
Good Practice: Project information Board is available at visible location	Good Practice: Soil Excavated area near the work place is barricaded from all side
	
Observed that some of workers were found working without PPEs Safety Helmet & Safety shoes	Action taken: Provided all PPE to every worker at site.
	
It observed that Huge amount of Soil dust is available below the reinforcement. It will affect the strength of the concrete.	Action Taken: Used Air Blower to remove dust before doing casting

	
There is no Walk Ramp is available at the construction site at the Slope area. It may cause accident	Action Taken: Provide walk Ramp in this slope area to minimize any misshaping/accident during the site activities
	
It observed that there is no centering is available at the corner of the reinforcement to protect from soil during casting	Action taken: Provide Centering around the Reinforcement to protect from the soil
	
Observed no barricading is available at the lake side area	Action taken; Provided hard barricading & Safety caution belt around this area to minimize any misshaping/ accident

	
Observed hard copy of PUC document of the vehicle is not available	Action taken: Hard copy of PUC/DL document inside the Vehicle made available
	
Diesel Generator is observed that at the working site. It generate huge amount of noise during operation	Action taken: Provided/Arranged alternate option in the place of diesel engine
	
Good Practice: First Aid Kit was available at the site.	Action taken: Provided antiseptic wipes & solution, scissors & tweezer, bandages, Ointment gel, Disposable gloves

	
Good Practice: Arrange Fire Extinguisher at the site for any emergency	Good Practice: Drinking Water Facility is available at the site
	
It was observed that dry wood at the end of the boundary is stored	Action taken: Removed it at immediate affect it will cause fire & generate smoke.

Site Visited to Bundi Drainage works on dated 24.02.2024

	
Observed diversion board is not available at site	Action taken: Diversion board for site where need to divert traffic available at site
	
Observed labors working without PPEs	Action taken: Provided PPEs to labors working at site.
	
Observed barricading not done after excavation	Action taken: Proper barricading provided at excavated area

Site visited to Barmer & Balotra Town on dated 28.02.2024 to 29.02.2024**Labour Camp at RICCO Area Ram Nagar, Barmer**

		 209/3, RICCO Industrial Area, Ram Nagar, Barmer, Rajasthan 344001, India Latitude: 25.749007° Longitude: 71.5174796° Local 05:16:59 AM Altitude: 180 meters GMT 05:45:39 AM Wednesday, 28.02.2024
Observed poor housekeeping at labour camp and Toilet/Bathroom are in damage condition.		fuel drums were observed at store without dip tray protection on ground area and that may be cause of ground spillage and leads to soil contamination

Nehru road Pipe laying work @600mm dia, Barmer

	
Shoring was observed at trench site,	Warning Sign Board and helpline no. are site

Balotra town

	 R69Q+MXG, Jerla Rd, Balotra, Rajasthan 344024, India Latitude: 25.81949196° Longitude: 72.24041029° Local 10:46:30 AM Altitude: 113 meters GMT 05:16:39 AM Thursday, 29.02.2024	
Poor housekeeping was found at site. Construction material and other construction & demolition (C&D) debris material was found at site		Action Taken: EHS officer of contractor was instructed to provide training to labours and maintain house keeping and EHS assured to improve the housekeeping at all sites.

Site Visited to Bundi (water Supply & Sewerage) Sub Project town on dated 07.03.2024

	
Fire Extinguisher was not placed in designated area.	Action taken: Fire extinguisher well placed and marked with Expiry date.
	
No proper housekeeping found in labour camp and they are using unauthorised LPG cylinder for cooking purpose.	Action taken: Provided proper authorized LPG connection to avoid any type of incident
	
Barricading not done after excavation	Action taken: Proper Barricading provided.

Site Visited to Dungarpur town on dated 12.03.2024**Location: Adarsh Nagar, Dungarpur**

No information board & Barricading was observed at working site.



Action taken: Provided adequate barricading with proper display board at working site.



labour was without safety equipment's, observed at site the working such as Helmet, shoes, and safety jacket etc.



Action taken: Provided PPEs to labors working at site to avoid any accident at the working site.

Location: - New Colony

labour was without safety equipment's, observed at site the working such as Helmet, shoes, and safety jacket etc.



Action taken: Provided PPEs to labors working at site to avoid any accident at the working site.

		Good practice: Proper barricading, display of project information board and toll free number was observed at the working site.	
Location: Bhoiwada Old City			
		labour was without safety equipment's, observed at site the working such as Helmet, shoes, and safety jacket etc.	Action taken: Provided PPEs to labors working at site to avoid any accident at the working site.
Location: Chamapuran Mohalla Ghati (Old City)			
		Labour was without safety equipment's, observed at site the working such as Helmet, shoes, and safety jacket etc.	Action taken: Provided PPEs to labors working at site to avoid any accident at the working site.
		Good Practice: first aid box and drinking water facility and grievance register were available at working site.	

Site Visited to Ratangarh Drainage works on dated 13.03.2024
10 MLD SWPS, Main Ginani

	
Good practice: Project information Board is available at site in visible manner.	Good Practice: First Aid Kit was Available at the site.
	
Good Practice: Drinking Water facility is available at the site	Good Practice: Safety instruction/information & EHS Policy Board/banner is available at the site.
	
Hard barricading was not observed on the edge of excavated area.	Action taken: Provided Hard barricading at least 1.5 m distance from excavated edge area so that distance shall be maintain.

	
It was observed that There is no barricading is available at the lake side area of SWPS	Action taken: Provided hard barricading & Safety caution belt around this area to minimize any misshaping/accident.
	
JCB operator did not have heavy vehicle documents with himself and did not placed First Aid Box inside driver cabin	Action taken; All heavy vehicle driver made available with vehicle documents with them and carry hard copy of Driver License, RC, PUC certificates and vehicle insurance.
	
It was found that There is no Walk Ramp is available in the Slope area of the construction site which may cause accident.	Action taken: Provided walk Ramp in this slope area to minimize any misshaping/accident during the work activities.

10 MLD SWPS ,Near BSNL Office	
	
Good Practice: Project information Board is available at site with visible place	
	
It Was observed that there is no safety barricading around the boundary of SWPS	Action taken: Provided barricading around the boundary of SWPS area.
	
Hard barricading was found missing around the Pit Area. Local Vehicle is moving around this pathway	Action taken: Provided hard barricading around this area to minimize the Risk of accident.

4.6 MLD SWPS, Near Parmana Taal	
	
Good practice: Project information Board is available at visible location in visible manner.	Good practice: It was observed that hard barricading is available around the construction area.
	
Good practice: Safety sign board and Emergency Assembly point is observed.	Good Practice: Provided dustbin for the disposal of food waste, plastic, paper waste and metal scrap waste with Color combination and also provided Solid Waste Management Banner/Board.
	
It was observed that some of workers were found working without Safety Helmet & Safety shoes.	Action taken; Provided PPEs to workers working at site.

 	
It was observed that Flory Machine Driver did not have PUC vehicle documents with himself and Driving License is found that with driver	Action taken: All vehicle driver made available with vehicle documents with them and carry hard copy of Driver License, RC, PUC certificates and vehicle insurance.
	
It was found that water tank Vehicle is without any Vehicle number Plate and Did not have PUC documents with himself.	Action taken: All vehicles are made available with vehicle number plate and documents with them and carry hard copy of Driver License, RC, PUC certificates.
	
Observed Electrical connection with open cable joint that may cause accident.	Action taken: Provided Electrical connection from D.G set for site activity.
	
Poor housekeeping was found at Construction site. Construction material and other construction material was found at site.	EHS officer, make ensure that all working area should be neat and clean and worker should provide safety training on importance of housekeeping at site

Site Visited to Jodhpur (Drainage works) town on dated 14.03.2024

	
In hazardous storage area, fuel drums store without dip tray protection on ground area and that may be cause of ground spillage and leads to soil contamination contractor, make ensure that all hazardous fuels, oil drums should be placed on proper dip tray protection on ground surface area with proper display of Material Safety Data Sheet (MSDS) in storage area	Hard barrication was found missing on the edge excavated area contractor, make ensure that hard barrication should be provide at least 1.5 m distance from excavated edge area so that distance shall be maintain

Site Visited to Jodhpur (Sewerage works) town on dated 15.03.2024

	
No hard barrication was found at working site, EHS officer, made ensure that all excavated structural area would be provided with hard barrication at site with proper safety signage board display at site	JCB operator did not have heavy vehicle documents with himself and did not placed First Aid Box inside driver cabin, EHS officer, made ensure that all heavy vehicle driver would have vehicle documents with them and carry hard copy of Driver Licence, RC, PUC certificates and vehicle insurance.
	
Worker work at site without PPE kit, EHS officer made ensure follow safety measure at site	Specific condition: Safety precaution must be taken at the site palace of excavation at underground electrical cable 11 kv

Site Visited to Bundi Drainage works on dated 16.03.2024

	
It was observed that Workers were working without Harness using work on Height	Action Taken: Provided Harness for labour at working height as per ADB SPS 2009 guidelines
	
Poor Housekeeping observed at laying pipeline	Action taken: Provided Housekeeping at Pipe laying site.
	
Poor Housekeeping found at Site of Road Restoration	Action taken: Proper Housekeeping provided.
	
Housekeeping work left after laying pipeline	Action taken: Proper Housekeeping provided.

Site Visited to Ratangarh (Drainage works) on dated 28.03.2024**10 MLD SWPS, Near BSNL Office, Ratangarh**

Good Practice: Project information Board was not found in right position and right place at construction site

No adequate hard barricading was observed around deep excavated area, whereas Iron bar rods were used for barricading that may be cause of accident.

4.6 MLD SWPS ,Near Parmana Taal

Good Practice: Project information Board is available at visible location

Good Practice: Safety sign board and emergency assembly points are observed at site.



Good Practice: First Aid Kit box was available at the site but essential medical items were missing. with following missing items; Antiseptic wipes & solution, scissors & tweezer, bandages, , disposable gloves etc.

28/02/24

Public Consultation at Bundi (Drainage works) (February 2024)



Public Consultation Attendance Sheet, Bundi (Drainage works) dated 06.02.2024

Public Consultation Attendance Sheet

 **Rajasthan Secondary Towns Development Sector Project (RSTDSP)**
RUIDP Phase-IV
Contract Management and Supervision Consultant (CMSC-01)

Activity: Consultation

Attendance Sheet

Place: Chhitter Road, Bundi Date: 06/02/2024

Topic/Issues Discussed: Public Consultation, Grievance Redressal and Prior Information

S. No.	Name	Gender	Occupation	Mobile No.	Signature
		M	F		
1.	CHORHAR	✓		8009207481	[Signature]
2.	MOMARAL	✓		8905365215	[Signature]
3.	GOLU	✓		940752094	
4.	CHITRA	✓			
5.	KARIK	✓			
6.	BABULAL	✓			[Signature]
7.	JANAROHAN	✓		6335447937	
8.	LADU	✓			[Signature]
9.	Kallem Bhaji	✓		8345354141	[Signature]
10.					

Public Consultation at Ratangarh (Drainage works) dated 14.03.2024**Attendance Sheet of Public Consultation, Ratangarh (Drainage works) dated 14.03.2024**

PUBLIC CONSULTATION

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

Town: Ratangarh

Place: Alkal Main Market

Date: 14/03/2024

S.no	Name	Contact no.	Issues Discussed	Signature
01.	श्री. श्वारदीप	8000313322	बनार 7-20250 2	श्वारदीप
02.	श्री. मुनीर	—	"	मुनीर
03.	श्री. मनीर	9923423053	"	मनीर
04.	श्री. मनीर	—	बनार 7-20250 2	श्वारदीप
05.	श्री. मनीर	367244758	"	श्वारदीप
06.	श्री. मनीर	832313453	"	श्वारदीप
07.	श्री. मनीर	—	बनार 7-20250 2	श्वारदीप
08.	श्री. मनीर	—	"	श्वारदीप
09.	श्री. मनीर	—	"	श्वारदीप
10.	श्री. मनीर	8680730028	बनार 7-20250 2	श्वारदीप

Ugrasen Kumar
14/03/2024



Environmental Monitoring Report

PUBLIC

Semestral Report: October 2023 – March 2024
December 2024

India: Rajasthan Secondary Towns Development Sector Project-Additional Financing

Part 2 of 4: Appendix 2 (continued) and Appendices 3 - 8

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

Asian Development Bank

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Public Consultation at Bundi (Drainage works) March 2024



Attendance Sheet of Public Consultation, Bundi (Drainage works) dated 16.03.2024

RUIDP
A Unit of RUIDP/CMSC

Rajasthan Secondary Towns Development Sector Project (RSTDSP)
RUIDP Phase-IV
Contract Management and Supervision Consultant (CMSC-01)

Activity: Consultation
Attendance Sheet

Place: Ramganj Balaji Date: 16/03/2024

Topic/Issues Discussed: Public Discussion Regarding STP work & discussion about reuse water after sewerage treatment

S. N.	Name	Gender M F	Occupation	Mobile No.	Signature
1.	Ramratan	✓	Shopkeeper	9214187329	[Signature]
2.	Mahaveer	✓	Farmer	9620076585	[Signature]
3.	Hamuman	✓	— II —	9057221553	[Signature]
4.	Bharnwar Lal	✓	— II —	—	[Signature]
5.	Lal Chand	✓	— II —	7014193519	[Signature]
6.	Mukesh Nigam	✓	— II —	9680224310	[Signature]
7.	Ramkishor	✓	— II —	—	[Signature]
8.					
9.					
10.					

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

S.No.	Component and Town Name	Validity	Reported in which SEMR
1.	9.4 MLD STP at Nagla Gopal near Ikran Village, Bharatpur	CTE obtained and valid from 21.09.2023 to 31.08.2028	Reporting in Current SEMR (October 2023 to March 2024)
2.	6.5 MLD STP at Existing STP campus at Ramgunj Balaji, Bundi	CTE obtained and valid from 10.10.2023 to 30.09.2028	Reporting in Current SEMR (October 2023 to March 2024)
3.	11 MLD WTP at Existing WTP campus at Nandsamand, Nathdwara	CTE obtained and valid from 03.01.2024 to 31.12.2028	Reporting in Current SEMR (October 2023 to March 2024)
4.	5.74 MLD WTP, PHED Campus near Gambhiri Dam, vill. Arania Joshi, Nimbahera	CTE obtained and valid from 20.12.2023 to 30.11.2028	Reporting in Current SEMR (October 2023 to March 2024)
5.	10 MLD (Existing) STP, Near Kurla Village, Barmer	CTE obtained and valid from 02.02.2022 to 31.01.2027;	Reporting in Current SEMR (October 2023 to March 2024)
6.		CTO obtained and valid from 01.12.2022 to 30.11.2027	Reporting in Current SEMR (October 2023 to March 2024)
7.	5.0 MLD STP, Near Charkara Village, Nokha	CTE applied and status pending at RSPCB	Reporting in upcoming SEMR (April 2024 to September 2024)
8.	4 MLD STP at Near Do river (Do Nadi) on Udaipur road, Dungarpur	CTE applied and status pending at RSPCB	Reporting in upcoming SEMR (April 2024 to September 2024)
9.	3.6 MLD STP at near BSNL Telephone Exchange Office / Central Jail, near Banori, Sagwara	CTE applied and status pending at RSPCB	Reporting in upcoming SEMR (April 2024 to September 2024)
10.	8 MLD WTP Bundi	CTE applied and status pending at RSPCB	Reporting in upcoming SEMR (April 2024 to September 2024)

B. Details of other permissions/NOCs

S.No.	Type of permission / NOCs	Name of Town and Status of Permission	Reported in which SEMR
1	Permission for Tree Cutting from Tehsildar office-	Bundi (Water Supply and Wastewater sub project) town - Permission obtained for tree cutting at CWR, Nainwa road from Tehsildar office, Bundi vide letter no. Rajasv/2023/716 on dated 11.08.2023 with condition of – - No harm is done in public places while cutting trees - Information about cutting of trees shall be given to the Tehsildar office. - The concerned department will plant five trees in place of 1 tree at each tree cut.	Reporting in Current SEMR (October 2023 to March 2024)
2.		Nimbahera (Water Supply Sub Project) town- Permission obtained for 3 nos. of tree cutting at PHED Campus, Nimbahera from Tehsildar office vide letter no. Rajasv/2024/31 on dated 05.01.2024 with condition of plant 30 nos. trees in place of 3 trees at another place.	Reporting in Current SEMR (October 2023 to March 2024)
3.		Jodhpur (Drainage Sub Project town) – Bhairav Naala – - SE, PIU, RUIDP, Jodhpur applied for tree cutting permission to District Collector Jodhpur for approx. 294 nos. of trees located at Bairav Naala at Jodhpur town vide letter no F(05)RUIDP/Ph –IV/DM/P02/5285 on dated 01.01.2024. - District Collector Jodhpur instructed Tehsildar Jodhpur for land inspection for approx. 294 nos. of trees due to construction of Bhairav Naala Jodhpur town vide letter no Rajasv/ Tree Permission/ 2024/27 on dated 10.01.2024. - Tehsildar, Kudi Bhagtasni, Jodhpur instructed land record inspector Kudi Bhagtasni Jodhpur for land inspection for permission of 294 nos. of tree cutting for construction of Bhairav Naala between Chainage No. 5000 to 13200 vide letter no. Rajasv/2024/107 dated 08.02.2024. RTO Naala – - SE, PIU, RUIDP, Jodhpur applied to District Collector, Jodhpur for 72 no. of tree cutting at RTO/Saran Nagar	Reporting in upcoming SEMR (April 2024 to September 2024)

S.No.	Type of permission / NOCs	Name of Town and Status of Permission	Reported in which SEMR
		Naala vide letter no. F(05)RUIDP/Ph –IV/DM/P02/6380 on dated 22.04.2024.	
4.	Permission from State Archaeological dept.	Bharatpur (City Beautification sub project) town - No Objection Certificate obtained from State Archeological Department for lighting work at Surajpol Gate, Anah Gate, Bina Narayan Gate, Atal Bandh Gate, Chand Pole Gate, Goverdhan Gate, Mathura Gate, Kumhar Gate, and Nimda Gate at Bharatpur vide letter no. पु.स/ .तक/स्मा/-पीएम/(102)3/75/2023/7170 on dated 31.05.2023	Reporting in Current SEMR (October 2023 to March 2024)
5		Bharatpur (City Beautification sub project) town - Permission obtained from State Archeological Department, Bharatpur for town hall Repairing vide letter no. पु.स/ .स.प्रा/.23/11612 on dated 24.08.2023	Reporting in Current SEMR (October 2023 to March 2024)
6.	Permission for Forest Clearance	Nathdwara (Water Supply Sub Project Town) – SE, PIU, RUIDP, Nathdwara applied online on Parivesh Portal proposal no. FP/RJWATER/444285/2023 on dated 20.11.2023 for Forest Clearance / NOC for pipe line work at forest land vide letter no. RUIDP/PIU/Nathdwara/ Ph –IV/NTD2024-2025/275 on dated 24.04.2024 which is under consideration of Forest department.	Reporting in upcoming SEMR (April 2024 to September 2024)
7.		Ratangarh (Drainage Sub Project Town) – Assistant Engineer, PIU, RUIDP, Ratangarh applied for No Objection Certificate (NOC)/ Forest Clearance for construction of 1 no. of RWR at Forest land vide letter no. RUIDP/PIU/Ratngarh/2023-2024/9422 on dated 15.02.2024 which is under consideration of Forest Department.	Reporting in upcoming SEMR (April 2024 to September 2024)

A. Details of Environmental clearances/permission issued in this reporting period Consent to Operate (CTE) for 9.4 MLD STP, Bharatpur



Regional Office Bharatpur Rajasthan State Pollution Control Board



Registered

File No : F(Tech)/Bharatpur(Bharatpur)/7226(1)/2023-2024/1083-1084

Order No: 2023-2024/Bharatpur/9055

Dispatch Date: Dec 7 2023 5:48PM

Unit Id : 129479

M/s Sewage Treatment Plant

Office of The Municipal Commissioner, Near Mathura
gate, Bharatpur

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

Ref: Your application(s) for Consent to Establish dated 21/09/2023 and subsequent correspondence.

Sir,

Consent to Establish under the provisions of Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder, **is hereby granted** for your **Sewage Treatment Plant** situated / proposed at **Khasra No 44,45,46,47,48,62,63,64,65,66,67,73,74,75 Gopal Nagala Tehsil:Bharatpur District:Bharatpur**, 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 **21/09/2023** to **31/08/2028** or **date of commencement of production / commissioning of the project or activities whichever is earlier**.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

Particular	Type	Quantity / Capacity
Sewage Treatment Plant (STP)	Operation	9.40 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 and Air Act** shall be obtained. This consent to establish shall not be treated as consent to operate.

Page 1 of 6

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Date: 2023.12.07 17:48:14 IST
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Regional Office Bharatpur
Rajasthan State Pollution Control Board

Registered

File No : F(Tech)/Bharatpur(Bharatpur)/7226(1)/2023-2024/1083-1084

Order No : 2023-2024/Bharatpur/9055

Dispatch Date: Dec 7 2023 5:48PM

Unit Id : 129479

- 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	9.400	NIL	NIL Gardening/Plantation/F lushing and Firefighting

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

Sources of Air Emissions	Pollution Control Measures	Prescribed	
		Parameter	Standard
D.G SET(150KVA)	ACOUSTIC ENCLOSURE , ADEQUATE AIR POLLUTION CONTROL MEASURES , ADEQUATE STACK HEIGHT	--	--

- 7 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:

Page 2 of 6

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Regional Office Bharatpur
Rajasthan State Pollution Control Board

Registered

File No : F(Tech)/Bharatpur(Bharatpur)/7226(1)/2023-2024/1083-1084

Order No: 2023-2024/Bharatpur/9055

Dispatch Date: Dec 7 2023 5:48PM

Unit Id : 129479

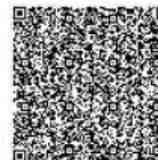
Parameters	Standards
pH Value	Between 5.5 to 9.0
Phosphate as P	Not to exceed 1.0 mg/l
Biochemical Oxygen Demand (3 days at 27C)	Not to exceed 10 mg/l
Chemical Oxygen Demand	Not to exceed 50 mg/l
Fecal Coliform (MPN per 100 ml)	less than 230
Total Suspended Solids	Not to exceed 20 mg/l

- 8 In addition to aforementioned parameters for regular monitoring, the total suspended solids (TSS) in the treated effluent before disposal shall not exceed 20 mg/l.
- 9 That above stated effluent standards are subject to the Hon'ble NGT order dated 30/4/2019 in matter of O.A. no 1069/2018 Nitin Shankar Deshpande Vs Union of India and Ors.
- 10 That the unit is proposed to be established in Taj Trapezium Zone Area, thus unit has to strictly comply with the directions given time to time by the Hon'ble court/TTZ Authority /CAQM/ State Pollution Control Board and in case of any non-compliance this consent shall be deemed as revoked.
- 11 That the treatment plant shall only be established within the land with detail as, Khasra no:44,45,46,47,48,62,63,64,65,66,67,73,74,75 Village: Gopal Nagla, Tehsil and District: Bharatpur.
- 12 The total project cost without depreciation shall not exceed 2600 lacs which includes the cost of Land, Building, Misc. Fixed Assets Plant & Machinery and in case of any increase in the project cost, the project proponent shall be liable to deposit balance amount.
- 13 This consent is not evidence for ascertaining entitlement of land and its use.
- 14 That no ground water shall be abstracted without prior permission from CGWA.
- 15 That a sign Board showing the name, address, capacity of the STP and validity of the consent shall be provided and maintained at the entrance of the site.
- 16 That the water flow meters shall be provided at all suitable points to measure quantity of daily waste water received, and waste water treated. Daily record of the same shall be maintained and to be submitted to the Board.

Page 3 of 6

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Regional Office Bharatpur
Rajasthan State Pollution Control Board

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File No : F(Tech)/Bharatpur(Bharatpur)/7226(1)/2023-2024/1083-1084

Order No: 2023-2024/Bharatpur/9055

Dispatch Date: Dec 7 2023 5:48PM

Unit Id : 129479

- 17 That Online Continuous Effluent Monitoring System (OCEMS) for parameters namely pH, TSS, COD, BOD and flow meter shall be installed and monitoring data shall be connected with the servers of State Board and Central Pollution Control Board within 03 months without fail.
- 18 That regular maintenance and operation of the OCEMS with temper proof mechanism with facilities for calibration shall be ensured.
- 19 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.
- 20 That no treated/partially treated untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/other gainful purposes.
- 21 That the sludge generated shall be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 22 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 23 That minimum 33% area of the total area of treatment plant premises shall be covered by tree plantation.
- 24 That the unit shall obtain Environmental Clearance from competent authority under EIA Notification dated 14.09.2006 for any such activity which attracts Environmental clearance under EIA Notification dated 14.09.2006.
- 25 That the grant of this consent is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 26 That the unit shall comply with the standard as prescribe by MOEF Notification No. GSR/826(E) Dated 16.11.2009 with respect to National Ambient Air Quality Standards.
- 27 That unit shall establish D.G.Set of rating 150 KVA only after ensuring compliance of the CAQM direction No.76 dt. 29.09.2023.
- 28 That the unit shall strictly comply with the direction no. 75 and 77 issued from Commission for Air Quality Management (CAQM) in NCR and adjoining areas with respect to Graded Response Action Plan (GRAP), and in case of any non-compliance this consent shall be deemed as revoked.

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Date: 2023.12.07 17:48:14 IST
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Regional Office Bharatpur
Rajasthan State Pollution Control Board

Registered

File No : F(Tech)/Bharatpur(Bharatpur)/7226(1)/2023-2024/1083-1084

Order No: 2023-2024/Bharatpur/9055

Dispatch Date: Dec 7 2023 5:48PM

Unit Id : 129479

- 29 That you shall ensure that D.G.Set is equipped with adequate acoustic enclosure and the noise level meets the prescribed noise standards laid under Noise Pollution(Regulation and Control (Amendment) Rules, 2002 and subsequent amendments.
- 30 That you shall ensure that D.G.Set is equipped with adequate stack height and the exhaust emission meets the prescribed emission limits laid under the Environment (Protection) Amendment Rules, 2022 and subsequent amendments.
- 31 That submission of any incorrect or partial information/false documents or concealment or misrepresentation of material facts shall make the applicant/industry/ process/ project liable for legal action, jointly as well as severally, under the provisions of the Indian Penal Code,1860, Information Technology Act,2000, Water (Prevention & Control of Pollution) Act,1974 & Air (Prevention & Control of Pollution) Act,1981, which may include imprisonment and/or penalty as per the provisions of the statutes.
- 32 In case, it is found during post inspection, the industry has flouted conditions of consent or inadequate pollution control measures, the consent will be revoked and further action may be taken under Environmental (Protection) Act, 1986, Air Act, 1981 and Water Act, 1974.
- 33 This consent shall be subjected to compliance of any direction or order passed by court of law in matter.
- 34 The unit shall comply with the provisions of Hazardous Waste (Management and Trans-boundary Movement) Rules 2016 and any further amendments.
- 35 That no Single use Plastic (SUP) item, which is banned vide MoEF&CC, Govt of India notification dated 12/08/2021 shall be used in the unit premises.
- 36 That, notwithstanding anything provided hereinabove, the State Board shall have the power and reserves its right, as contained **under Section 27(2) of the Water Act and under Section 21(6) of the Air Act** to review anyone or all of the conditions imposed here in above and to make such variation as it deems fit for the purpose of compliance of the **Water Act and Air Act**.
- 37 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.

Page 5 of 6

Signature Not Verified

Digitally signed by Umesh Kumar
Date: 2023.12.07 17:48:14 IST
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Location:





Regional Office Bharatpur
Rajasthan State Pollution Control Board

Registered

File No : F(Tech)/Bharatpur(Bharatpur)/7226(1)/2023-2024/1083-1084

Order No: 2023-2024/Bharatpur/9055

Dispatch Date: Dec 7 2023 5:48PM

Unit Id : 129479

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

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

Yours sincerely,

Regional Officer[Bharatpur]

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1 Master File.

Regional Officer[Bharatpur]

Page 6 of 6

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Date: 2023.12.07 17:48:14 IST
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Consent to Operate (CTE) for 6.5 MLD STP, Bundi

Regional Office Bundi
Rajasthan State Pollution Control Board
Plot No- D15, Near Ishwari Fruit Garden, New colony, Bundi
Phone: 7073577728

**Registered****File No :** F(Tech)/Bundi(Bundi)/2653(1)/2020-2021/721-722**Order No:** 2023-2024/Bundi/3646**Dispatch Date:** Jan 23 2024 4:12PM**Unit Id :** 66029**M/s Nagar Parishad, Bundi****Commissioner, Nagar Parishad Bundi, Rajasthan ,****Bundi Tehsil:Bundi****District:Bundi****Sub: Consent to Establish** under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under Section 21(4) of Air (Prevention & Control of Pollution) Act, 1981.**Ref:** Your application(s) for Consent to Establish dated 10/10/2023 and subsequent correspondence.**Sir,**

Consent to Establish under the provisions of Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder, **is hereby granted** for your **Sewage Treatment Plant plant** situated / proposed at **Khasra No 1265, 1266 and 1274 Devpura Tehsil:Bundi District:Bundi**, 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 **10/10/2023** to **30/09/2028** or **date of commencement of production / commissioning of the project or activities whichever is earlier**.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

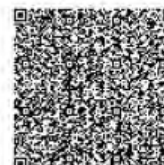
Particular	Type	Quantity / Capacity
SEWAGE TREATMENT PLANT	Activity	6.50 MLD

- 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.

Page 1 of 6

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Date: 2024.01.23 10:12:19 IST
Reason: Self Attested
Location:





Regional Office Bundi
Rajasthan State Pollution Control Board
 Plot No- D15, Near Ishwari Fruit Garden, New colony, Bundi
 Phone: 7073577728

Registered

File No : F(Tech)/Bundi(Bundi)/2653(1)/2020-2021/721-722

Order No: 2023-2024/Bundi/3646

Dispatch Date: Jan 23 2024 4:12PM

Unit Id : 66029

- 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 and Air 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:

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	6500.000	NIL	6,500.000 On Land For Plantation/Horticulture after adequate treatment

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

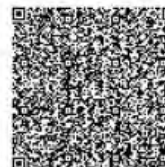
Sources of Air Emissions	Pollution Control Measures	Prescribed	
		Parameter	Standard
DG set(500KVA)	ACOUSTIC ENCLOSURE , WITH ADEQUATE STACK HEIGHT	--	--

- 7 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:

Page 2 of 6

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 Date: 2024.01.23 16:12:19 IST
 Reason: SelfAttested
 Location:





Regional Office Bundi
Rajasthan State Pollution Control Board
Plot No- D15, Near Ishwari Fruit Garden, New colony, Bundi
Phone: 7073577728

Registered

File No : F(Tech)/Bundi(Bundi)/2653(1)/2020-2021/721-722

Order No: 2023-2024/Bundi/3646

Dispatch Date: Jan 23 2024 4:12PM

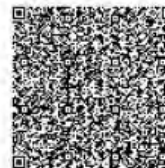
Unit Id : 66029

Parameters	Standards
Phosphate as P	Not to exceed 1.0 mg/l
pH Value	Between 6.0 to 9.0
Biochemical Oxygen Demand (3 days at 27C)	Not to exceed 10 mg/l
Chemical Oxygen Demand	Not to exceed 50 mg/l
NH4 (N)	5 mg/l
N total	10 mg/l
Total Suspended Solids	Not to exceed 20 mg/l
Fecal Coliform (MPN per 100 ml)	Not to exceed 100

Page 3 of 6

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Date: 2024.01.23 10:12:19 IST
Reason: Self Attested
Location:





Regional Office Bundi
Rajasthan State Pollution Control Board
 Plot No- D15, Near Ishwari Fruit Garden, New colony, Bundi
 Phone: 7073577728

Registered

File No : F(Tech)/Bundi(Bundi)/2653(1)/2020-2021/721-722

Order No: 2023-2024/Bundi/3646

Dispatch Date: Jan 23 2024 4:12PM

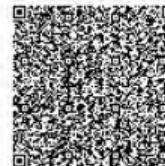
Unit Id : 66029

- 8 a) That this consent is being issued for capital investment of Rs. 15.40 Cr on the plant. The unit shall have to obtain separate consent to establish & operate as well for any expansion/addition/alteration made thereafter.
- b) That no treated/untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/ other gainful purposes.
- c) That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- d) That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- e) That the unit shall undertake plantation in two rows of suitable species all along the periphery of the site of the STP to control foul smell.
- f) That efforts should be made to reuse the treated sewage to the maximum possible extent and minimize its discharge. A network of pipelines should be laid from the treated sewage collection tank to fields for utilization.
- g) That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- h) That the unit shall obtain Environmental Clearance from competent authority under EIA Notification dated 14.09.2006 for any such activity which attracts Environmental clearance under EIA Notification dated 14.09.2006.
- i) That the unit shall maintain plantation in at least 33% of total area, using concept of the social forestry and development of green belt outside project premises in adjacent areas wherever adequate land is not available within the unit premises.
- j) That no Single Use Plastic (SUP) item, which is banned vide Ministry of Environment, Forest and Climate Change (MOEF &CC), Government of India notification dated 12.08.2021 shall be used in the unit premises.

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 Date: 2024.01.23 12:12:19 IST
 Reason: Self Attested
 Location:





Regional Office Bundi
Rajasthan State Pollution Control Board
 Plot No- D15, Near Ishwari Fruit Garden, New colony, Bundi
 Phone: 7073577728

Registered

File No : F(Tech)/Bundi(Bundi)/2653(1)/2020-2021/721-722

Order No: 2023-2024/Bundi/3646

Dispatch Date: Jan 23 2024 4:12PM

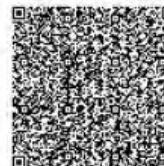
Unit Id : 66029

- 9 a) That the unit shall provide and maintain acoustic enclosure and adequate stack height with D.G. Set of 500 KVA.
 b) The unit shall comply with the standard as per prescribed vide MOEF notification NO.GSR 826(E) dated 16. Nov'2009 with respect to National Ambient Air Quality Standards.
 c) That the unit shall ensure compliance of ambient air quality standards in respect of noise as prescribed under the Environment (Protection) Act, 1986 & Rules made therein.
 d) That the unit shall comply with the State Board's order dated 28.02.2023 regarding noise pollution from industries and under Noise Rules, 2000 in order to control ambient noise in industrial area.
 e) That Online Continuous Effluent Monitoring System(OCEMS) for parameters namely pH, TSS, COD, BOD and flow shall be installed and more than 85 % data availability shall be ensured with the servers of State Board and CPCB.
 f) That maintenance and operation of the OCEMS with tamper-proof mechanism with facilities for calibration shall be ensured.
 g) 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.
 h) That the unit shall install PTZ camera covering the area of discharge points and shall configure the same to the State Board and CPCB's server.
 i) Record of chemical/chlorine dosing & sludge generation from STP must be maintained in logbook.
- 10 That, notwithstanding anything provided hereinabove, the State Board shall have the power and reserves its right, as contained under Section 27(2) of the Water Act and under Section 21(6) of the Air Act to review anyone or all of the conditions imposed here in above and to make such variation as it deems fit for the purpose of compliance of the Water Act and Air Act.
- 11 That the grant of this **Consent to Establish** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.

Page 5 of 6

Signature Not Verified

Digitally signed by Nishi Khandelwal
 Date: 2024.01.23 12:12:19 IST
 Reason: Self Attested
 Location:





Regional Office Bundi
Rajasthan State Pollution Control Board
Plot No- D15, Near Ishwari Fruit Garden, New colony, Bundi
Phone: 7073577728

Registered

File No : F(Tech)/Bundi(Bundi)/2653(1)/2020-2021/721-722

Order No: 2023-2024/Bundi/3646

Dispatch Date: Jan 23 2024 4:12PM

Unit Id : 66029

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

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

Yours sincerely,

Regional Officer[Bundi]

(A): Copy to:-

1 Master File.

Regional Officer[Bundi]

Page 6 of 6

Signature Not Verified

Digitally signed by Nigshi Khandeival
Date: 2024.01.23 12:12:19 IST
Reason: Self Attested
Location:



Consent to Operate (CTE) for 11 MLD WTP, Nathdwara

Regional Office Rajsamand
Rajasthan State Pollution Control Board
 Old Building of District Excise Office, Kalalwadi, Rajnagar, Rajsamand

Phone: 8094178389



Registered

File No : F(Tech)/Rajsamand(Nathdwara)/7515(1)/2024-2025/151-152

Order No: 2024-2025/Rajsamand/9853

Dispatch Date: Apr 30 2024 2:24PM

Unit Id : 130414

M/s 11 MLD Water Treatment Plant

AEN Office PHED Imli Chowk , Nathdwara

Tehsil:Nathdwara

District:Rajsamand

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

Ref: Your application(s) for Consent to Establish dated 03/01/2024 and subsequent correspondence.

Sir,

Consent to Establish under the provisions of Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder, **is hereby granted** for your **11 MLD Water Treatment Plant** situated / proposed at **Near old WTP PHED campus Nandsand Dam Nathdwara Tehsil:Nathdwara District:Rajsamand**, 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 **03/01/2024** to **31/12/2028** or **date of commencement of production / commissioning of the project or activities whichever is earlier**.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

Particular	Type	Quantity / Capacity
Water Treatment Plant	Operation	11.00 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.

Page 1 of 5

Signature Not Verified

Digitally signed by Ashish Kumar
 Baurasi
 Date: 2024.04.30 14:24:39 IST
 Reason: Self Attested
 Location:





Regional Office Rajsamand
Rajasthan State Pollution Control Board
 Old Building of District Excise Office, Kalalwati, Rajnagar, Rajsamand
 Phone: 8094178389

Registered

File No : F(Tech)/Rajsamand(Nathdwara)/7515(1)/2024-2025/151-152

Order No: 2024-2025/Rajsamand/9853

Dispatch Date: Apr 30 2024 2:24PM

Unit Id : 130414

- 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 and Air Act** shall be obtained. This consent to establish shall not be treated as consent to operate.
- 5 That the sources of air emissions along with pollution control measures and the emission standards for the prescribed parameters shall be as under:

Sources of Air Emissions	Pollution Control Measures	Prescribed	
		Parameter	Standard
D.G set(300KVA)	ACOUSTIC ENCLOSURE, ADEQUATE STACK HEIGHT		

- 6 a. That this Consent to Establish is valid for Water Treatment Plant of capacity 11 MLD (with recycling system) for an investment of Rs. 707.00 (without O&M cost) lacs under 'Orange' category.
 b. That this consent to establish is being issued to your project having investment in Land, building, plant & machinery as Rs. 707.00 (without O&M cost) lacs. 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.
- 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 the Industry shall develop tree plantation in 33% of total plot area to maintain air quality around the Industry.
- 10 That industry shall make all necessary arrangements for rain water harvesting, also shall not dug tube/ Bore Wells without prior permission of competent authority.

Page 2 of 5

Signature Not Verified

Digitally signed by Ashish Kumar
 Baurasi
 Date: 2024.04.30 14:24:39 IST
 Reason: Self Attested
 Location:





Regional Office Rajsamand
Rajasthan State Pollution Control Board
 Old Building of District Excise Office, Kalalwati, Rajnagar, Rajsamand
 Phone: 8094178389

Registered

File No : F(Tech)/Rajsamand(Nathdwara)/7515(1)/2024-2025/151-152

Order No: 2024-2025/Rajsamand/9853

Dispatch Date: Apr 30 2024 2:24PM

Unit Id : 130414

- 11 That the industry shall not dispose off waste material outside the premises to avoid any possible nuisance to nearby areas.
- 12 That unit shall not generate/emit any kind of trade/ domestic effluent & air emissions from the premises. Unit shall have to apply for Consent to Establish and Consent to Operate under Water Act-74 & Air Act-81, within 30 days in case if it propose to generate/discharge any trade/Domestic effluent or air emissions within/outside the premises.
- 13 That this consent to establish is valid subject to fulfillment of all the other statutory requirements in other Laws/Acts/Rules as applicable.
- 14 This consent will not be used as an evidence for ascertaining the land title and its use.
- 15 That the industry shall maintain zero discharge status from the premises. No trade effluent shall be discharge inside/ outside industrial premises and also dispose the generated sludge in scientific and safe manner.
- 16 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. The sludge generated in the process shall be disposed off scientifically.
- 17 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 adequately design treatment system.
- 18 That the domestic effluent shall be disposed off in soak pits through properly designed septic tanks.
- 19 That unit shall provide acoustic enclosure and stack of adequate height with one 300 KVA DG Set.
- 20 That the industry shall ensure that noise from the unit does not exceed the prescribed noise standards for industrial area i.e. 75 dB(A) Leq during day time and 70 dB(A) Leq during night time to meet the prescribed ambient noise standards. Day time is reckoned in between 6 A.M. and 9 P.M. and nighttime is reckoned between 9 P.M. to 6 A.M.
- 21 That this consent is being issue on the basis of information submitted by unit. The consent may be automatically revoked in case of any wrong information found after that.
- 22 That unit must submit the public liability insurance for chlorine store room and use and must ensure safety measure for chlorine room (water spray, alarm, etc).
- 23 That this consent is only for environment purpose not be liable for any other purpose.

Page 3 of 5

Signature Not Verified

Digitally signed by Ashish Kumar
 Baurasi
 Date: 2024.04.30 14:24:39 IST
 Reason: Self Attested
 Location:





Regional Office Rajsamand
Rajasthan State Pollution Control Board
Old Building of District Excise Office, Kalalwati, Rajnagar, Rajsamand
Phone: 8094178389

Registered

File No : F(Tech)/Rajsamand(Nathdwara)/7515(1)/2024-2025/151-152

Order No: 2024-2025/Rajsamand/9853

Dispatch Date: Apr 30 2024 2:24PM

Unit Id : 130414

24 In case of failure to comply with any of the conditions stated as above, and any type of accident on plant this consent to establish issued to the industry shall automatically stands revoked without any notice.

25 That, notwithstanding anything provided hereinabove, the State Board shall have the power and reserves its right, as contained under Section 27(2) of the Water Act and under Section 21(6) of the Air Act to review anyone or all of the conditions imposed here in above and to make such variation as it deems fit for the purpose of compliance of the Water Act and Air Act.

26 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.

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

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

Yours sincerely,

Regional Officer[Rajsamand]

Page 4 of 5

Signature Not Verified

Digitally signed by Ashish Kumar
Baurasi
Date: 2024.04.30 14:24:39 IST
Reason: SelfAttested
Location:





Regional Office Rajsamand
Rajasthan State Pollution Control Board
Old Building of District Excise Office, Kalalwati, Rajnagar, Rajsamand
Phone: 8094178389

Registered

File No : F(Tech)/Rajsamand(Nathdwara)/7515(1)/2024-2025/151-152

Order No: 2024-2025/Rajsamand/9853

Dispatch Date: Apr 30 2024 2:24PM

Unit Id : 130414

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1 Master File.

Regional Officer[Rajsamand]

Page 5 of 5

Signature Not Verified

Digitally signed by Ashish Kumar
Baurasi
Date: 2024.04.30 14:24:39 IST
Reason: Self Attested
Location:



Consent to Operate (CTE) for 5.74 MLD WTP, Nimbahera

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



Registered

File No : F(Tech)/Chittorgarh(Nimbahera)/7239(1)/2023-2024/613-614

Order No: 2023-2024/Chittorgarh/12487

Dispatch Date: Mar 19 2024 11:09P

Unit Id : 130947

M/s 5.74 MLD, WTP

EXECUTIVE ENGINEER PHED DIVISION NIMBAHERA,
 DAK BANGLOW ROAD NIMBAHERA , NIMBAHERA

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

Ref: Your application(s) for Consent to Establish dated 20/12/2023 and subsequent correspondence.

Sir,

Consent to Establish under the provisions of Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981, (hereinafter to be referred as the Air Act) as amended to date and rules & the orders issued thereunder, **is hereby granted** for your **5.74 MLD WTP ARNIYA JOSHI NIMBAHERA** plant situated / proposed at **5.74 MLD, WTP ARNIYA JOSHI, NIMBAHERA NIMBAHERA Tehsil:Nimbahera District:Chittorgarh**, 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 **20/12/2023** to **30/11/2028** or **date of commencement of production / commissioning of the project or activities whichever is earlier**.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

Particular	Type	Quantity / Capacity
WATER TREATMENT PLANT	Activity	5.74 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 and Air Act** shall be obtained. This consent to establish shall not be treated as consent to operate.

Page 1 of 5

Signature Not Verified

Digitally signed by Deepak Tanwar
 Date: 2024.03.19 23:09:42 IST
 Reason: SelfAttested
 Location:





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

Registered

File No : F(Tech)/Chittorgarh(Nimbahera)/7239(1)/2023-2024/613-614

Order No: 2023-2024/Chittorgarh/12487

Dispatch Date: Mar 19 2024 11:09P

Unit Id : 130947

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

Sources of Air Emissions	Pollution Control Measures	Prescribed	
		Parameter	Standard
D.G. Set (1 Nos.)(300KVA)	ACOUSTIC ENCLOSURE, ADEQUATE STACK HEIGHT	--	--

- 6 That this consent is being issued for establishment of Water Treatment Plant of capacity 5.74 MLD at Khasra No. 775, Village-Arniya Joshi, Tehsil-Nimbahera, District-Chittorgarh. 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.
- 7 That this Consent to Establish is valid for Water Treatment Plant (with recycling system) for a investment of Rs. 353/- lacs under 'Orange' category. Any change in production & its capacity unit has to seek prior consent to establish/operate from the State Board.
- 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 and sludge generated from the same shall be disposed in eco-friendly manner.
- 11 That the domestic effluent shall be disposed off in soak pits through properly designed septic tanks.

Page 2 of 5

Signature Not Verified

Digitally signed by Deepak Tanwar
 Date: 2024.03.19 15:09:42 IST
 Reason: Self Attested
 Location:





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

Registered

File No : F(Tech)/Chittorgarh(Nimbahera)/7239(1)/2023-2024/613-614

Order No: 2023-2024/Chittorgarh/12487

Dispatch Date: Mar 19 2024 11:09P

Unit Id : 130947

- 12 That the industry shall ensure that noise from the unit does not exceed the prescribed noise standards for industrial area i.e. 75 dB(A) Leq during day time and 70 dB(A) Leq during night time to meet the prescribed ambient noise standards. Day time is reckoned in between 6 A.M. and 9 P.M. and nighttime is reckoned between 9 P.M. to 6 A.M.
- 13 That the unit shall maintain plantation at least in the 33% of total area within the unit premises.
- 14 That the consent is valid subject to fulfillment of all the other statutory requirements in other Laws/Acts/Rules as applicable.
- 15 That this consent is not an evidence for ascertaining the title of land.
- 16 That this consent is only for environment purpose not be liable for any other purpose
- 17 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.
- 18 That unit shall provided well designed rain water harvesting system within the unit premises.
- 19 The unit shall comply with the provision of hazardous waste (Management Handling and Transboundary Movement) Rules, 2016 and daily record of sludge generation and its disposal shall be maintained, if applicable.
- 20 That unit shall not dig any borewell/tubewall without prior permission from the Central Ground Water Authority, New Delhi.
- 21 That unit must submit the public liability insurance for chlorine storage room and use and must ensure safety measures for chlorine room (Water Spray, Alarm etc.)
- 22 That proponent shall obtain the necessary permission from the forest department, or other department/authority in concern if the unit falls/comes under such area/ purview or scope of concern of forest, eco sensitive zone, conserved area and within the boundary limits of any national park, sanctuary or other area defined by the forest department, any authorities in concern time to time. The sole responsibility of obtaining the permission from the departments in concerns i.e. forest department, Wild Life Board or other departments is of project proponent. The project proponent shall ensure to operation of the unit only after obtaining the permission from the departments in concern (if applicable).
- 23 That this consent to establish is subject to post audit/verification of pollution control measures and consent conditions. In case it is found during post inspection that the unit has flouted conditions of the consent and/or is having inadequate pollution control measures and/or unable to meet the prescribed standards, this consent will be revoked without any further notice in the matter.

Page 3 of 5

Signature Not Verified

Digitally signed by Deepak Tanwar
 Date: 2024.03.19 23:09:42 IST
 Reason: Self Attested
 Location:





Regional Office Chittorgarh
Rajasthan State Pollution Control Board
 Near FCI Godown, Chanderia, Chittorgarh

Phone: 01472-255077

Registered

File No : F(Tech)/Chittorgarh(Nimbahera)/7239(1)/2023-2024/613-614

Order No: 2023-2024/Chittorgarh/12487

Dispatch Date: Mar 19 2024 11:09PM

Unit Id : 130947

24 That, notwithstanding anything provided hereinabove, the State Board shall have the power and reserves its right, as contained **under Section 27(2) of the Water Act and under Section 21(6) of the Air Act** to review anyone or all of the conditions imposed here in above and to make such variation as it deems fit for the purpose of compliance of the **Water Act and Air Act**.

25 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.

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

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

Yours sincerely,

Regional Officer[Chittorgarh]

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

1. Master File.

Page 4 of 5

Signature Not Verified

Digitally signed by Deepak Tanwar
 Date: 2024.03.19 23:09:42 IST
 Reason: SelfAttested
 Location:





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

Registered

File No : F(Tech)/Chittorgarh(Nimbahera)/7239(1)/2023-2024/613-614

Order No : 2023-2024/Chittorgarh/12487

Dispatch Date: Mar 19 2024 11:09PM

Unit Id : 130947

Regional Officer[Chittorgarh]

Page 5 of 5

Signature Not Verified

Digitally signed by Deepak Tanwar
Date: 2024.03.19 16:09:42 IST
Reason: Self Attested
Location:



Consent to Operate (CTE) for 10 MLD (Existing) STP, Barmer

Regional Office Balotra
Rajasthan State Pollution Control Board
 Regional office, Rajasthan state pollution control Board, Jasol
 phanta, Opp. JDVNL office, Jasol Road Balotra, District - Barmer

**Registered**

File No : F(HSW)/Barmer(Barmer)/4735(1)/2021-2022/1278-1278

Order No: 975

Dispatch Date: Dec 9 2022 2:17PM

Unit Id : 65912

M/s 10 MLD STP

10 MLD STP, Near Kuria Village, Barmer , Barmer

Tehsil: Barmer

District: Barmer

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

Ref: Your application(s) for Consent to Establish dated 02/02/2022 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 **10 MLD STP plant** situated / proposed at **10 MLD STP, Near Kuria Village, Barmer RURAL , Barmer Tehsil: Barmer District: Barmer**, Rajasthan under the provisions of the said Act(s). This consent is granted on the basis of examination of the information furnished by you in consent application(s) and the documents submitted therewith, subject to the following conditions:-

- 1 That this Consent to Establish is valid for a period from **02/02/2022** to **31/01/2027 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:

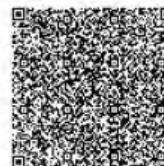
Particular	Type	Quantity / Capacity
SEWAGE TREATMENT PLANT (STP)	Product	10.00 MLD

- 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.

Page 1 of 6

Signature Not Verified

Digitally signed by Rajkumar Sehra
 Date: 2022.12.09 14:17:54 IST
 Reason: Self Attested
 Location:





Regional Office Balotra
Rajasthan State Pollution Control Board
 Regional office, Rajasthan state pollution control Board, Jasol
 phanta, Opp. JDVVNL office, Jasol Road Balotra, District -Barmer.

Registered

File No : F(HSW)/Barmer(Barmer)/4735(1)/2021-2022/1278-1278

Order No: 975

Dispatch Date: Dec 9 2022 2:17PM

Unit Id : 65912

- 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	10000.000	NIL	10,000.000 To be treated in STP and to be utilized in plantation & other gainfull uses after disinfection

- 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:

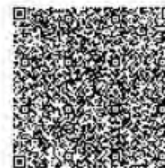
Parameters	Standards
pH Value	Between 5.5 to 9.0
Phosphate as P	Not to exceed 1.0 mg/l
Biochemical Oxygen Demand (3 days at 27C)	Not to exceed 10 mg/l
Chemical Oxygen Demand	Not to exceed 50 mg/l
Fecal Coliform	not to exceed 230 MPN/100 ml
N total	10 mg/l

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

Page 2 of 6

Signature Not Verified

Digitally signed by Rajkumar Sehra
 Date: 2022.12.09 14:17:54 IST
 Reason: Self Attested
 Location:





Regional Office Balotra
Rajasthan State Pollution Control Board
 Regional office, Rajasthan state pollution control Board, Jasol
 phanta, Opp. JDVNL office, Jasol Road Balotra, District -Barmer.

Registered

File No : F(HSW)/Barmer(Barmer)/4735(1)/2021-2022/1278-1278

Order No: 975

Dispatch Date: Dec 9 2022 2:17PM

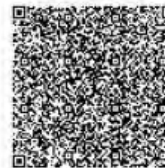
Unit Id : 65912

- 8 That this consent to establish is being issued to your project having investment in building, plant & machinery as Rs 815.52 Lakh. 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.
- 9 That no treated/untreated effluent shall be discharged into any water body. The entire treated water 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 adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 15 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
- 16 That Online Continuous Effluent Monitoring System(OCEMS) for parameters namely pH, TSS, COD, BOD and flow meter shall be installed and monitoring data shall be connected with the servers of State Board and Central Pollution Control Board within three months without fail.
- 17 That regular maintenance and operation of the OCEMS with temper proof mechanism with facilities for calibration shall be ensured.
- 18 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.
- 19 That the unit shall obtain Environmental Clearance from competent authority under EIA Notification dated 14.09.2006 for any such activity which attracts Environmental clearance under EIA Notification dated 14.09.2006.
- 20 That unit shall not abstract any ground water without prior permission from Central Ground Water Authority (CGWA).

Page 3 of 6

Signature Not Verified

Digitally signed by Rajkumar Sehra
 Date: 2022.12.09 14:17:54 IST
 Reason: Self Attested
 Location:





Regional Office Balotra
Rajasthan State Pollution Control Board
 Regional office, Rajasthan state pollution control Board, Jasol
 phanta, Opp. JDVNL office, Jasol Road Balotra, District - Barmer.

Registered

File No : F(HSW)/Barmer(Barmer)/4735(1)/2021-2022/1278-1278

Order No: 975

Dispatch Date: Dec 9 2022 2:17PM

Unit Id : 65912

- 21 That industry shall achieve prescribed standards for air and water as per Environment Protection Act, 1986.
- 22 The unit shall comply with the provisions of Hazardous Waste (Management and Trans-boundary Movement) Rules 2016 and any further amendments, if applicable.
- 23 That this consent is subject to the permission /NOC / license from appropriate authorities for land use under the related laws/Acts and subject to submission of the same to this office.
- 24 That the unit shall comply with various NGT orders. It shall be the responsibility of Project Proponent to follow and remain aware about each decision/ order/ judgments in this regard.
- 25 That this consent will not be used as an evidence for ascertaining the land title and its use.
- 26 That this consent is being issued on the basis of documents/ information uploaded/ submitted by the applicant/ industry/ process/ project proponent. The liability of veracity and correctness of the uploaded/submitted document/ information shall solely be of the applicant only.
- 27 Any wrong or partial information/ concealment of facts or deviation from material facts shall make this consent null & void.
- 28 That this consent shall cease to be valid in case of any change in product/process/operation/raw material/ capacity/ area or in information/ document submitted/uploaded at the time of seeking consent.
- 29 That proponent shall obtain the necessary permission from the other departments/authorities in concern if Industry activity falls/comes under such area/ purview or scope of such departments/authorities in concern from time to time. The sole responsibility of obtaining the permission from the departments/authorities in concern is of project proponent. The project proponent shall ensure the operation/establishment of the Industry only after obtaining the permission from the departments/authorities in concern (if applicable).
- 30 The Project Proponent shall apply for consent to establish under Air Act for the DG Set within 30 days from the issue of this consent.
- 31 That action plan for upgradation of STP so as to achieve the standards prescribed at condition no.6 and for utilization of treated waste water for gainful purposes should be submitted to this office within period of 30 days from the issue of this consent.

Page 4 of 6

Signature Not Verified

Digitally signed by Rajkumar Sehra
 Date: 2022.12.09 14:17:54 IST
 Reason: Self Attested
 Location:





Regional Office Balotra
Rajasthan State Pollution Control Board
 Regional office, Rajasthan state pollution control Board, Jasol
 phanta, Opp. JDVNL office, Jasol Road Balotra, District -Barmer.

Registered

File No : F(HSW)/Barmer(Barmer)/4735(1)/2021-2022/1278-1278

Order No: 975

Dispatch Date: Dec 9 2022 2:17PM

Unit Id : 65912

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

33 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.

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

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

Yours sincerely,

Regional Officer[Balotra]

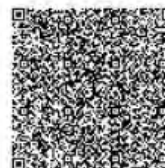
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Page 5 of 6

Signature Not Verified

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 Date: 2022.12.09 14:17:54 IST
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Regional Office Balotra
Rajasthan State Pollution Control Board
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phanta, Opp. JDVNL office, Jasol Road Balotra, District - Barmer.

Registered

File No : F(HSW)/Barmer(Barmer)/4735(1)/2021-2022/1278-1278

Order No: 975

Dispatch Date: Dec 9 2022 2:17PM

Unit Id : 65912

Regional Officer[Balotra]

Page 6 of 6

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Date: 2022.12.09 14:17:54 IST
Reason: Self Attested
Location:



Consent to Operate (CTO) for 10 MLD (Existing) STP, Barmer

Regional Office Balotra
Rajasthan State Pollution Control Board
 Regional office, Rajasthan state pollution control Board, Jasol
 phanta, Opp. JDVVNL office, Jasol Road Balotra, District - Barmer

**Registered****File No :** F(HSW)/Barmer(Barmer)/4735(1)/2021-2022/969-970**Order No:** 2023-2024/Balotra/9980**Date:** Jun 21 2023 6:04PM**Unit Id :** 65912**M/s 10 MLD STP****10 MLD STP, Near Kurla Village, Barmer , Barmer****Tehsil: Barmer****District: Barmer**

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

Ref: Your application for Consent to Operate dated 01/12/2022 and subsequent correspondence.

Sir,

Consent to Operate under the provisions of Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 (hereinafter to be referred as the Water Act) as amended to date and rules & the orders issued thereunder **is hereby granted** for your **10 MLD STP plant** situated at **10 MLD STP, Near Kurla Village, Barmer RURAL , Barmer Tehsil: Barmer District: Barmer**, Rajasthan, subject to the following conditions:-

- 1 That this Consent to Operate is valid for a period from **01/12/2022 to 30/11/2027**.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

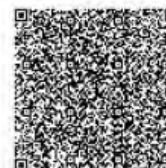
Particular	Type	Quantity with Unit
SEWAGE TREATMENT PLANT (STP)	Product	10.00 MLD

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

Page 1 of 6

Signature Not Verified

Digitally signed by Rajkumar Sehra
 Date: 2023.06.21 16:04:57 IST
 Reason: Self Attested
 Location:





Regional Office Balotra
Rajasthan State Pollution Control Board
 Regional office, Rajasthan state pollution control Board, Jasol
 phanta, Opp. JDVNL office, Jasol Road Balotra, District -Barmer.

Registered

File No : F(HSW)/Barmer(Barmer)/4735(1)/2021-2022/969-970

Order No: 2023-2024/Balotra/9980

Date: Jun 21 2023 6:04 PM

Unit Id : 65912

Type of effluent	Max. effluent generation (KLD)	Recycled Qty of Effluent (KLD)	Disposed Qty of effluent (KLD) and mode of disposal
Through Sewage-Domestic	10000.000	NIL	10,000.000 To be treated in STP and to be utilized in plantation & other gainfull uses after disinfection

- 5 That the Through Sewage-Domestic shall be treated before disposal so as to conform to the standards prescribed under the Environvent (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

- 6 In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.
- 7 That this consent to operate is being issued to your project having investment in building, plant & machinery as Rs 815.52 Lakh. 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.
- 8 That no treated/untreated effluent shall be discharged into any water body and entire treated sewage shall be utilized in plantation/horticulture/other gainful purposes.
- 9 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.

Page 2 of 6

Signature Not Verified

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Regional Office Balotra
Rajasthan State Pollution Control Board
 Regional office, Rajasthan state pollution control Board, Jasol
 phanta, Opp. JDVNL office, Jasol Road Balotra, District - Barmer.

Registered

File No : F(HSW)/Barmer(Barmer)/4735(1)/2021-2022/969-970

Order No: 2023-2024/Balotra/9980

Date: Jun 21 2023 6:04PM

Unit Id : 65912

- 10 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 11 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.
- 12 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 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 the water flow meters shall be provided at all suitable points to measure quantity of daily waste water received, waste water treated. Daily record of the same shall be maintained and to be submitted to the Board.
- 15 That Online Continuous Effluent Monitoring System(OCEMS) for parameters namely pH, TSS, COD, BOD and flow meter shall be installed and monitoring data shall be connected with the servers of State Board and Central Pollution Control Board within a period of 30 days from the date of issue of this consent.
- 16 That regular maintenance and operation of the OCEMS with temper proof mechanism with facilities for calibration shall be ensured.
- 17 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.
- 18 That the unit shall obtain Environmental Clearance from competent authority under EIA Notification dated 14.09.2006 for any such activity which attracts Environmental clearance under EIA Notification dated 14.09.2006.
- 19 That 33% area of the total area of industry's premises shall be covered by tree plantation. That the unit shall undertake plantation in two rows of suitable species all along the periphery of the site of the STP to control foul smell.
- 20 That unit shall not abstract any ground water without prior permission from Central Ground Water Authority (CGWA).
- 21 That industry shall achieve prescribed standards for air and water as per Environment Protection Act, 1986.
- 22 The unit shall comply with the provisions of Public Liability Insurance Act, 1991 and any further amendments, if applicable.
- 23 The unit shall comply with the provisions of Hazardous Waste (Management and Trans-boundary Movement) Rules 2016 and any further amendments, if applicable.

Page 3 of 6

Signature Not Verified

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 Date: 2023.06.21 18:04:57 IST
 Reason: Self Attested
 Location:





Regional Office Balotra
Rajasthan State Pollution Control Board
 Regional office, Rajasthan state pollution control Board, Jasol
 phanta, Opp. JDVNL office, Jasol Road Balotra, District - Barmer.

Registered

File No : F(HSW)/Barmer(Barmer)/4735(1)/2021-2022/969-970

Order No: 2023-2024/Balotra/9980

Date: Jun 21 2023 6:04PM

Unit Id : 65912

- 24 That this consent is subject to the permission /NOC / license from appropriate authorities for land use under the related laws/Acts and subject to submission of the same to this office.
- 25 That the unit shall comply with various NGT orders. It shall be the responsibility of Project Proponent to follow and remain aware about each decision/ order/ judgments in this regard.
- 26 That this consent will not be used as an evidence for ascertaining the land title and its use.
- 27 That this consent is being issued on the basis of documents/ information uploaded/ submitted by the applicant/ industry/ process/ project proponent. The liability of veracity and correctness of the uploaded/submitted document/ information shall solely be of the applicant only.
- 28 Any wrong or partial information/ concealment of facts or deviation from material facts shall make this consent null & void.
- 29 That this consent shall cease to be valid in case of any change in product/process/operation/raw material/ capacity/ area or in information/ document submitted/uploaded at the time of seeking consent.
- 30 That proponent shall obtain the necessary permission from the other departments/authorities in concern if unit activity falls/comes under such area/ purview or scope of such departments/authorities in concern from time to time. The sole responsibility of obtaining the permission from the departments/authorities in concern is of project proponent. The project proponent shall ensure the operation/establishment of the unit only after obtaining the permission from the departments/authorities in concern (if applicable).
- 31 The Project Proponent shall apply for consent to establish & consent to operate under Air Act for the DG Set within 15 days from the issue of this consent.
- 32 The Project Proponent shall submit action plan for reuse of treated sewage within a period of 15 days.
- 33 That action plan for upgradation of STP so as to achieve the standards prescribed at above condition no.5 shall be submitted within a period of 15 days from the date of issue of this consent.
- 34 That, notwithstanding anything provided hereinabove, the State Board shall have the power and reserves its right, as contained under Section 27(2) of the Water Act to review anyone or all of the conditions imposed here in above and to make such variation as it deems fit for the purpose of Water Act.

Page 4 of 6

Signature Not Verified

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Regional Office Balotra
Rajasthan State Pollution Control Board
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File No : F(HSW)/Barmer(Barmer)/4735(1)/2021-2022/969-970

Order No: 2023-2024/Balotra/9980

Date: Jun 21 2023 6:04PM

Unit Id : 65912

- 35 That the grant of this **Consent to Operate** is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with the conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ project proponent.
- 36 That the grant of this **Consent to Operate** shall not, in any way, adversely affect or jeopardize the legal proceeding, if any, instituted in the past or that could be instituted against you by the State Board for violation of the provisions of the Water Act or the Rules made thereunder.
- 37 That the Project Proponent shall comply with provisions of the E-waste (Management) Rules, 2016 and ensure that e-waste generated by them is channelized through collection centre or dealer of authorized producer or dismantler or recycler or through designated take back service provider of the producer to authorized dismantler or recycler.
- 38 That the Project Proponent shall maintain record of e-waste generated by them in Form-2 and make such records available for scrutiny by the Board.
- 39 That the Project Proponent shall file annual returns in Form-3, to the Board on or before the 30th day of June following the financial year to which that return relates.
- 40 That the transportation of e-waste shall be carried out as per the manifest system whereby the transporter shall be required to carry a document (three copies) prepared by the sender, giving the details as per Form-6.
- 41 That the Project Proponent shall comply with provisions of the Batteries (Management and Handling) Rules, 2001 (as amended) and submit half yearly returns (as bulk consumer, importer, auctioneer, recycler as the case may be) to the State Board as provided under Rule 10(2) (ii) of the Battery (Management and Handling) Rules, 2001 (as amended). In case the Project Proponent is not a bulk consumer even then the used batteries shall be returned to the authorized dealers or recyclers only.
- 42 That the record of batteries purchased and sold/ returned to registered dealers and/ or authorized recyclers shall be maintained and made available to the officers of the Board during inspections.

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

Page 5 of 6

Signature Not Verified

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 Date: 2023.06.21 16:04:57 IST
 Reason: Self Attested
 Location:





Regional Office Balotra
Rajasthan State Pollution Control Board
Regional office, Rajasthan state pollution control Board, Jasol
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Order No: 2023-2024/Balotra/9980

Date: Jun 21 2023 6:04 PM

Unit Id : 65912

Consent to Operate and Project Proponent / occupier shall be liable for legal action under the relevant provisions of the said Act(s).

Yours sincerely,

Regional Officer[Balotra]

(A): Copy to:-

1 Master File,

Regional Officer[Balotra]

Page 6 of 6

Signature Not Verified

Digitally signed by Rajkumar Sehra
Date: 2023.06.21 18:04:57 IST
Reason: Self Attested
Location:



B. Details of other permissions/NOCs**Permission for Tree Cutting – Bundi (Water Supply & Wastewater Subproject) town**

राजस्थान सरकार

कार्यालय तहसीलदार बून्दी

क्रमांक- राजस्व/2023/716

दिनांक- 11/8/2023

-: आदेश :-

कार्यालय अधीक्षण अभियंता, परियोजना क्रियान्वयन ईकाई, आरयूआईडीपी, पीआईयू, नाथद्वारा के पत्र क्रमांक/आरयूआईडीपी/पीआईयू/नाथद्वारा/फेज-IV/BUN/2023-24/1636 दिनांक 12.06.2023 के अनुसार राजस्थान शहरी आधारभूत विकास परियोजना के तहत आरयूआईडीपी के द्वारा बून्दी नगरपरिषद क्षेत्र में जलप्रदाय योजना के तहत कार्य किया जा रहा है। इस परियोजना में स्वच्छ जलाशय का निर्माण कार्य भी करवाया जाना शामिल है जिसके लिए जनस्वास्थ्य अभियांत्रिकी विभाग, बून्दी द्वारा आरयूआईडीपी को स्वच्छ जलाशय के निर्माण कार्य हेतु भूमि नैनवा रोड जलदाय विभाग हैडक्वार्टर्स के अन्दर आवासीय क्वार्टर्स के पास आवंटित की गई है। उक्त आवंटित भूमि में संवेदक द्वारा कार्य का प्रारम्भ कर दिया गया है। स्वच्छ जलाशय के निर्माण कार्य के मध्य दो नीम का पेड़ आ रहे हैं जिसको काटा जाना आवश्यक है। जिसके सन्दर्भ में सम्बन्धित पटवारी हल्का से जांच करवाई गई। मुताबिक रिपोर्ट पटवारी आरयूआईडीपी के द्वारा नगर परिषद क्षेत्र में जल प्रदाय योजना के तहत कार्य में स्वच्छ जलाशय के निर्माण में नीम का एक पेड़ आ रहा है। उक्त नीम के पेड़ हरा है जो नैनवा रोड जलदाय विभाग परिसर में है, जो नगर परिषद क्षेत्र बून्दी में स्थित है।

अतः मुताबिक रिपोर्ट पटवारी दिनांक 11.08.2023 के अनुसार उक्त पेड़ को कटवाये जाने की स्वीकृति दी जाती है।

- सार्वजनिक स्थल पर पेड़ हटाने समय कोई हानि न हो।
- पेड़ हटाये जाने की सूचना इस कार्यालय को दी जावेगी।
- सम्बन्धित विभाग अन्य स्थान पर उक्त पेड़ के स्थान पर 1 पेड़ के 5 नवीन पेड़ लगायेगा।
- भू-अभिलेख निरीक्षक वृत्त बून्दी व पटवारी हल्का बून्दी को आदेशित किया जाता है। कि सूखी/हरी लकड़ी की नीलामी कर राशि राजकोष में जमा कर रिपोर्ट अधोहस्ताक्षर कर्ता के समक्ष पेश करें।

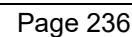

 तहसीलदार, बून्दी
 दिनांक:-

क्रमांक:- राजस्व/2023/
 प्रतिलिपि:- निम्न को सूचनार्थ एवं पालनार्थ:-

- कार्यालय अधीक्षण अभियंता, परियोजना क्रियान्वयन ईकाई, आरयूआईडीपी, पीआईयू, नाथद्वारा को सूचनार्थ।
- भू-अभिलेख निरीक्षक वृत्त बून्दी व पटवारी हल्का बून्दी को सूचनार्थ एवं आवश्यक कार्यवाही हेतु।
- रक्षित पत्रावली।


 तहसीलदार बून्दी

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Permission for Tree Cutting – Nimbahera (Water Supply Sub Project) town

कार्यालय तहसीलदार निम्बाहेडा जिला चित्तौड़गढ़ (राज०)
क्रमांक / राजस्व / 2024 / 31. दिनांक:- 05/01/2024.

आदेश

कार्यालय अधीक्षण अभियन्ता, परियोजना क्रियान्वयन ईकाई (आरएसटीडीएसपी), पीआईयू, नाथद्वारा जिला राससमन्द द्वारा पत्र प्रस्तुत कर निवेदन किया गया कि राजस्थान शहरी आधारभूत विकास परियोजना के तहत आरआईडीपी के द्वारा निम्बाहेडा नगरपालिका में जलप्रदाय योजना के तहत कार्य किया जा रहा है। इस परियोजना में सीआरएमसी का निर्माण पीएचईडी कैम्पस में करवाया जाना शामिल है। सीआरएमसी के निर्माण कार्य के मध्य एक गुलमोहर, एक नीम और एक छाल के पेड़ आ रहा है, जिसको काटा जाना आवश्यक है।

उक्त सम्बन्ध में जांच पटवार हल्का निम्बाहेडा ए से करवाई गई। पटवार हल्का निम्बाहेडा की जांच रिपोर्ट अनुसार पीएचईडी कैम्पस ग्राम निम्बाहेडा की आराजी संख्या 1264 एवं 1263 में स्थित है तथा दोनो आराजीयात नगरपालिका निम्बाहेडा के नाम दर्ज रिकार्ड है। मौके पर एक गुलमोहर (25 सेमी. व्यास), एक छाल (30 सेमी. व्यास) तथा एक नीम (क्षतिविध) का पेड़ स्थित है, जिससे पीएचईडी कैम्पस की दीवार भी क्षतिग्रस्त होना बताया गया। उक्त आराजीयात नगरपालिका निम्बाहेडा के नाम दर्ज होने के कारण नगरपालिका निम्बाहेडा द्वारा अनापत्ति प्रमाण पत्र प्रस्तुत किया गया।

अतः कार्यालय अधीक्षण अभियन्ता, परियोजना क्रियान्वयन ईकाई (आरएसटीडीएसपी), पीआईयू, नाथद्वारा जिला राससमन्द द्वारा प्रस्तुत प्रार्थना-पत्र, पटवार हल्का निम्बाहेडा ए द्वारा प्रस्तुत जांच रिपोर्ट एवं नगरपालिका निम्बाहेडा द्वारा जारी अनापत्ति प्रमाण पत्र के आधार पर सीआरएमसी के निर्माण कार्य के मध्य आ रहे एक गुलमोहर और एक छाल के वृक्षों को काटने की स्वीकृति, संबंधित विभाग द्वारा इसी क्षेत्र में 30 नये पेड़ लगाने की शर्त पर दी जाती है।

(राज०) तहसीलदार, निम्बाहेडा
राससमन्द निम्बाहेडा
जिला चित्तौड़गढ़ (राज०)

क्रमांक / राजस्व / 2024 / 32. दिनांक:- 05/01/2024.

प्रतिलिपि:-

- ✓ 1. अधिशाषी अधिकारी, नगरपालिका निम्बाहेडा को भेजकर लेख है कि उक्त काटे जाने वाले पेड़ का नियमानुसार निस्तारण किया जावे।
2. कार्यालय अधीक्षण अभियन्ता, परियोजना क्रियान्वयन ईकाई (आरएसटीडीएसपी), पीआईयू, नाथद्वारा जिला राससमन्द को भेजकर लेख है कि इसी क्षेत्र में 30 नये पेड़ लगाने का प्रमाण इस कार्यालय में प्रस्तुत किया जावे।
3. आदेश पंजिका।

(राज०) तहसीलदार, निम्बाहेडा
जिला - चित्तौड़गढ़ (राज०)



Applications for Tree Cutting Permission at Bhairav Naala – Jodhpur



Government of Rajasthan
Office of Superintending Engineer
Rajasthan Urban Infrastructure Development Project
Phase-IV, Tranche-II (RSTDSP), PIU-Jodhpur
(Email:- ju.ruidp@rajasthan.gov.in)

F(05)RUIDP/Ph-IV/DM/P02/5285

Date: - 01-01-2024

श्रीमान जिला कलेक्टर महोदय,
जोधपुर।

विषय : भैरव नाले के अलाइन्मेंट के मध्य आ रहे हरे वृक्षों को हटाने की अनुमति बाबत।

महोदय,

उपरोक्त विषयान्तर्गत निवेदन हैं कि आरयूआईडीपी जोधपुर द्वारा भैरव नाले के निर्माण हेतु फर्म SMCC-AG JV को NTP (Notice to Proceed) जारी किया जा चुका है। उपरोक्त नाले के अलाइन्मेंट में चैनज संख्या 5000 से 13200 के मध्य हरे वृक्ष (विवरण सलग्न) आ रहे हैं।

अतः उपरोक्त अलाइन्मेंट के प्रारम्भ में आ रहे हरे वृक्षों को हटाने की अनुमति प्रदान कराने का श्रम करावें, जिससे कि भैरव नाले का निर्माण कार्य सुचारु रूप से संपादित करवाया जा सके।

सलग्न : वृक्षों की सूची।

(सुनील व्यास)
अधीक्षण अभियन्ता
आर.यू.आई.डी.पी. चतुर्थ चरण
पीआईयू – जोधपुर

F(05)RUIDP/Ph-IV/DM/P02/5286-5290

Date: - 01-01-2024

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित हैं-

1. श्रीमान अतिरिक्त परियोजना निदेशक, आरयूआईडीपी जयपुर।
2. श्रीमान अतिरिक्त मुख्य अभियन्ता, आरयूआईडीपी जौन-जोधपुर।
3. टीम लीडर, सीएमएससी-द्वितीय, जोधपुर।
4. सहायक निर्माण प्रबंधक, सीएमएससी-द्वितीय जोधपुर।
5. मैसर्स, SMCC-AG JV जोधपुर।

Signature
Valid

Digitally signed
by SUNIL VYAS
Date: 2024.01.01
15:09:22 +05'30'

अधीक्षण अभियन्ता
आर.यू.आई.डी.पी. चतुर्थ चरण
पीआईयू – जोधपुर

Bhairav Nala(Start point 26°14'0.67"N and 72°59'4.97"E, Disposal Point-26° 7'39.74"N and 72°59'6.15"E)			
1	5000-6000	125	Neem -90, kheri -18, babul 14, ber-3
2	6000-7000	20	Neem -12, baul -3, khejri 4, khari bada m -1
3	7000-8000	12	Neem - 6, pipal -1 babul 4,
4	8000 9000	23	Neem -14, pipal- 1, khejri -4, babul-4
5	9000 to 10000	36	Neem - 18, sirsa -4, ber 4, babul -6, pipal -1
6	10000 to 11000	28	Khari badam -2, Neem 20, babul -6
7	11000 to Jojari river	50	Neem - 29, Pipal - 3, khejri -8, babul - 10
8	13200		

Total tree - 294

[Signature]
30/12/23

राजस्थान सरकार
कार्यालय जिला कलेक्टर, जोधपुर
www.jodhpur.rajasthan.gov.in

क्रमांक- राजस्व/पेड अनुमति/2024/97
प्रेषित-

दिनांक 10/01/2024

तहसीलदार,
जोधपुर।

विषय:- भैरव नाले के अलाइन्मेंट के मध्य आ रहे हरे वृक्षों को हटाने की अनुमति देय।

उपर्युक्त विषयान्तर्गत अधीक्षण अभियन्ता, आर.यू.आई.डी.पी. चतुर्थ घरण, पीआईयू-जोधपुर से प्राप्त पत्र क्रमांक F(05)RU/IDP/Ph-IV/DM/P02/5285 दिनांक 01.01.2024 के अनुसार भैरव नाले के निर्माण हेतु अलाइन्मेंट के घेनेज संख्या 5000 से 13200 के मध्य आ रहे कुल 294 हरे वृक्षों को हटाने की अनुमति हेतु निवेदन किया है।

अतः प्राप्त पत्र की छायाप्रति संलग्न प्रेषित कर लेख है कि पत्र से वर्गीकृत नक्शा की जांच कर तथ्यात्मक जांच रिपोर्ट मय अभिरक्षा अधाहस्ताक्षरकर्ता का अतिशोध भिन्नवाना सुनिश्चित करावे।

संलग्न:- उक्तानुसार।

(जय नारायण भीणा)
अपर जिला कलेक्टर(प्रथम)
जोधपुर
दिनांक 01/01/2024

क्रमांक:- समसंख्यक/24/

प्रतिलिपि निम्न को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है:-

1. अधीक्षण अभियन्ता, आर.यू.आई.डी.पी. चतुर्थ घरण, पीआईयू-जोधपुर।

589
20/1/24
R. sh
24/01/24

अपर जिला कलेक्टर(प्रथम)
जोधपुर

राजस्थान सरकार

कार्यालय, तहसीलदार कुडी भगतासनी (जोधपुर)

क्रमांक:- राजस्व/2024/107 दिनांक:- 8/2/2024

प्रेषित:- भू-अभिलेख निरीक्षक कुडी भगतासनी
पटवारी हल्का पाल।

विषय:- भैरव नाले के अलाइन्मेंट के मध्य आ रहे हरे वृक्षों को हटाने की अनुमति
बाबत प्राप्त पत्र में तथ्यात्मक मौका जांच रिपोर्ट पेश करने बाबत।

प्रसंग:- तहसीलदार जोधपुर के पत्रांक राजस्व/2024/198 दिनांक 30/01/2024
एवं श्रीमान् अपर जिला कलक्टर(प्रथम) महोदय, जोधपुर के पत्रांक
राजस्व/पेड़ अनुमति/2024/27 दिनांक 10.01.2024 के संदर्भ में।

उपरोक्त विषयान्तर्गत एवं प्रासंगिक पत्र के संदर्भ में आवेदन पत्र प्रेषित कर
लेख है कि अधीक्षण अभियंता आर.यू.आई.डी.पी. चतुर्थ चरण, पीआईयू-जोधपुर द्वारा
भैरव नाले के निर्माण हेतु अलाइन्मेंट के चैनेज संख्या 5000 से 13200 के मध्य आ रहे
कुल 294 हरे वृक्षों को हटाने की अनुमति हेतु श्रीमान् अपर जिला कलक्टर (प्रथम)
महोदय, जोधपुर को निवेदन किया गया है।

भैरव नाले के संख्या 5000 से 13200 के मध्य आ रहे कुल 294 हरे वृक्षों को
हटाने हेतु उक्त स्थल की संयुक्त रूप से मौका जांच कर स्पष्ट तथ्यात्मक मौका जांच
रिपोर्ट अविलम्ब इस कार्यालय में पेश करें प्रकरण में अग्रिम कार्यवाही की जा सके।

क्रमांक:-सम/2024/108
प्रतिलिपि:-

01. श्रीमान् अपर जिला कलक्टर(प्रथम) महोदय, जोधपुर को सादर सूचनाार्थ।

तहसीलदार
कुडी भगतासनी (जोधपुर)
दिनांक:- 8/2/2024

तहसीलदार
कुडी भगतासनी (जोधपुर)
01/2/2024

प्रमाणित

Applications for Tree Cutting Permission at RTO/ Saran Nagar Naala – Jodhpur

Government of Rajasthan
Office of Superintending Engineer
Rajasthan Urban Infrastructure Development Project
 Phase-IV, Tranche-II (RSTDSP), PIU-Jodhpur
 (Email:- ju.ruidp@rajasthan.gov.in)

Date: - 22-04-2024

F(05)RUIDP/Ph-IV/DM/P02/6380

श्रीमान जिला कलेक्टर,
जोधपुर।

विषय : आरटीओ/सारन नगर नाले के अलाइन्मेंट के साथ आ रहे हरे वृक्षों को हटाने की अनुमति बाबत।

उपरोक्त विषयान्तर्गत निवेदन है कि आरटूआईटीपी जोधपुर द्वारा आरटीओ नाले के निर्माण हेतु फर्म SMCC-AG JV को दिनांक 18.04.2023 को NTP (Notice to Proceed) जारी किया गया है। उपरोक्त नाले का निर्माण कार्य मण्डल हॉटल के पास मुख्य जोधपुर जयपुर हाइवे के बायीं तरफ होते हुए पीलार नाले से पहले मुख्य हाइवे क्रॉस करते हुए महादेव नगर की मुख्य सड़क से होते हुए जोजरी नदी में बालाजी से पहले मुख्य हाइवे क्रॉस करते हुए महादेव नगर से मुख्य जोधपुर जयपुर हाइवे से महादेव मिलान किया जाना निर्धारित है। नाले के उपरोक्त अलाइन्मेंट में मुख्य जोधपुर जयपुर हाइवे से महादेव नगर तक मुख्य सड़क पर कुल लगभग 72 हरे वृक्ष (जिसमें 52 नीम के वृक्ष, 06 पीपल के वृक्ष एवं 14 अन्य वृक्ष) आ रहे हैं।

अतः उपरोक्त 72 हरे वृक्षों को हटाने की अनुमति प्रदान करावे, जिससे कि आरटीओ/सारन नगर नाले का कार्य समय पर पूर्ण कराया जा सके।

संलग्न : वृक्षों की सूची।

(संजय माथुर)
अधीक्षण अभियन्ता

Date: - 22-04-2024

F(05)RUIDP/Ph-IV/DM/P02/6381

प्रतिनिधि निम्नलिखित को सूचनाई एवं आवश्यक कार्यवाही हेतु प्रेषित है—
 1. श्रीमान उपस्थंड अधिकारी, जोधपुर (उत्तर) को इस कार्यालय के पूर्व के पत्रांक F(05)RUIDP/Ph-IV/DM/P02/3611 दिनांक 05.07.2023 की निरंतरता में।

अधीक्षण अभियन्ता

RajKaj Ref
6724443

Document certified by SANJAY MATHUR <ju.ruidp@gmail.com>
Digitally Signed by SANJAY MATHUR
Designation Superintending Engineer
Date :22-04-2024 07:16:45

23/4/24

Permission for from State Archaeological dept. – Bharatpur

राजस्थान सरकार
कार्यालय निदेशक, पुरातत्व एवं संग्रहालय विभाग, राजस्थान जयपुर
(Phone: 0141-2820360, E-mail: dirarch-jp@nic.in)

क्रमांक:- पु.म./तक./स्म./पीएम(102)3/75/2023/7170

दिनांक:- 31/05/23

आयुक्त,
नगर निगम,
भरतपुर।

विषय:- विभागीय संरक्षित स्मारक भरतपुर शहर के गेट पर लाईटिंग कार्य की अनापत्ति प्रमाण पत्र चाहने के संबंध में।

प्रसंग:- आयुक्त, नगर निगम, भरतपुर का पत्रांक 10866 दिनांक 27/01/2022

उपरोक्त विषयान्तर्गत प्रसंगोक्त पत्र के क्रम में आप द्वारा विभाग के संरक्षित स्मारक यथा सूरजपोल गेट, अनाह गेट, बीनारायण गेट, अटलबंध गेट, चांदपोल गेट, गोवर्धन गेट, मथुरा गेट, कुम्हार गेट एवं नीमदा गेट पर सौन्दर्यीकरण हेतु लाईटिंग कार्य करवाने हेतु अनापत्ति/सहमति चाही है।

उक्त लाईटिंग कार्य की अनापत्ति/सहमति आपको अधोलिखित शर्तों के अधीन प्रदान की जाती है:-

1. उक्त सौन्दर्यीकरण के तहत लाईटिंग कार्यों के दौरान राजस्थान स्मारक, पुरावशेष स्थान तथा प्राचीन वस्तु अधिनियम, 1961 तथा राजस्थान स्मारक, पुरावशेष स्थान तथा प्राचीन वस्तु नियम, 1968 की पूर्ण पालना की जावेगी।
2. उक्त सौन्दर्यीकरण के तहत लाईटिंग कार्यों के दौरान इस बात का विशेष ध्यान रखा जावे कि विभाग के संरक्षित घोषित स्मारकों की मूल संरचना में कोई भी परिवर्तन नहीं किया जावेगा। स्मारक पर किसी भी प्रकार का ड्रीलिंग कार्य या कील इत्यादि जैसी नुकीली वस्तुओं का उपयोग नहीं किया जावेगा।
3. अधीक्षक, पुरातत्व एवं संग्रहालय विभाग, भरतपुर वृत्त, भरतपुर को करवाये जाने वाले कार्य की सूचना दी जायेगी तथा अधीक्षक, पुरातत्व एवं संग्रहालय विभाग, भरतपुर वृत्त, भरतपुर द्वारा उक्त कार्य का निरीक्षण एवं पर्यवेक्षण नियमित रूप से करवाया जायेगा।

संलग्न:- उपरोक्तानुसार


(डॉ. महेंद्र खड्गवर्त)
निदेशक

Permission from State Archaeological dept. – Bharatpur

राजस्थान सरकार
कार्यालय सक्षम प्राधिकारी एवं निदेशक, पुरातत्व एवं संग्रहालय विभाग, राजस्थान जयपुर
क्रमांक:-पु.स./स.प्रा./23/11612 दिनांक:- 24.8.23

आयुक्त,
नगर निगम,
भरतपुर।

विषय:- प्राचीन संस्मारक तथा पुरातत्वीय स्थल और अवशेष अधिनियम, 1958 के अधीन राष्ट्रीय महत्व के रूप में घोषित संरक्षित संस्मारकों/पुरातत्वीय स्थलों और अवशेषों के प्रतिषिद्ध/विनियमित क्षेत्र में मरम्मत कार्य करने की अनुमति बाबत।

प्रसंग:- आपका आवेदन पत्र क्रमांक RUIDP/PMU Ph-IV/BHR/2023-24/351 दिनांक 26.06.2023

जैसाकि आयुक्त, नगर निगम, भरतपुर ने 'चौबुर्जा गेट सहित किले की दीवार एवं चौबुर्जा गेट एवं अष्टधुत गेट से संलग्न' भरतपुर के निकट अथवा पास में प्रतिषिद्ध/विनियमित क्षेत्र में टाऊन हॉल के मरम्मत कार्य की अनुमति के लिये आवेदन दिया है और प्राचीन संस्मारक तथा पुरातत्वीय स्थल और अवशेष अधिनियम, 1958 और उसके अधीन बनाए गए नियमों के उपबन्धों का पालन करने का वचन दिया है, मैं अधोहस्ताक्षरकर्ता सक्षम प्राधिकारी एवं निदेशक, पुरातत्व एवं संग्रहालय विभाग, राजस्थान जयपुर, उक्त नियमों के नियम 20D(4) एवं प्राचीन संस्मारक तथा पुरातत्वीय स्थल और अवशेष (विरासत उपविधियां और सक्षम प्राधिकारी के अन्य कृत्यों को विरचित करना) नियम 2011 के नियम 8(1) के अधीन आयुक्त, नगर निगम भरतपुर को मरम्मत कार्य के लिये अनुमति देता हूँ।

यह अनुमति अधिनियम और उसके अधीन बनाए गए नियमों के उपबन्धों के अधीन दी गयी है और यह निम्नलिखित शर्तों के अधीन रहते हुए दी जाती है, अर्थात :-

1. यह अनुमति टाऊन हॉल में दरारों को भरने या बंद करने, भवन या ढांचे के कतिपय भागों पर पुनः प्लास्टर करने, पानी की टंकी, जल निकासी, मलवाही लाईनों की मरम्मत, आधार की नींव को मजबूत करना, खिडकियां दरवाजों को बदलना, फर्श पुनः बिछाना, छत से पानी के रिसाव को बंद करना, पानी की पाईप लाईन बिछाना या बदलना, पानी की टंकी को टूटने से रोकना, सिडियों को बदलना या उन्हें मजबूत करना, भवन या ढांचे पर सफेदी या रंग करवाने आदि के लिए है।
2. कोई नया निर्माण कार्य नहीं किया जावेगा।
3. इस स्वीकृति को किसी प्रकार का मालिकाना हक नहीं समझा जावे।

यह अनुमति हस्तान्तरणीय नहीं है और यह दिनांक 23.08.2023 से प्रारम्भ होने वाले तीन वर्ष की अवधि तक विधिमान्य रहेगी।

क्रमांक:-पु.स./स.प्रा./23/

प्रतिलिपि निम्न को सूचनार्थ एवं आवश्यक कार्यवाही हेतु :-

1. महानिदेशक, भारतीय पुरातत्व सर्वेक्षण, जनपथ, नई दिल्ली-110001
2. सदस्य सचिव, राष्ट्रीय स्मारक प्राधिकरण, 24, तिलक मार्ग, नई दिल्ली।
3. अधीक्षण पुरातत्वविद्, भारतीय पुरातत्व सर्वेक्षण, जयपुर मण्डल, जयपुर को भेजकर लेख है कि उक्त मरम्मत कार्य अपनी देखरेख में करवाने की व्यवस्था सुनिश्चित करे।

सक्षम प्राधिकारी एवं निदेशक
पुरातत्व एवं संग्रहालय विभाग
राजस्थान, जयपुर
24.08.23

उप निदेशक

Application for Forest Clearance / NOC at Nathdwara town



कार्यालय अधीक्षण अभियन्ता,
परियोजना क्रियान्वयन ईकाई (RSTDSP),
आरयूआईडीपी, पीआईयू, नाथद्वारा (जिला-राजसमन्द)

भारत

Address:- RUIDP, PIU, Nathdwara (District-Rajsamand)

E-mail -NATHDWARA.RUIDP@RAJASTHAN.GOV.IN

क्रमांक/आरयूआईडीपी/पीआईयू/नाथद्वारा/फेज-IV/NTD/2024-25/275

दिनांक:- 24.04.2024

प्रेषित:-

श्रीमान् उपवन संरक्षक,
वन विभाग,
जिला-राजसमन्द।

(Online PARIVESH PORTAL Proposal No. FP/RJ/WATER/444285/2023)

विषय:- नाथद्वारा जलप्रदाय परियोजना के कार्य हेतु वन विभाग के क्षेत्र में पानी की लाईन डालने के लिए स्वीकृति प्रदान करने के संबंध में पैकेज संख्या RSTDSP/NTD/01(Lot-02).

- संदर्भ:-
1. पीआईयू कार्यालय द्वारा जारी कार्यादेश संख्या 64 दिनांक 05.12.2022
 2. संवेदक का पत्र संख्या 165 दिनांक 30.03.2023
 3. इस कार्यालय का पूर्व पत्र संख्या 340 दिनांक 24.04.2023
 4. संवेदक का पत्र संख्या 1033 दिनांक 24.04.2024

महोदय,

उपरोक्त विषयान्तर्गत एवं संदर्भित पत्र के क्रम में निवेदन है कि राजस्थान शहरी आधारभूत विकास परियोजना(RUIDP) के तहत आरयूआईडीपी के द्वारा नाथद्वारा नगरपालिका क्षेत्र में जलप्रदाय योजना के तहत कार्य किया जा रहा है। उक्त जलप्रदाय परियोजना के कार्य में वन विभाग के क्षेत्रों में पानी की लाईन डालने का कार्य करने हेतु Online PARIVESH PORTAL Proposal No. FP/RJ/WATER/444285/2023 के द्वारा आवेदन कर दिया गया है। किये गये आवेदन की प्रति के 3 सेट बनाकर आपके कार्यालय में आवश्यक कार्यवाही करने हेतु भिजवाये जा रहे हैं।

इस संबंध में आप से निवेदन है कि उक्त जलप्रदाय योजना के कार्य हेतु वन-विभाग से अनापत्ति प्रमाण-पत्र शीघ्र जारी करने का श्रम करावें, ताकि स्वीकृत जलप्रदाय परियोजना के कार्य को निर्धारित अवधि में पूरा किया जा सके।

संलग्न:- उपरोक्तानुसार।

(मनीष अरोड़ा)
अधीक्षण अभियन्ता,
आरयूआईडीपी, पीआईयू,
चतुर्थ चरण-नाथद्वारा

दिनांक:- 24.04.2024

क्रमांक/आरयूआईडीपी/पीआईयू/नाथद्वारा/फेज-IV/NTD/2024-25/276-279
प्रतिलिपी निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है:-

1. श्रीमान् जिला कलक्टर महोदय, राजसमन्द।
2. अधिशाषी अभियन्ता, आरयूआईडीपी, पीआईयू, नाथद्वारा।
3. सीनीयर कन्स्ट्रक्शन इंजिनियर, सीएमएससी-II, नाथद्वारा
4. मैसर्स खिलारी इन्फ्रास्ट्रक्चर प्रा0लि0, नवीमुंबई, कैम्प कार्यालय-नाथद्वारा को भेजकर लेख है कि वन विभाग कार्यालय में व्यक्तिशः उपस्थित होकर किये गये आवेदन की प्रति के 3 सेट स्वीकृति हेतु वन विभाग जमा कर आवश्यक कार्यवाही सम्पादित करावें।

(मनीष अरोड़ा)
अधीक्षण अभियन्ता,
आरयूआईडीपी, पीआईयू,
चतुर्थ चरण-नाथद्वारा

संलग्न

Address:- In front of Govt. Primary School, Bijli, Lal Bag Road, Nathdwara-313301 (District-Rajsamand)

Application for Forest Clearance / NOC at Ratangarh town

राजस्थान शहरी आवासीय विकास परियोजना
Government of Rajasthan
RUIDP

राजस्थान सरकार
कार्यालय अधीक्षण अभियन्ता,
राजस्थान शहरी आधारभूत विकास परियोजना (आरयूआईडीपी)
परियोजना क्रियान्वयन इकाई, फेज-चतुर्थ, रतनगढ़ (घुरु)
(पता :- ई-3 ब्लॉक, संगम विहार कॉलोनी, सालासर रोड, रतनगढ़, (घुरु) अमृत महोत्सव
ईमेल-ruidp@rajasthan.gov.in
फोननम्बर : 01567-294440

क्रमांक : आरयूआईडीपी/पीआईयू/रतनगढ़/2023-2024/9422 दिनांक :- 15/2/2024

अधिसाक्षी अधिकारी
नगर पालिका रतनगढ़

विषय :- वन विभाग की भूमि पर RWR के संबंध में।
संदर्भ :- 1. क्षेत्रीय वन अधिकारी रतनगढ़ के पत्रांक एनओसी/2022-2023/105 दिनांक 13.02.2023
2. नगरपालिका पत्रांक नपार/2022/1571 दिनांक 20.07.2022

उपरोक्त विषयान्तर्गत एवं संदर्भित पत्रों के क्रम में लेख है कि रतनगढ़ शहर में चल रहे ड्रेनेज परियोजना के अन्तर्गत 3 RWR का निर्माण करवाया जाना प्रस्तावित है। उपरोक्त परियोजना के लिए 2 RWR के निर्माण के लिए आपके द्वारा अनापत्ति (NOC) प्रदान की जा चुकी है तथा वन विभाग की भूमि पर RWR निर्माण हेतु अनापत्ति पत्र (NOC) अभी भी वन विभाग के अन्तर्गत विचाराधीन है।
इस संबंध में अध्यक्ष महोदया की अध्यक्षता में आयोजित बैठक में भी चर्चा की गई थी।
अतः आपसे पुनः अनुरोध है कि RWR निर्माण हेतु वन विभाग द्वारा भूमि उपलब्ध करवाया जाना सुनिश्चित करावें। जिससे की परियोजना के कार्य को समयावधि में पूर्ण करवाया जा सके।

सहायक अभियन्ता
आरयूआईडीपी, पीआईयू, रतनगढ़

क्रमांक : आरयूआईडीपी/पीआईयू/रतनगढ़/2023-2024/9423-25 दिनांक :- 15/2/2024

1. श्रीमान् नगर पालिका अध्यक्ष, महोदया, रतनगढ़।
2. श्रीमान् अधीक्षण अभियन्ता, आरयूआईडीपी, पीआईयू, रतनगढ़।
3. एमसीएम सीएमएससी.02 रतनगढ़।

सहायक अभियन्ता
आरयूआईडीपी, पीआईयू, रतनगढ़

APPENDIX 4: ENVIRONMENTAL SITE INSPECTION REPORT**Report 01: Environmental Site Inspection Checklist**

PROJECT NAME: Rajasthan Urban Infrastructure Development Project (RUIDP) Sub-Project Name – Drainage Network and Construction of Drainage Pumping Station		CONTRACT NUMBER: RSTDSP/NAW-RAT/DR/01			
DATE: 20/02/2024		SECTOR: Drainage Network			
LOCATION (Name of Sites Visited): Ratangarh Town		Contractor: M/s RGI			
PROJECT ACTIVITY: SWPS and Pipe Laying Work		Project Activity Stage- Construction Stage Site visit has done by- Mr. Ugrasen Kumar (Environmental Safeguard Support).			
Monitoring Items		Compliance			
Compliance marked as Yes/No/Not applicable (NA)/Partially Implemented(PI)		YES	NO	NA	PI
EHS supervisor appointed by contractor and available on site		✓			
Construction site management plan (spoils, safety, schedule, equipment etc.,) prepared		✓			
Traffic management plan prepared		✓	✓		
Dust is under control			✓		
Excavated soil properly placed within minimum space		✓			
The construction area is confined; no traffic/pedestrian entry was observed		✓			
Surplus soil/debris/waste is disposed of without delay		✓			
Construction material (sand/gravel/aggregate) brought to the site as & when required only		✓			
Tarpaulins used to cover sand & other loose material when transported by vehicles			✓		
After unloading , wheels & undercarriage of vehicles cleaned prior to leaving the site			✓		
No chance finds encountered during excavation		✓			
Work is planned in consultation with traffic police		✓			
Work is not being conducted during heavy traffic		✓			
Work at a stretch is completed within a day (excavation, pipe laying & backfilling)		✓			
Pipe trenches are not kept open unduly		✓			
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	✓			
First aid facilities are available on site and workers informed	✓			
Workers camps are maintained cleanly		✓		
Road is not completely closed; work is conducted on edge; at least one line is kept open	✓			
Road is closed; alternative route provided & public informed if needed, information board provided	✓			
Adequate toilet & bath facilities provided		✓		
The contractor employed local workers as far as possible	✓			
Workers camp set up with the permission of PIU		✓		
Adequate housing provided	✓			
Sufficient water provided for drinking/washing/bath	✓			
No noisy work is conducted in the nights	✓			
Local people informed of noisy work	✓			
No blasting activity conducted				✓
Pneumatic drills or other equipment creating vibration is not used near old/risky buildings				✓
Toilet facility provided at the site		✓		
No public/unauthorized entry observed in work site	✓			
Children safety measures (barricades, security) in place at works in residential areas	✓			
Prior public information provided about the work, schedule and disturbances	✓			
Caution/warning board provided on site	✓			
Guards with red flag provided during work at busy roads	✓			
Workers using appropriate PPE (boots, gloves, helmets, ear muffs etc.)		✓		
Workers conducting or near heavy noise work is provided with ear muffs	✓			
Contractor is following standard & safe construction practices	✓	✓		
Deep excavation is conducted with land slip/protection measures	✓			

Submitted by:

Name: Ugrasen Kumar

Designation: Environmental Safeguard Support,

CMSC-II, Jodhpur Zone

Report 02: Environmental Site Inspection Checklist

PROJECT NAME: Rajasthan Urban Infrastructure Development Project (RUIDP) Sub-Project Name – Drainage Project	CONTRACT NUMBER: RSTDSP/BUN –BHM/DR/01			
DATE: February 2024	SECTOR: Drainage Project			
LOCATION (Name of Sites Visited): RMC Plant jait Sagar Nala, Lanka Gate Road, Bundi Bypass, Silor Road	Contractor: M/s RGI-RBIPL JV			
PROJECT ACTIVITY: Concrete Mixing, Excavation work, raft reinforcement for PCC & RCC work in progress. Excavation, PCC and laying work in progress.	Project Activity Stage- Construction Stage Site visit has done by- Mr. Naresh mahawar, Social Safeguard Support, CMSC 01.			
Monitoring Items	Compliance			
Compliance marked as Yes/No/Not applicable (NA)/Partially Implemented(PI)	YES	NO	NA	PI
EHS supervisor appointed by contractor and available on site	✓			
Construction site management plan (spoils, safety, schedule, equipment etc.,) prepared	✓			
Traffic management plan prepared		✓		
Dust is under control		✓		
Excavated soil properly placed within minimum space	✓			
The construction area is confined; no traffic/pedestrian entry was observed	✓			
Surplus soil/debris/waste is disposed of without delay		✓		
Construction material (sand/gravel/aggregate) brought to the site as & when required only	✓			
Tarpaulins used to cover sand & other loose material when transported by vehicles	✓			
After unloading , wheels & undercarriage of vehicles cleaned prior to leaving the site	✓			
No chance finds encountered during excavation	✓			
Work is planned in consultation with traffic police		✓		
Work is not being conducted during heavy traffic	✓			
Work at a stretch is completed within a day (excavation, pipe laying & backfilling)	✓	✓		
Pipe trenches are not kept open unduly	✓			
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	✓			
First aid facilities are available on site and workers informed	✓			
Workers camps are maintained cleanly				
Road is not completely closed; work is conducted on edge; at least one line is kept open	✓			

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

Submitted by:

Name: Naresh Mahawar

Designation: Social Safeguard Support,

CMSC-I, Jaipur Zone

Report 03: Environmental Site Inspection Checklist

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP) Sub-project Name – Water Supply & Wastewater Subproject	CONTRACT NUMBER: RSTDSP/BUN/01
Month: 07-March-2024	SECTOR: Sewage Treatment Plant site
LOCATION (Name of Sites Visited): STP site.	Contractor: M/s RGI-RBPLI Pvt. Ltd.
PROJECT ACTIVITY: concrete mixing, excavation work, raft reinforcement for PCC and RCC work in progress. Excavation work in progress.	Project Activity Stage- Construction Stage Site visit has done by- Mr. Vardan Srivastava, Environmental Safeguard Professional,CMSC-01

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

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

Submitted By:

Name: Vardan Srivastava

**Designation: Environmental Safeguard Professional
CMSC-01, Jaipur Zone**

Report 04: ENVIRONMENTAL SITE INSPECTION CHECKLIST

PROJECT NAME: Rajasthan Urban Infrastructure Development Project (RUIDP) Sub-Project Name – Drainage Network and Construction of Drainage Pumping Station	CONTRACT NUMBER: RSTDSP/NAW-RAT/DR/01			
DATE: 30/03/2024	SECTOR: Drainage Network			
LOCATION (Name of Sites Visited): Ratangarh Town	Contractor: M/s RGI			
PROJECT ACTIVITY: SWPS and Pipe Laying Work	Project Activity Stage- Construction Stage Site visit has done by- Mr. Ugrasen Kumar (Environmental Safeguard Support).			
Monitoring Items	Compliance			
Compliance marked as Yes/No/Not applicable (NA)/Partially Implemented(PI)	YES	NO	NA	PI
EHS supervisor appointed by contractor and available on site	✓			
Construction site management plan (spoils, safety, schedule, equipment etc.,) prepared	✓			
Traffic management plan prepared	✓	✓		
Dust is under control	✓	✓		
Excavated soil properly placed within minimum space	✓			
The construction area is confined; no traffic/pedestrian entry was observed	✓			
Surplus soil/debris/waste is disposed of without delay	✓			
Construction material (sand/gravel/aggregate) brought to the site as & when required only	✓			
Tarpaulins used to cover sand & other loose material when transported by vehicles		✓		
After unloading , wheels & undercarriage of vehicles cleaned prior to leaving the site		✓		
No chance finds encountered during excavation	✓			
Work is planned in consultation with traffic police	✓			
Work is not being conducted during heavy traffic	✓			
Work at a stretch is completed within a day (excavation, pipe laying & backfilling)	✓			
Pipe trenches are not kept open unduly	✓			
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	✓			

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

Submitted by:

Name: Ugrasen Kumar

Designation: Environmental Safeguard Support,

CMSC-II, Jodhpur Zone

Report 05: Environmental Site Inspection Checklist

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project (RSTDSP) Sub-project Name – Wastewater & Water Supply Project	CONTRACT NUMBER: RSTDSP/BUN/01
Month: March 2024	SECTOR: Water Supply Project
LOCATION (Name of Sites Visited): STP (6.5 MLD), Bohara Gali, Holi Ka Khunt , Musafir Khana, Tiwari Pada , Brahmpuri	Contractor: M/s Khilari Infrastructure Pvt. Ltd.
PROJECT ACTIVITY: SBR Raft reinforcement work, brick masonry work & 5 th lift column casting work, Earthwork excavation for Water Pipe line, Pipe laying ,Road restoration work in progress	Project Activity Stage- Construction Stage Site visit has done by- Mr. Naresh Mahawer, Social Safeguard Support Staff , CMSC-01

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

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

Submitted By:

Name: Naresh Mahawer

Designation: Social Safeguard Support Staff

CMSC-01, Jaipur Zone

APPENDIX-5: COMPLIANCES OF ENVIRONMENTAL SELECTION CRITERIA

Components	Criteria	Design Considerations (if criterion is not met)	Compliance Status
All subprojects			
	Subproject will avoid potentially significant adverse impacts that are diverse, irreversible or unprecedented (ADB SPS Category A for environment).		Complied- All projects are under category B as per ADB SPS, no significant impact is envisaged from any sub project
	Comply with all requirements of ADB SPS 2009 and follow procedures set in this EARF.		Complied- EARF and ADB SPS is being complied in all sub projects
	Comply with relevant national, and local laws, rules and regulations regarding EIA, environmental protection, pollution prevention (water, air, noise, solid waste, etc.), wildlife protection, core labor standards, physical cultural resources, health and safety, and other laws in specific sectors as indicated below		Complied- Compliance of all relevant national and state laws, rules and regulations are being done in all sub projects
	Reflect inputs from public consultations	Refer to ADB SPS requirements on meaningful consultations ¹³	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

¹³ 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”

Biodiversity	Avoid locating subprojects in critical habitats, such as, but not limited to, wildlife/bird sanctuaries, national parks, tiger reserves, elephant reserves, conservation reserves or core zone of biosphere reserves. It provides preliminary analysis using the International Biodiversity Assessment Tool (IBAT) key biodiversity areas, protected areas, IUCN red list species and likelihood of critical habitats per town. Should not directly affect environmentally protected areas, core zones of biosphere reserves and highly valued habitat	If criterion is not met, this is potential for Category A therefore alternate location should be considered. A Biodiversity Expert shall assess and confirm critical habitat qualification.	Complied- There are no ecological sensitive areas within the areas of project impact.
	If work is proposed with the aim of improving the conservation or management of designated subproject sites (e.g. improved drainage), this must only be undertaken: (i) after a comprehensive study and development of management plans and criteria; and (ii) with the direct involvement and approval of national and local bodies responsible for the subproject site.		Not applicable
Physical Cultural Resources	Should not result in the destruction/damage of or encroachment onto physical cultural resources (PCR) ¹⁴ such as archaeological monuments; heritage sites and movable or immovable objects, sites, structures, group of structures, and natural features and landscapes that have archaeological, paleontological, historical, architectural, religious, aesthetic or other cultural significance.	If town has potential PCR, conduct Heritage Impact Assessment (HIA). For legally protected PCRs: (i) if location is within 300 m of notified PCRs such as protected monuments/sites and there is no alternative, permissions from the ASI or State Department of Archaeology shall to be obtained prior to finalization of detailed engineering design.	Being Complied— Consultation/permission from ASI and or State Department of Archaeology is being taken. Heritage Impact Assessment is done.
Existing Facilities to	Conduct environmental audit of existing facilities ¹⁵ per ADB SPS	For non-compliances identified in the	Complied- Environmental audit of

¹⁴ 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.”

¹⁵ ADB SPS Appendix 4 para 12 on Existing Facilities

be rehabilitated or expanded		environmental audit, provide corrective action for each area of concern including cost and schedule to be included in the subproject EMP.	existing facilities has been done, where rehabilitation or upgradations works are proposed
Associated Facilities ¹⁶	Analyze environmental impacts and risks to be included in the IEE		Complied- environmental impact assessment of associated facilities done
Asbestos-containing materials (ACM) including, but not limited to, pipes, roofing, insulation materials, excess pipes stored in PHED campuses, walls, etc.	Avoid handling or removing any ACM. Ensure asbestos concrete (AC) pipes facilities containing asbestos will not be disturbed and left in-situ. Appendix 6 provides asbestos management plan. RUDSICO shall include AMP in all contracts.	If ACM is suspected, asbestos verification by Asbestos Management Expert is required. Prepare site-specific asbestos management plan (AMP) prepared. Appendix 6 provides a AMP prepared for a sample subproject (Nathdwara Water Supply 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 possibility of encountering ACM
	When designing subproject infrastructure that involves excavation in urban areas the relevant authorities must be consulted to ascertain the location of any ACM prior to any subproject activity. Locations of new infrastructure must then be designed to avoid excavating or disturbing any ACM.		Being Complied- AC pipes in existing water supply networks are being ascertain after consultation from the PHED and existing AC pipes will remain in-situ and will not be removed from earth
Right-of-way	Locate water supply pipelines within the right of way (ROW) of other linear structures (roads, irrigation canals) as far as possible, to reduce new land acquisition.	If criterion is not met, prepare Resettlement Plan according to Resettlement Framework	Complied- water supply and wastewater pipes are planned in ROW only, no private land acquisition will be done for pipe laying works
	Ensure that pipelines ROW do not require land acquisition from individual farmers that is a significant proportion of their total land holding (>10%).	If criterion is not met, prepare Resettlement Plan according to Resettlement Framework	

¹⁶ 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”

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

	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).	(i) conduct alternate site analysis, justify the selected site; (ii) develop odor mitigation measures to prevent and control odor/air emissions – design measures, and operational practices that are feasible and practical in local conditions and include in IEE; (iii) develop layout plan with maximum buffer to nearby houses; (iv) provide a peripheral green buffer (at least three rows of trees within the STP compound); and (v) public information – consult local community, inform about the need, process adopted to select sites, its suitability, and measures adopted for odor prevention and control	
	As far as possible Sewage Pumping Stations (SPS) and wet wells should be located preferably 50m from any inhabited areas and from sites such as hospitals, schools, temples, etc. to minimize nuisance impacts from odor, rodents, etc.	In case of non-availability of suitable sites due to land and technical design constraints in already developed areas, where 50 m buffer is not available, following procedures shall be adopted and documented in order to finalize sites for implementation of project: (i) conduct alternate site analysis, justify the selected site; (ii) develop odor mitigation measures to prevent and control odor/air emissions – design measures, and operational practices that are feasible and practical in local conditions and include in IEE; (iii) develop layout plan with maximum buffer to nearby houses; (iv) provide a peripheral green buffer (at least three rows of trees within the pumping station compound); and (v) public information – consult local community, inform about the need, process adopted to select sites, its	Complied- SPS and wet wells are designed at least 50 mts away from habitations and sensitive receptors

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

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

Background of Asbestos

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

exposures as short in duration as a few days have caused mesothelioma in humans. Every occupational exposure to asbestos can cause injury of disease; every occupational exposure to asbestos contributes to the risk of getting an asbestos related disease. Permissible Exposure Limit (PEL) for asbestos is 0.1 fibers per cubic centimeter of air as an eight hour time weighted average (TWA), with an excursion limit (EL) of 1.0 asbestos fiber per cubic centimeter over a 30 minutes period.

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

Purpose of ACM Management Plan

7. The purpose of this Asbestos Management Plan (AMP) is to identify, use appropriate methodology and scientifically handling /disposal of the Asbestos Containing Materials (ACM) in order to comply with the applicable National legislation and International standards in sync with norms of ADB's SPS 2009. ADB has mandated (as per Appendix-5 of ADB SPS 2009) prohibit the investment activities list - production of, trade in, or use of un-bonded asbestos fibers is deliberated. As per SPS 2009 Safeguard Requirement 1, it is emphasized "that the borrower/ client will provide workers with a safe and healthy working environment" in the work areas with accounted risks inherent to the work zone and defined safety instructions and standard operating procedures identifying roles and responsibilities.

Regulatory Frameworks for Asbestos Containing Materials

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

Table.1: REGULATORY FRAMEWORK, STANDARDS AND PROTOCOL

Government of India Laws, Regulations and standards on Asbestos Applicable to the projects	Requirements for the project

IS 11768: 1986/ 2005: Recommendations for disposal of asbestos waste material	The standard emphasis that every employer who undertakes work which is liable to generates asbestos containing waste, shall undertake adequate steps to prevent and /or reduce the generation of airborne dust during handling, storing, transportation and final disposal of final disposal of asbestos and asbestos containing products. • The crux is waste avoidance: the practice inculcated should focus on the minimal waste generation. • Waste Collection: In the project circumstance, the waste is referred to the damaged powered asbestos which will be collected in the Permissible plastic bags to be disposed off to the nearest TSDF facilities.
IS 12081: Pictorial Warning to be implemented on equipment containing Asbestos Contaminated Products.	The objective of the caution is to make the person handling to take all pre-cautionary measures and make them aware of all the possible risk. 
IS 11451: Safety and Health Requirements related to Occupational Exposure to Asbestos contaminated Products.	In the project the norms pertaining to limiting number of hours working with ACM will be 8.0 hrs/48 hrs a week and the medical examination has to be periodic; the environmental monitoring has to be done as per the protocol. The safety at work place shall be enforced.
IS 11768: Waste Disposal Procedure for Asbestos Containing Products.	The protocol pertaining to disposal of the waste is emphasized, the collection of ACM powered will be in permissible plastic bags, which will be twisted tight at the neck so that the wear and tear due to abrasion will be minimum and the transportation of the asbestos waste has to be done by the authorized vendor to the approved landfill site that in the project case id TSDF.
Sampling of asbestos fiber (as per BIS-11450) has to be done regularly	The sampling and analysis protocol is emphasized. Details are given as above.

using personal sampler and determined using phase contrast microscope.	

Inventory of ACMs in Nathdwara

10. Site visit of Nathdwara town was conducted on 27.09.2023 along with Assistant Engineer-PIU, ACM of CMSC-II, Supt. Engineers and Safety Officer of Contractor. During visit no asbestos containing materials were present/ found throughout all sites. Photographs of site visit at different work sites/ subproject component is given and enclosed as **Annexure-3**.
11. Further; for the assessment of presence of AC pipes in existing water supply networks, Office of the PIU was requested to provide information for the same from PHED vide letter no. 5538 dated 01.01.2024. Details of existing AC pressure pipeline has been provided by Executive Engineer, Public Health Engineering Department (PHED), Rajsamand, District-Rajsamand, Rajasthan informed vide their letter no. 7727-29 dated 05.01.2024 that total 17.5 km AC pipes are present/ operational of different diameters (ranging from 80-200mm dia.) in the existing water supply system in the town as per record (refer **Annexure-2**). Therefore this 17.5 km AC pipe line is the only matter of concern for Nathdwara town, which need ACM management plan.

Provisions in the RSTDSP Project Regarding ACMs

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

ACM Removal procedures

13. ACM removal has to be checked in sync with the design and emphasis has to be laid to avoid the removal of ACM, in case it is unavoidable, then all the requisite safety measures are to be adopted as given below:
- Inform the Asbestos Expert/ HSE Expert prior to removal.
 - Isolate the area with access to only trained staff/ employees under supervision of Asbestos/ HSE Expert.
 - Exhibit all warnings
 - Undertaken Asbestos fiber Monitoring
 - The trained Employees have to be deputed for removal of ACM.

- The removal ACM material has to be checked with the status and extent of damage.
- Efforts should be made to remove the ACM as minimal as possible.
- The ACM removal has to be manual; it should neither be cut nor drilled.
- All removal operation should be undertaken with ACM in wet condition.
- The removed ACM will then be labeled and placed on permissible plastic sheet. It should not be put on ground directly.
- The dimension of plastic sheet should be larger than the ACM placed.
- If the ACM pipe is not damaged as about 4.0ft and above, the ACM will be subjected for in-situ disposal.
- If the ACM is damaged and broken then it has to be packed in permissible plastic bags and disposed off to TSDF.
- Prior to disposal it can be stored in isolated room-showing board of-Hazardous waste storage room.
- The hazardous waste to be disposed off to TSDF should not be stored over 90 days after the removal date of ACM at site.
- All the safety procedures and safety gears should be worn by all the employees engaged in the ACM Removal operation.
- The Asbestos fiber monitoring, soil monitoring has to be undertaken during the operation as well.
- The process of removal of ACM will be completed after the removed ACM and its suitably disposed off either in-situ or to the isolated room prior to disposal at TSDF.
- Post ACM Removal asbestos fiber monitoring has to be undertaken to ensure the work zone is safe to resume further operations.

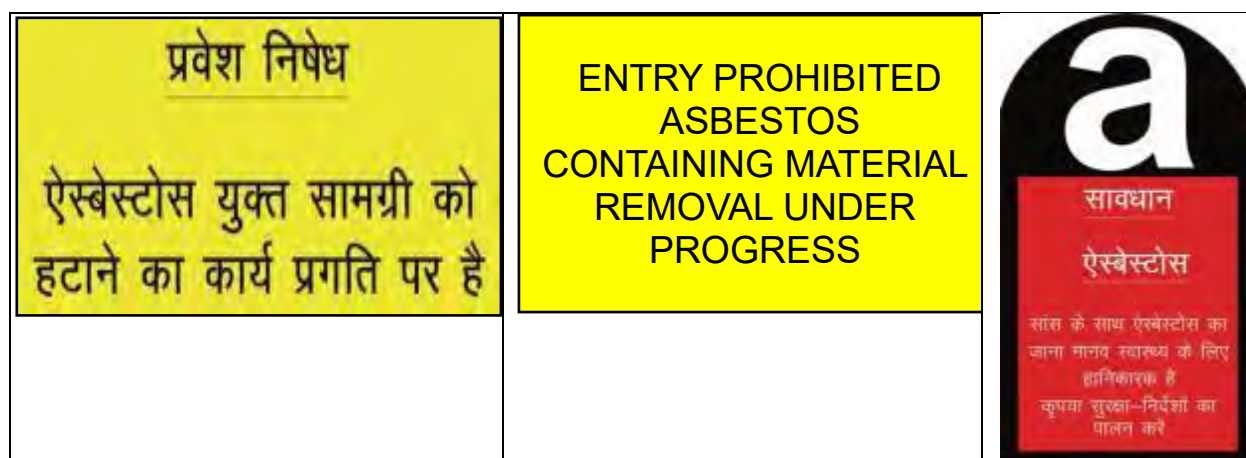


Figure 1: Asbestos warning signage during removal of ACM from site

Safe Practices in Handling ACM

14. Proper handling and PPE:

- Cover up and wear PPE (Personal Protection Equipment) including respirator or dust mask.
- Make sure the mask has two straps to hold it firmly in place. Don't use masks that only have one.

- Also wear a Hard hat, gloves, disposable coveralls with a hood, and safety glasses or goggles to protect eyes
- Do not eat, drink or smoke in the work area as you may inhale or eat dust. Wash your hands and face with soap and water before meal breaks and when finished work for the day.
- Do not use power tools Asbestos fibers can be released if power tools are used for anything other than the removal of screws.
- Do not water blast or scrub with a stiff broom or brush. It is illegal to water blast asbestos cement sheets. If the material has been accidentally water blasted or has suddenly deteriorated in some way, you should call a licensed asbestos removal DBO Operator
- Wet gently with water when removing asbestos cement pipes, use a pump spray to lightly dampen the pipes and keep the dust down. Remember: Not to water blast asbestos cement materials.
- Avoid drilling and cutting into asbestos products.
- Do not drill holes through and never cut instead remove the entire product and replace it with a non-asbestos product.
- Don't drop fiber pipes remove them carefully, Lower them to the ground, don't drop them, to minimize breakage.
- Lay plastic sheeting under the work area to prevent any dust contaminating the ground. Use 200-micron thick plastic sheeting or bags or as permissible these must not be made from recycled materials or re-used for any other purpose.
- The work area has to be barricaded and there should be no un-authorized person allowed. Only Trained ACM expert should be allowed to handle the ACM along with EHS Expert.
- Close windows and doors and seal vents to stop dust getting into the house; ask neighbors' to do the same.
- Seal off other places where dust can get in.
- Remove soft furnishings like rugs, clothes, jute bags from the work area, and seal anything with plastics if it cannot be moved.
- All the AC broken pipes have to be collected and stacked properly with 200 micron plastic wrapping with warning signage.
- Do not leave plastic sheet lying about where they may be further broken or crushed by people or traffic.
- Remove all ACM by the trained handler.
- Since we are amidst of dry climatic conditions due care must be taken to see that no waste broken pipes or fittings are left loose and outside the confined area and may be dampened as required.
- Mark and add signage.
- Due care has to be taken to collect the dampened waste in a permissible standard bags with proper warning signage's.

Storage of ACM Pipes

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

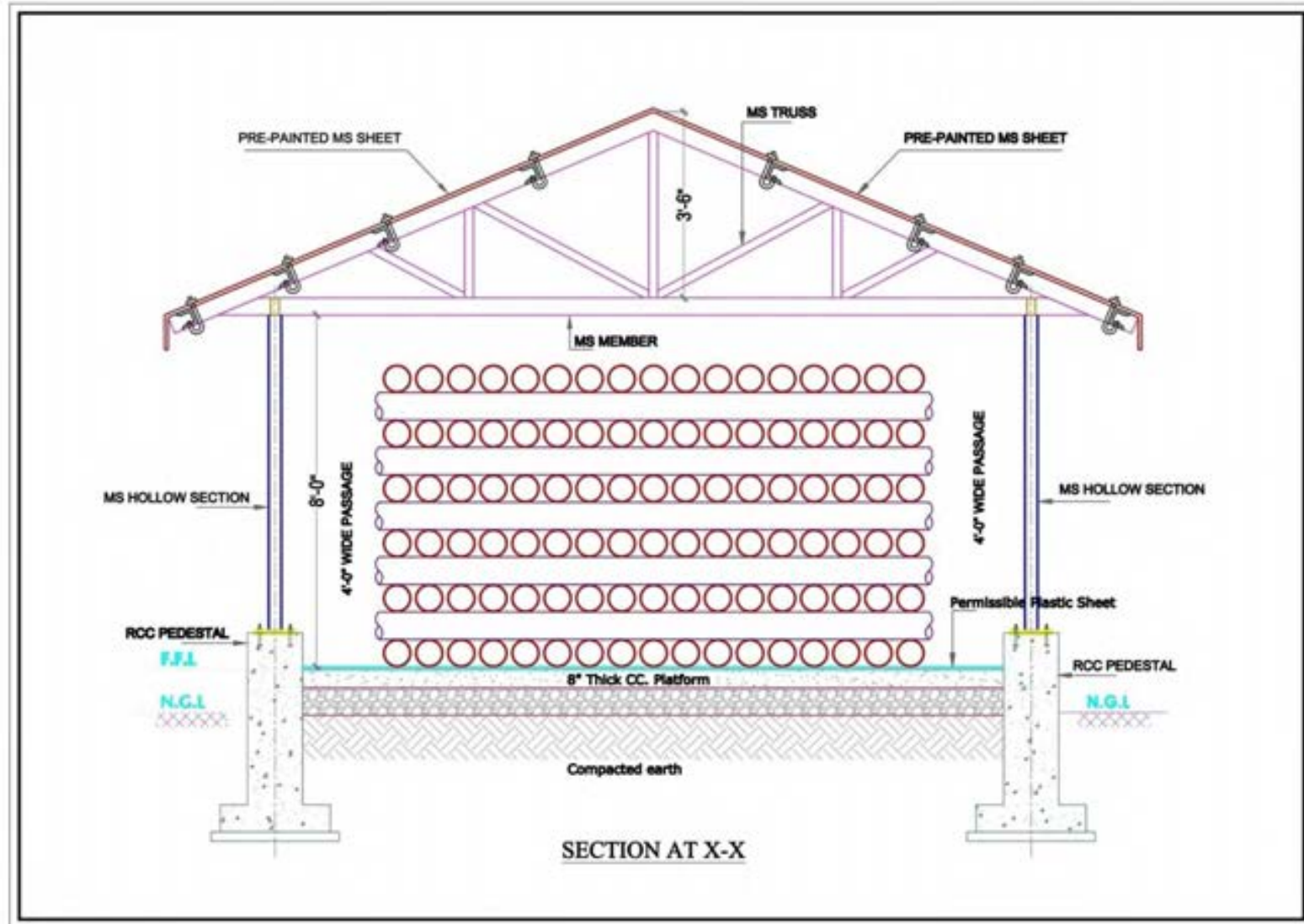


Figure 2: Schematic diagram showing ACM Pipes stacking

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

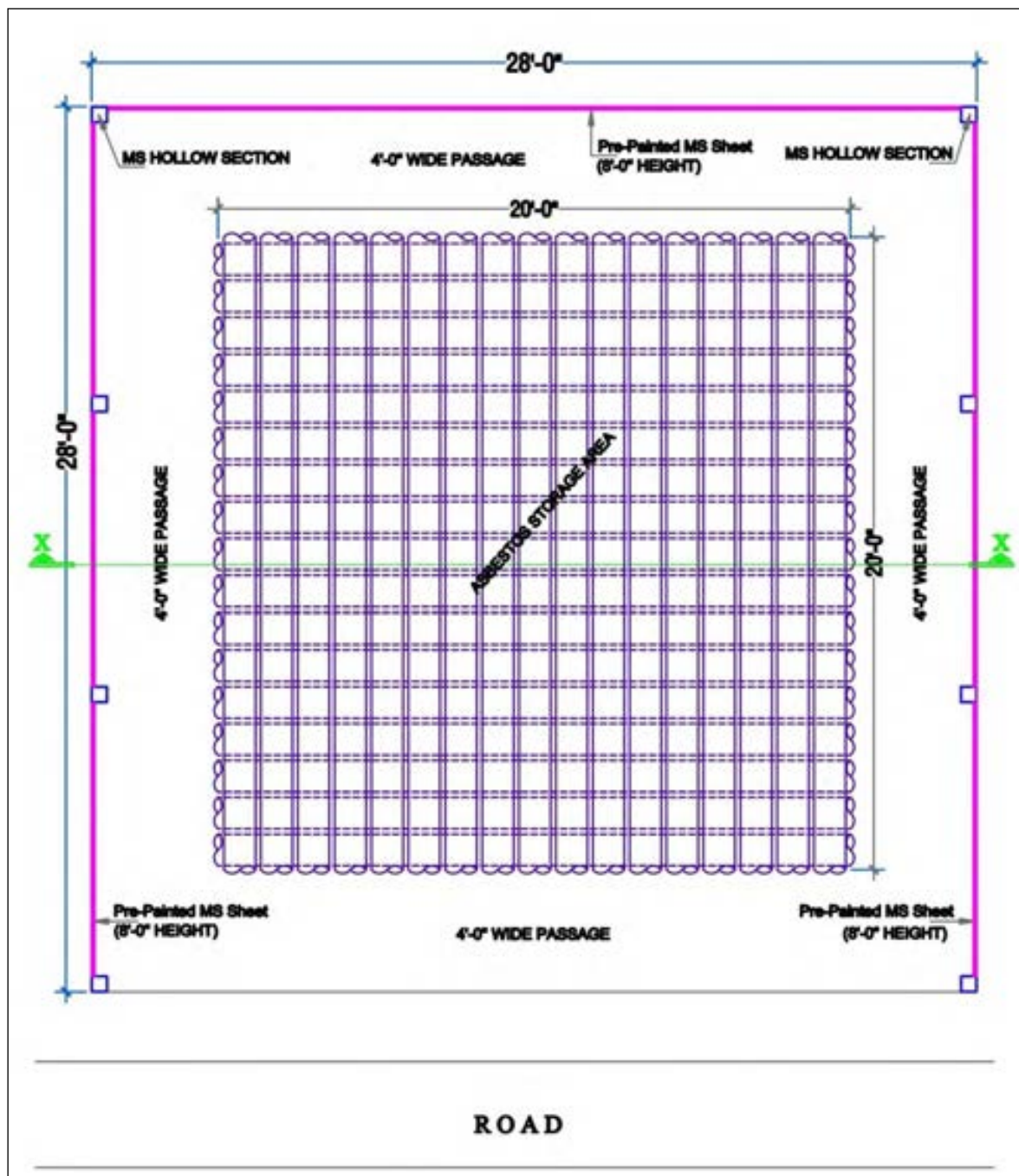


Figure 3: Schematic diagram showing ACM Pipes storage area

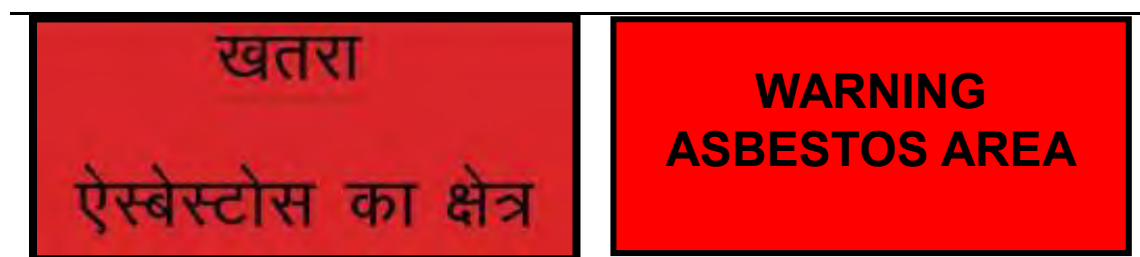


Figure 4: ACM: In-situ storage warning

Disposal of ACMs

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

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

18. It will be responsibility of DBO contractor and PIU to send the ACMs to authorized agency for final disposal of ACMs. List of approved Treatment, Storage and Disposal Facilities (TSDF; as per Table-2), who deal with ACMs in Rajasthan is given below-

Table 2: LIST OF APPROVED TSDF OPERATORS IN RAJASTHAN

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

:

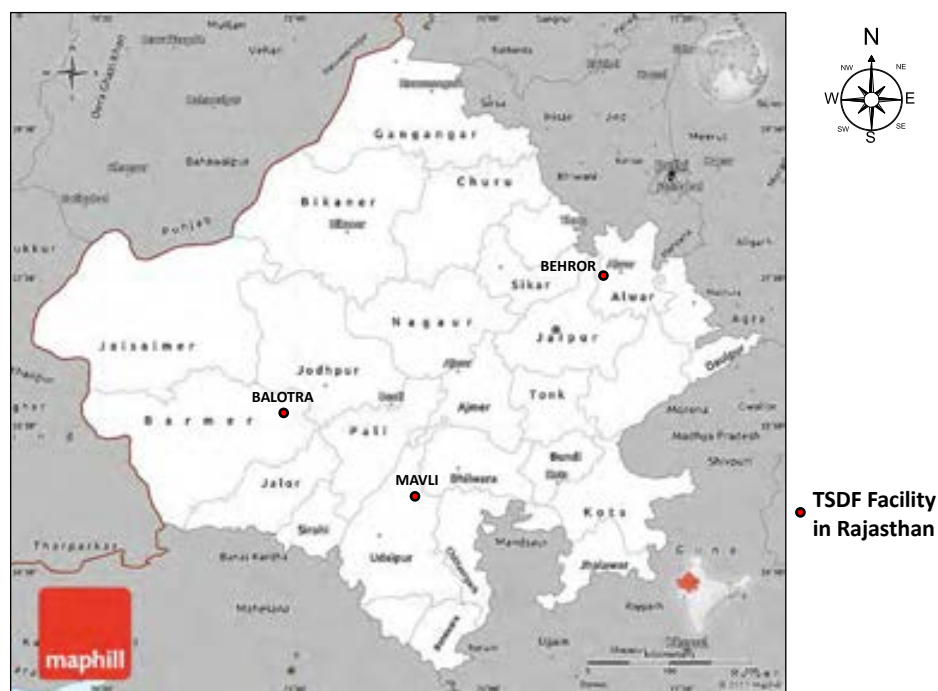


Figure 5: Map of the locations of approved TSDF in Rajasthan.

19. All the records in the pre-determined format are to be maintained and the disposal as stated in the applicable National legislation is to be followed. Any innovative use of the discarded ACM with the permissible law frame must be approved by respective Regulators prior to practice.

Standard Operating Procedures (SOPs) for Handling, Transportation and Disposal of ACMs

20. Two Standard Operating Procedures (SOPs) are prepared for safe handling, transportation and disposal of ACMs. These SOPs are to be followed by DBO contractor if ACMs is encountered at any site.

21. Standard Operating Procedure-01- are as follows-

- a. Objectives – to keep the work zone safe and secured.
- b. Requirements—identify all the requirements needed for handling AC in the specific site and project
- c. Conduct and ensure awareness and vocational training to ACM handlers
- d. Conduct a comprehensive identification and risk assessment of ACMs
- e. Apply restriction/ re-handling of ACM on ground-use of PPE. Ensure that workers handling ACM have the right PPEs as follows:
 - Hard helmet

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

22. Outline of SOP-1 is given in below **Figure 6**.

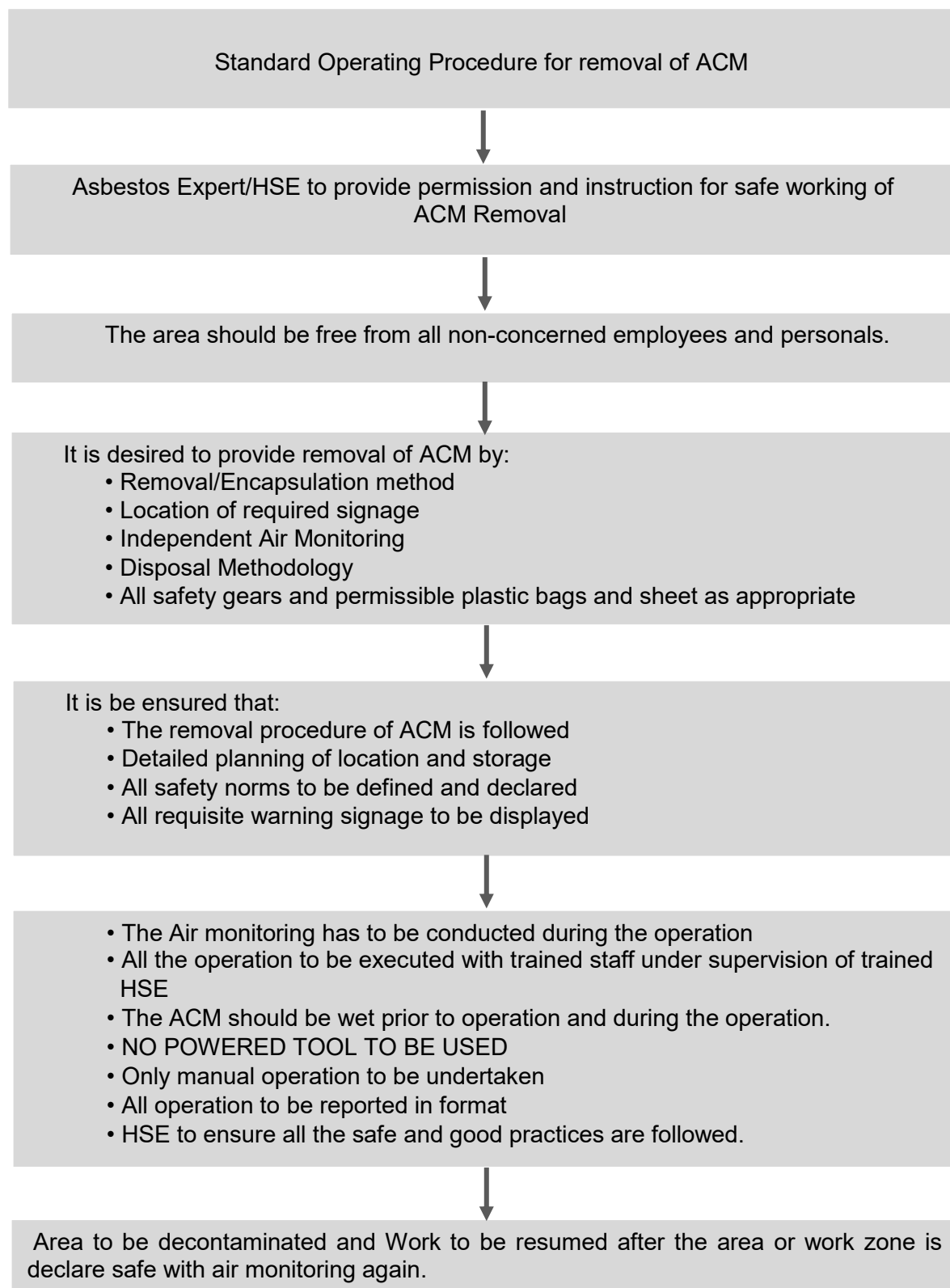


Figure 6 -Standard Operating Procedure Flow Sheet

23. **Standard Operating Procedure-02-** SOP-2 is formulated for Asbestos Fiber Monitoring, Analysis and Identification. SOP-2 is described as follows -

24. Principle- The collection of environmental samples including air must follow an appropriate sampling procedure. A review of method for sampling of asbestos fibers has been published (IPCS, 1986). The most commonly used analytical method involves phase contrast optical microscopy (PCOM) in the work place and transmission electron microscopy (TEM) in the general environment. The phase contrast optical microscopy (POCM) is universally recommended for asbestos analysis (Eache and Groff, 1997; Dion and Perrault, 1994) including Bureau of Indian Standard. POCM coupled with polarized light is largely used for asbestos analysis in solid samples (USEPA, 1993). The fiber monitoring has to be done by any NABL/ MOEF&CC accredited laboratory either in-house or by third party.

25. Monitoring of Asbestos Fiber in Air- A general survey of inside and outside the storage sites of the work zone has to be conducted to choose the sampling sites. Sampling is to be carried out at visually selected locations appeared more prone to emission or possibility of release of asbestos fiber. The sample collected by drawing a measured quantity of air through cellulose ester a membrane filter by a battery-operated sampling pump that was fully charged to operate continuously over the chosen sampling time. The exposed filters will then be placed into plastic petri dishes and transferred carefully to the laboratory.

The predominant average hourly wind direction in Nathdwara varies throughout the year. The wind is most often from the south west. Pre-dominant wind blows from south west to north east direction in the town.

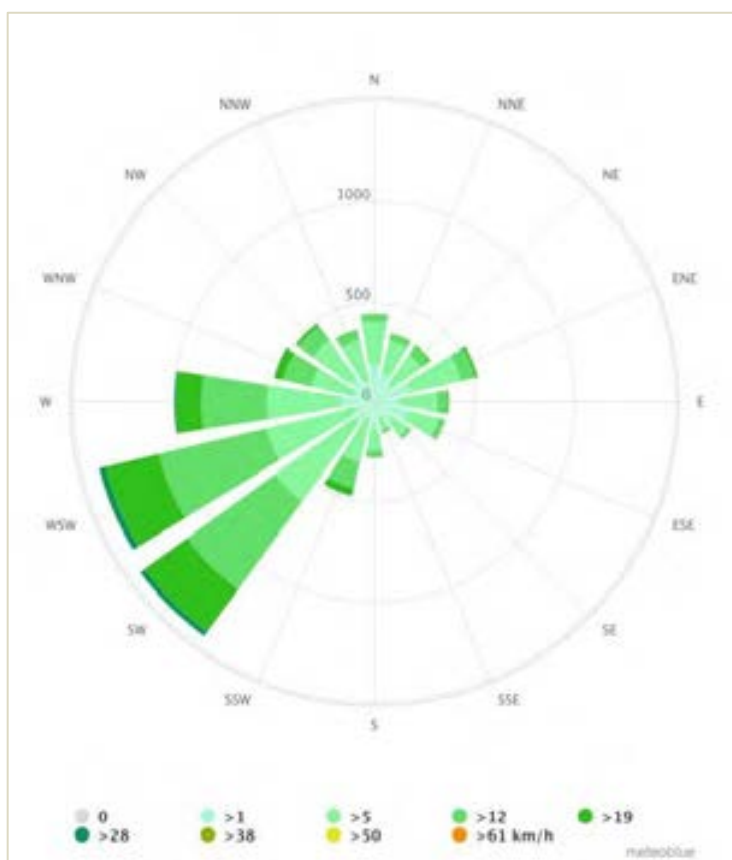


Fig. 7: Pre-dominant Wind Direction in Nathdwara, District-Rajsamand, Rajasthan

26. Two types of samples are to be taken, one within the workers breathing zone that is 300mm radius extending in front of the face, and measured from the midpoint of a line bisecting the ears called personal samples. The samples taken at a fixed location mostly

near to the source point called area or static samples. Personal sampler model “XX 5700000” and low volume vacuum/pressure pump model “XX5622050” attached with monitor or cowl model “MAWP025AC” of Millipore Corporation, USA are to be used for the collection of personal and area samples, respectively. The flow rate of pump is to be adjusted to 1litre per minute. The flow rate checked before and after in each monitoring, those samples showing the difference by >10 percent from the initial flow rate are to be rejected. In both the samples filter holder (Cowl) always pointed downward position to avoid the deposition of heavy particles. An ester cellulose membrane filters “AAWP02500” having 0.8 µm-1.2 µm pore size diameter are to be used throughout the sampling for asbestos counts at work environment.

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

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

Where:

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

N = total no. of fiber counted,

n = number of graticule areas observed,

A= effective filter area in mm²

a= graticule counting area in mm²,

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

t= single sample duration in minutes

- 28.** To rule out the probability of the air borne asbestos in the existing scenario at the said site as well as other similar sites at the different work zones, it is necessary to have the asbestos fiber monitoring and sampling counts to be recorded at regular intervals. The environmental air sampling stations will have to be minimum three at 120 degree angle, within 1000-500m from the ACM. The sampling frequency has to be in all three stages- Pre-Construction, Construction and Post Construction, while the personal sampling has to be done as stated above.
- 29.** Bureau of Indian Standards (BIS) Guidelines for Safe Use of Products containing Asbestos states that “Asbestos cement products (such as AC pipes) generally contain about 10-15% Asbestos fibers in a cement matrix that comprises the rest of the materials and are termed as locked in asbestos products as these products have the asbestos fibers bound

in cement. The possibilities of air borne asbestos fiber will be in case of mishandling of encountered pipes with unsafe practice. During storing and installation; recommended work practices shall be followed to avoid harmful exposure". According to Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016, any waste with asbestos concentration limit of 10,000 mg/kg (*i.e.* 1%), however this will apply only if the asbestos containing substances are in a friable, powdered or finely divided state. Under the Basel Convention¹⁷, asbestos or asbestos waste in the form of dust and fibers is classified as hazardous waste.

Roles and Responsibilities with Estimated Cost for ACM Management

30. This contract under RSTDSP is Design, Build and Operate (DBO); therefore, primary responsibility of ACM management is of DBO contractor. RUDSICO-EAP (formerly known as RUIDP); being principal employer has to ensure that ACM Management Plan is being implemented as per applicable rules and regulations. Roles and responsibilities of different entities and estimated cost of implementation of ACM Management Plan is given in below Table-3.

Table 3: Roles and Responsibilities and Cost Estimates

PRE-CONSTRUCTION				
Activities	Responsibilities	Associated Documents	Estimated Cost	Remark
Design to encounter minimal ACM, and then Identification & Inventorization ACM - AC pipes & fittings	RUDSICO-EAP & DBO CONTRACTOR	Form-I (Refer Annexure-1)	Rs.100/km	The onus of the minimal encounter of ACM is vested upon the RUDSICO-EAP and inventory will be with the DBO Operator and has to be annually verified by RUDSICO-EAP.
Define & confine ACM storage area-in-situ			Rs.65/Sq.m	The storage area made available will be confined and fenced.
Warning signage near the ACM work site, storage and on AC pipes in local language**			Rs.500/label	The signage labels can be printed, sticker pamphlets or painted.
Training of personals handling the AC pipes and fittings	DBO CONTRACTOR	Form-II (Refer Annexure-1)	Rs.1000/Person	All requisite safety gears should be made available at all sites.
Use of safety Gears			Rs.6000/Person	All the safety gears should be silicon based and suitable for Asbestos protection.

¹⁷ Basel Convention on the Control of Trans-boundary Movements of Hazardous Wastes and their Disposal, adopted in 1989

Briefing of Emergency Response Plan			Rs.500/Person	All the risk zones with respect to white card has to be briefed.
Confined storage with access control plan			Rs.5000/site	Inward and outward movement of authorized person must be allowed and has to be guarded or should be under key control.
Pre-history medical records of the ACM handling team			Rs.3000/ Person	All requisite medical test, Respiratory test, lungs/ Chest X-ray/CT scan, Blood Test, Lower Abdomen examination etc.
CONSTRUCTION PHASE				
Monthly Inspection & Annual Environmental Monitoring.	DBO CONTRACTOR	Form-III (Refer Annexure-1)	Rs.40,000/ sample	The sampling zone should be 500m from the storage site and personal sampling has to be as per SOP-2.
Reporting in SEMR	RUDSICO-EAP/ DBO CONTRACTOR	None	Nil	As per ADB Format
Collection of Health records in compliance to the local laws	DBO CONTRACTOR/ RUDSICO-EAP/ PHED/ LSG	Form-IV (Refer Annexure-1)	Nil	For regular evaluation & identification of any abnormality.
Ensure adoption of all standard operating procedure		SOP-1 & 2	Nil	As revision desired on basis of Site-specific information may be upgraded in the SOP-1 & 2 if required
Collection, Segregation, Reception and Disposal as per National norms of ACM		Form-V (Refer Annexure-1)	Nil	Standard Regulatory format has to be filled and disposed off within 90 days.
Use of safety gears prior to handling of ACM based on White Card.		White Card- Page-11	Nil	Periodic training can be site specific
Disposal of ACM to the identified TSDF Facility to be done as per procedure within or prior to 90 days		SOP-2	1500/ton of waste plus freight as per actual.	Within 90 days from the generation of waste, in case of existing waste it has to be disposed off within 90 days from the project start.
To inform and fill the returns in the prescribed manifest as per HWMR.		Form-V (Form-10 of the Rule HWMR- refer Annexure-1)	Nil	90 days from the start of work
To facilitated a restricted confined storage space with access control with proper inventorization.		Form-II (Refer Annexure-1)	Nil	Site specific
In-situ storage of ACM.	DBO CONTRACTOR	Form-VI (refer		The storage of existing and encountered ACM

		Annexure-1)		pipes (more than 4.0ft) will be stacked end to end at 90 deg. With vertical stacks, 8 inches above the ground, covered with permissible plastic sheet. The campus custodian – viz. PHED etc. should also be informed about the In-situ storage of ACM and its impact.
ACM removal	DBO CONTRACTOR	--	--	Follow ACM Removal
Record maintenance of ACM in-situ and disposed off to TSDF	DBO CONTRACTOR	Form-I & Form-IV (refer Annexure-1)	Nil	The copies of inventory generated and collected will have to be shared with Land Custodian (LC), RUDSICO-EAP and DBO Operator. To distinguish the forms they can be numbered. FORM-I (LC), Form-IV (LC)
Transits ACM storage of waste to be disposed off to TSDF	DBO Contractor	Form-IV (refer Annexure-1)	50,000/ room	An isolated storage room should be constructed with 10x10 with height of 3.5ft roofed properly for transit disposal of ACM to TSDF. DISPOSABLE ASBESTOS WASTE STORAGE ROOM HAZARDOUS WASTE CATEGORY-15.2 (As per Hazardous waste management & Handling Rules 2015).
POST CONSTRUCTION PHASE				
Compliance of AAQM, Asbestos Fiber monitoring and Soil Quality monitoring and Periodic Work zone monitoring (Asbestos fiber count) records to be maintained	DBO Contractor	SOP-2	Rs.40,000/ sample	The Asbestos Fiber count monitoring has to be conducted prior to ACM handling operation and after ACM Handling operation by an Accredited Laboratory. List of accredited laboratory will be available at Rajasthan State Pollution Control Board website- rspcb.nic.in
Health records & Periodic Medical Checkup of the personals handling ACM to be maintained.	PHED/ LSG/ DBO CONTRACTOR	Form-II (Refer Annexure-1)	Rs.3000/ Person	All the concerned employees deputed to handle or deal with ACM has to have Pre medical history and periodic medical examination done

Emergency Response Plan (ERP) & Chance Find Protocol

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

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

Check what you're working on before you start:

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

32. Flow chart of ERP is shown in below Figure 7 -

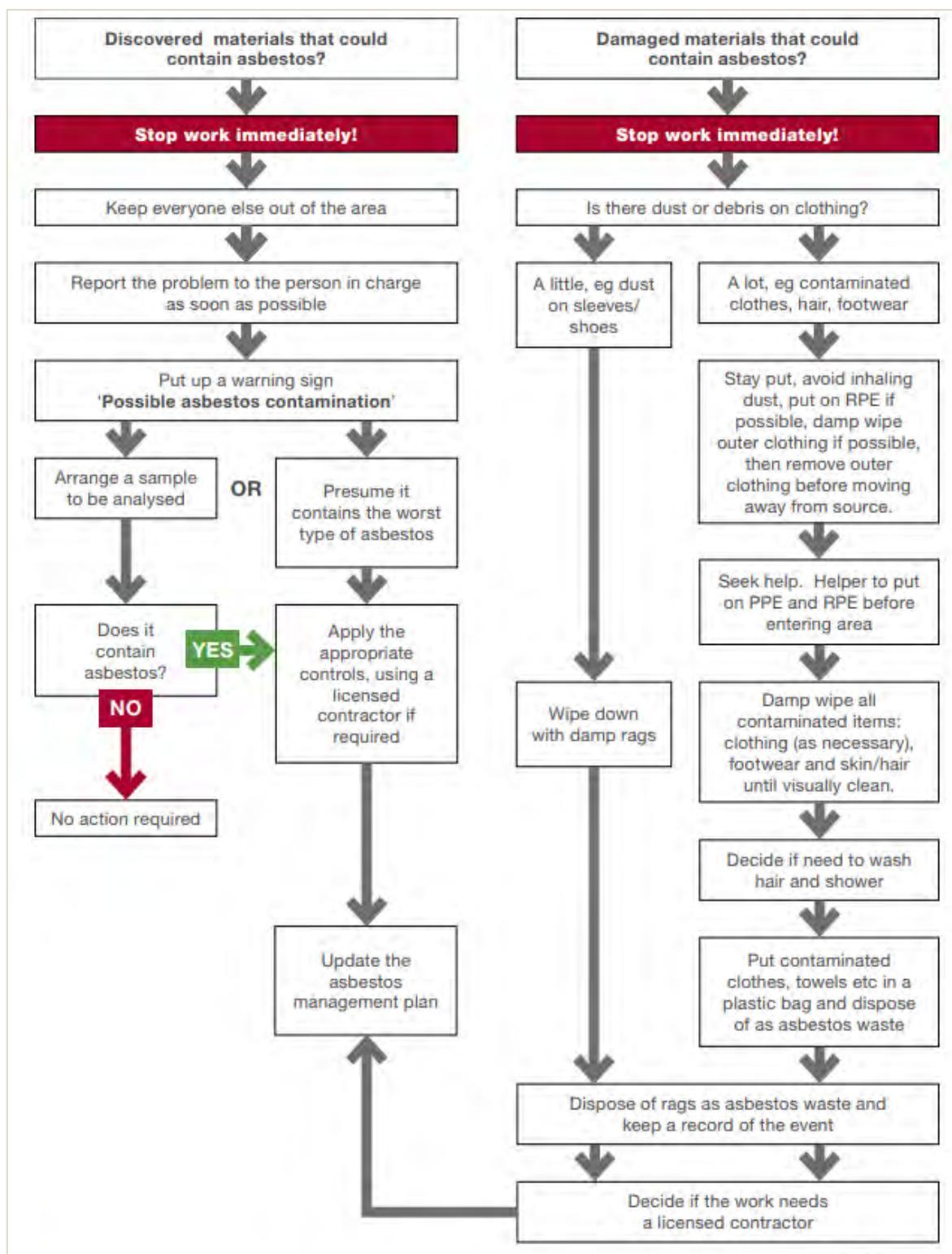


Figure 7: Flow chart of ERP

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

Summary of Asbestos Management Plan

Field	Anticipated Impact	Mitigation Measures	Responsible for Implementation/ Monitoring	Remark
Clearing, transfer and disposal of ACM pipes	Possibilities of air borne asbestos if handled unsafely, cut, drilled or broken into pieces that may cause: ☐ Inflammation of the lungs ☐ Mesothelioma ☐ Peritoneal mesothelioma ☐ Pleural plaques ☐ Asbestosis ☐ Bronchogenic Carcinoma ☐ Second hand-exposure	Implement the AMP strictly that includes identification of hazards, the use of proper safety gear and disposal methods.	DBO Contractor /RUDSICO-EAP	There has to be a suitable call to be taken for in-situ disposal if the removed ACM pipes are not damaged, full length or 4.0ft length not damaged.
Work in narrow streets	Possibilities of air borne asbestos if handled unsafely cut, drilled or broken into pieces that may cause: ☐ Inflammation of the lungs ☐ Mesothelioma ☐ Peritoneal mesothelioma ☐ Pleural plaques ☐ Asbestosis ☐ Bronchogenic Carcinoma	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.	DBO Contractor/ RUDSICO-EAP	All provision of safe working with proper signage has to be undertaken prior to work initiation, during the work and after the work.

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

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

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

FORM-II – MATRIX FOR TRAINING & RECORDS

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

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

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

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

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

Form-III- AIR QUALITY MONITORING AND RESULTS

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

FORM-IV-MEDICAL HISTORY

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

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

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

FORM –VI: IN-SITU STORAGE OF ACM

S.No	Activity	Number of Stacks	Area occupied	Details of ACM Pipes		Day/ month/ year of storage

Site History

For existing Stacks, details of re-handling of pipes in number or volume to be mentioned under supervision of Authorized Experts.

Details of Location of re-handled ACM storage, new area should be

- Minimum 10-15 ft away from campus habitation.
- 250m away from the water sources.
- 500-800m away from Children play area.
- The area should be isolated and covered from all the sides with restricted Access for Authorized Experts Only.
- Register to be maintained for Entry & Exit of personals.
- Register to be maintained for Entry & Exit of ACM
- Labels to be displayed in legible format
- Specific training of ACM to be inducted in the ACM storage area for residing population in the campus.

Details of transit storage of ACM to be maintained as per norms in an isolated storage room full covered

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



कार्यालय अधिशाषी अभियंता
जन स्वास्थ्य अभियांत्रिकी विभाग खंड राजसमन्द



क्रमांक /अअ/नाथ/2023-24/ 7727-25 दिनांक: 05/01/2024

श्रीमान अधीक्षण अभियंता
 RUIDP पीआईयू
 फेज 4 नाथद्वारा

विषय : शहरी जल योजना नाथद्वारा पर ए.सी प्रेशर पाइपलाइन का विवरण ।
 संदर्भ : श्रीमान अधीक्षण अभियंता प्रोजेक्ट आरयुआईडीपी के पत्रांक 5538 दिनांक 01.1.2024
 & सहायक अभियंता पीएचइडी उपखंड नाथद्वारा के पत्रांक 678 दिनांक 05.1.2024 के क्रम में ।

उपरोक्त विषयान्तर्गत संदर्भित पत्र के क्रम में निवेदन है की आप द्वारा चाही गयी सूचना इस कार्यालय से उपलब्ध के अनुसार निम्न है :-

Sr.no	Pipe material	Pipe dia	Length	Total length
1	AC pipe	80mm	5500 m	5500 m
2		100mm	6000 m	6000 m
3		125mm	3500 m	3500 m
4		200mm	2500 m	2500 m

क्रमांक /अअ/खंड/राज/2023-24/ 7727-25

प्रतिलिपि सूचनार्थ :-

- श्रीमान अधीक्षण अभियंता जन स्वा० अभि० विभाग वृत्त राजसमन्द
- सहायक अभियंता जन स्वा० अभि० विभाग उपखंड नाथद्वारा


 अधिशाषी अभियंता 05/01/24
 जन स्वा० अभि० विभाग
 खंड राजसमन्द
 दिनांक: 05/01/2024


 अधिशाषी अभियंता
 जन स्वा० अभि० विभाग
 खंड राजसमन्द

Annexure-3: Site Visit Photographs of Nathdwara Town

	
	
WTP Campus near Nand Samand	
	
	
	

A view of CWR construction near Ganesh Tekri	
 A photograph showing the construction of a concrete water reservoir (CWR) structure. The structure is a circular frame with multiple levels, surrounded by trees. A GPS overlay at the bottom indicates the location in Nathdwara, Rajasthan, India, with coordinates 24.925211° N and 73.812289° E, and a timestamp of 27/09/23 03:05 PM GMT +05:30.	 Two photographs showing the construction of a CWR. The left photo shows a circular concrete structure under construction with a spiral staircase. The right photo shows three people standing near the structure. Both photos have a GPS overlay with the same location and timestamp as the first photo.
Existing OHSR near Ganesh Tekri	Visit at Ganesh Tekri with A.En. & Engineer along with Safety Officer
 A photograph of an existing overhead storage reservoir (OHSR) structure. It is a large, cylindrical concrete tank with a spiral staircase on the exterior. A GPS overlay at the bottom indicates the location in Nathdwara, Rajasthan, India, with coordinates 24.925211° N and 73.812289° E, and a timestamp of 27/09/23 03:05 PM GMT +05:30.	 A photograph showing a visit to the Ganesh Tekri site. A group of people, including an A.En., an Engineer, and a Safety Officer, are standing near a large, cylindrical concrete structure. A GPS overlay at the bottom indicates the location in Nathdwara, Rajasthan, India, with coordinates 24.925211° N and 73.812289° E, and a timestamp of 27/09/23 03:13 PM GMT +05:30.
Existing CWR near Ganesh Tekri	
 A photograph showing the construction of a concrete water reservoir (CWR) structure. The structure is a circular frame with multiple levels, surrounded by trees. A GPS overlay at the bottom indicates the location in Nathdwara, Rajasthan, India, with coordinates 24.925211° N and 73.812289° E, and a timestamp of 27/09/23 03:13 PM GMT +05:30.	 A photograph showing the construction of a concrete water reservoir (CWR) structure. The structure is a circular frame with multiple levels, surrounded by trees. A GPS overlay at the bottom indicates the location in Nathdwara, Rajasthan, India, with coordinates 24.925211° N and 73.812289° E, and a timestamp of 27/09/23 03:13 PM GMT +05:30.
 A photograph showing the construction of a concrete water reservoir (CWR) structure. The structure is a circular frame with multiple levels, surrounded by trees. A GPS overlay at the bottom indicates the location in Nathdwara, Rajasthan, India, with coordinates 24.925211° N and 73.812289° E, and a timestamp of 27/09/23 03:14 PM GMT +05:30.	 A photograph showing the construction of a concrete water reservoir (CWR) structure. The structure is a circular frame with multiple levels, surrounded by trees. A GPS overlay at the bottom indicates the location in Nathdwara, Rajasthan, India, with coordinates 24.925211° N and 73.812289° E, and a timestamp of 27/09/23 03:14 PM GMT +05:30.



A view of water supply excavation & pipe laying work under progress



Existing OHSR at Nathuwas H/w



CRMC under construction at Nathuwas H/w





Proposed OHSR site at Nathuwas H/w

A view of Construction of OHSR at Bhandari Bawri

Conclusion:

Visited the Nathdwara town dated on 27.09.2023 and meet with the Official of PIU Superintending Engineer, Assistant Engineer along with ACM CMSC-II & Project Manager, KIPL (Contractor). During meeting detail discussion held regarding Asbestos Management Plan, purpose of visit & detail deliberation such as issues of Asbestos pipes occurring during excavation work of WS in Nathdwara Town. Pipes encountered during construction/ excavation need to be properly removed and disposed as per approved Asbestos Management Plan.

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

During discussion with Superintending Engineer, Assistant Engineer of PIU along with ACM CMSC-II & Project Manager-Contractor, detail deliberation such as issues of Asbestos pipes if occur during excavation of WS works in Nathdwara Town. In the event of encounter of any Asbestos Containing Materials (ACMs) during project activity, SOPs shall be followed till the final disposal at nearest TSDF site as given in Asbestos Management Plan.

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

During discussion with ACM-CMSC-II & visit, works of water supply distribution network is being laid in different location in the Town. During visit, works of laying of water supply distribution network laying under progress in the town. Work has started in WTP Campus, CWR, GLSR, OHSR, CRMC etc.

During visit, no asbestos containing materials (ACMs) were present/ occurred at different sites in Nathdwara Town. Civil works of such as CWR, GLSR, WTP, OHSR, CRMC and pipe laying under progress at different location. In view of any occurrence of ACM's during excavation in RUIDP Phase IV works in Nathdwara WS subproject, all the sites were visited. During visit found that CWR, GLSR and OHSR campus of PHED is located within populated area and is not suitable to temporary store the ACMs at this location if encountered during work. WTP is located near the water body of Nand Samand and not suitable to temporary stack the ACM's. In the event of any occurrence of ACMs during excavation works, adequate space is available for temporary stacking at OHSR campus at Nathuwas H/w of PHED as there are no habitation, school, temple near or in vicinity of this site.

In line of better management of ACM's if occurred during works, a training cum orientation programme was also conducted dated on 27th September 2023 in due consent with Superintending Engineer/Assistant Engineer of PIU along with CMSC-II Staff and Contractor safety personnel etc. During training, welcomed all the concerned person and brief about the Impact of Asbestos on human health, environment and their Management during works. During training, discussed in brief about the ACMs safe removal, handling, temporary stacking and disposal procedure. During removal all the rules and regulation will need to be strictly adhered as per Asbestos Management Plan (AMP).

Photographs of training/ orientation programme conducted as follows:

Attendance Sheet

TRAINING ON ASBESTOS MANAGEMENT

Project Town: Nattidwara, Dist. - Raj samand, Raj.
 Venue: KIPL Office
 Date: 27/09/23

S.No.	Name of Person	Gender	Designation	Contact No.	Signature
1	manish Arora	M	SE	803577650	
2	Deepti K. Chaudhary	M	AE	8547047091	
3	Damodar Singh	M	SCF	9366220973	
4	Ashutosh Kumar	M	Safety Engin	886100771	
5	Ravi YOGI	M	Engineer	9667806350	
6	Deepak Sharma	M	Engineer	6362297031	
7	Deendayal Yabai	M	Engineer	9785563537	
8	Suresh Chandel	M	Q/c Fr.	9772152526	
9	Hemlata Shrivastava	F	SOT.	8769683903	
10	Pratiksha Shrivastava	F	SOT.	9875787573	
11	Ghanshyam Heera	M	Engineer	8619532361	
12	Pratishtha Sunil	M	Engineer	8830833780	
13	Manoj Barmar	M	Engineer	8584954990	
14	Jagdish	M	Engineer	8075657116	
15	Anuraj Patil	M	AE/Engineer	9598489360	
16	Deepak Shrivastava	M	Store	7742008670	
17	Dilip Singh	M	Site En.	8699537987	


 Dilip Singh
 AE/PSO


 Asbestos Expert
 PMCB

Project Town: Nathdwara, Dist. - Raj samand, Raj.
Venue: KIPL office
Date: 27/09/23

[illegible]

Defunct
PRE-120

Chh
Asbestos Expert
fMBC

**Appendix-7: Photographs & Attendance sheets of Safeguard Orientations & Trainings
(During October 2023 to March 2024)
(by Environmental Safeguard Professionals of CMSC I & II)**

Photos and Attendance sheet of Training/Orientation at Barmer on dated 21.12.2023



Attendance Sheet of Training/Orientation at Barmer on dated 21.12.2023

Project Name:-(RSTDSP/BAR/WS-WW/01) Town - Barmer.					
Training Orientations Programme For Environment Health and Safety					
<u>BARMER</u> Attendance Sheet - RUDDP - PHASE - I					
Sr No	Name Of Participant	Designation Occupation	Mobile No.	Signature	Remarks
1	Sanjay Mathur	SE Sir		[Signature]	
2	Narsingh Chaudhary	Exec Sir		[Signature]	
3	Nat. Mr.	ACM / CMSC	986519989	[Signature]	
4	Anil Singh	ITL, CAP	9414057535	[Signature]	
5	SATISH RAM	ACM	98222387	[Signature]	
6	Dr. Mahendra Kumar	Env-Safeguard	950933224	[Signature]	
7	Devital	Support Eng.	7740603732	[Signature]	
8	Chiranjeev	Support Eng.	9350533025	[Signature]	
9	Shrawan Bhangra	Cap. Asst.	90007336	[Signature]	
10	Dhansha Ram	Support Eng.	8112218841	[Signature]	
11	Madan Lal	Site Eng.	7451049920	[Signature]	
12	Chaitanya - Jot	Site Eng.	9571126308	[Signature]	
13	Mahendra	Supervisor	982535505	[Signature]	
14	Harpreet Mehta	Helper	7831067464	[Signature]	
15	BITTU	HELPER	890530770	[Signature]	
16	Ram Supers	Helper	"	[Signature]	
17	Chaitanya	CMSC	8769936509	[Signature]	
18					
19					
20					
21					
22					

Photos and Attendance sheet of Training/Orientation at Balotra on dated 22.12.2023**Photos of Training Orientation at Contractor Camp Site at Barmer****Attendance Sheet of Training/Orientation at Balotra on dated 22.12.2023**

<u>Attendance Sheet</u>				
Date: - 22.12.2023				
Venue: - Contractor office Balotra				
Project: Balotra water supply and waste water project				
Object: - Safety Orientation Programme:				
S.N.	Name of Participant	Designation	Mobile No.	Signature
1.	Sanjay Mathur	S.E.		
2.	NATARAJAN .S	scm/cmsc	9260 99619	
3.	Ram Lal Choudhary	PDCC- Balotra	8854031000	
4.	Dr. Mahaveen P. Saini	Env. Safeguard Professional/consultant	3509337249	
5.	Jagan Ram	Support Eng.	9785842373	
6.	Omka Matha	Support Eng.	7368210298	
7.	Anand Kumar Gupta	Supp. Eng.	8218445267	
8.	Anand Singh Laxkar	Engineer	9636324920	
9.	Mohammed Yusuf	Subordinate SITE GRAB	8038213127	
10.	SANJEEV JAIN	Account & office man	9251142415	
11.	Rajendra Singh	Computer operator	9203202805	
12.	Kumaran Singh Bhat	ASD/line CAEP Balotra	9413503724	
13.	Chiranjeev Lal	Co-ordinator/CAEP JALPUR	6350533025	
14.	Anil Kumar Singh	Dy. TL, CAEP	9414057535	
15.	Ankit Mathur	Information officer	98994438165	
16.	शंकर लाल	9636614430		
17.	रतन लाल			
18.	धनराज			
19.	मालु उज्ज			
20.	लाडगरेड			
21.	विपक्ष			

Photos and Attendance sheet of Training/Orientation at Barmer on dated 28.02.2024

Photographs of Safety Training/Orientation of Barmer



Attendance Sheet of Training/Orientation at Barmer on dated 28.02.2024

NIPPON KOEI INDIA PVT. LTD. JUST FUTURE
Consulting Engineers

THEME ENGINEERING SERVICES PVT. LTD.

Contract Management and Supervision Consultancy-II (CMSC)
Rajasthan Urban Drinking Water, Sewerage and Sanitation Development Corporation Ltd., External Aided Project R.U.D.S.C.
Mail: info@nkei.co.in

Attendance sheet Date: 28/2/2024

PROJECT NAME: Rajasthan Secondary Towns Development Sector Project - Sewerage work
- Barmer

Locations - Barmer.

	NAME	Designation	Signature
1.	RTD	Labour	
2.	RTD	Labour	
3.	RTD	Labour	
4.	RTD	Labour	
5.	RTD	Labour	
6.	RTD	Labour	
7.	RTD	Labour	
8.	RTD	Labour	
9.	RTD	Labour	
10.	—	—	
11.	—	—	
12.	—	—	
13.	—	—	

Site Eng. → Two contractor site

① Madam.
② Rohita

Photos and Attendance sheet of Training/Orientation at Balotra on dated 29.02.2024**Photographs of Safety Training/Orientation of Balotra****Attendance Sheet of Training/Orientation at Balotra on dated 29.02.2024**

came of m.e.c. 2003 H/W

EHS ACTIVITY Attendance Sheet

Project Name: Rajasthan Secondary Towns Development Sector Project (RSTDSP) – Balotra
Sewerage subproject District -BALOTRA, Rajasthan

S.No	Name	Locality	Signature	Mobile No.
1	YOUSF	डेक	[Signature]	
2	Majumdar	डेक	[Signature]	
3	Maheveen	डेक	[Signature]	
4				
(5)	छोटू जी	डेक	छोटू जी	8955223580
(6)	रवीश्वर	डेक	रवीश्वर	9023700187
(7)	रतन जी	डेक	रतन	9033355239
(7)	धन्ना राम	डेक		
(8)	शंकर		शंकर	9770734412
(9)	हमराज		हमराज	
(10)	बाबू चन्द		बाबू चन्द	
(11)	सीमा		सीमा	



ATTENDANCE SHEET

Date: 20/02/2024

PROJECT NAME : Drainage Project Ratanam

S.NO	NAME	DESIGNATION	MOBILE NO.	SIGNATURE
1	Manoj	Helper	9588812331	[Signature]
2	pradeep	Helper		[Signature]
3	vishnu	"	9219360050	Biswajit Das
4	pawan	"	8076716128	Pawankumar
5	Dhanjay	"	7509376071	Gopikrishnan
6	Jagdish	Helper	6275517662	[Signature]
7	jithendran	"	6306088419	[Signature]
8	suresh	"		[Signature]
9	Ompalash	"	6372570675	[Signature]
10	Bilal Khan	Safety	9610265240	[Signature]
11	Upasana Kumar	Env. Saf. Joint Support Staff	8687429952	[Signature]

[Signature] Mr.
20/02/2024

Photographs of Site Safety Training



Construction Management & Supervision - Construction Contract - 01
 Construction Contract Sheet

Project Name: Barudi Venue: DITB Plant Date: 23/1/2024 Time: 1

Issuer: Laborer Safety Training

1. _____

2. _____

S.N.	Name	State	Province	Registration	Contract No.	Signature
1	<u>Barudi</u>	<u>✓</u>		<u>20/01/2024</u>	<u>20/01/2024</u>	<u>Barudi</u>
2	<u>Barudi</u>	<u>✓</u>		<u>20/01/2024</u>	<u>20/01/2024</u>	<u>Barudi</u>
3	<u>Barudi</u>	<u>✓</u>		<u>20/01/2024</u>	<u>20/01/2024</u>	<u>Barudi</u>
4	<u>Barudi</u>	<u>✓</u>		<u>20/01/2024</u>	<u>20/01/2024</u>	<u>Barudi</u>
5	<u>Barudi</u>	<u>✓</u>		<u>20/01/2024</u>	<u>20/01/2024</u>	<u>Barudi</u>
6	<u>Barudi</u>	<u>✓</u>		<u>20/01/2024</u>	<u>20/01/2024</u>	<u>Barudi</u>
7	<u>Barudi</u>	<u>✓</u>		<u>20/01/2024</u>	<u>20/01/2024</u>	<u>Barudi</u>
8	<u>Barudi</u>	<u>✓</u>		<u>20/01/2024</u>	<u>20/01/2024</u>	<u>Barudi</u>
9	<u>Barudi</u>	<u>✓</u>		<u>20/01/2024</u>	<u>20/01/2024</u>	<u>Barudi</u>
10	<u>Barudi</u>	<u>✓</u>		<u>20/01/2024</u>	<u>20/01/2024</u>	<u>Barudi</u>
11	<u>Barudi</u>	<u>✓</u>		<u>20/01/2024</u>	<u>20/01/2024</u>	<u>Barudi</u>
12	<u>Barudi</u>	<u>✓</u>		<u>20/01/2024</u>	<u>20/01/2024</u>	<u>Barudi</u>
13						
14						
15						

Photos and Attendance sheet of Training/Orientation at Bundi (Water Supply & Sewerage works)



Attendance Sheet of Training/Orientation at Bundi (Water Supply & Sewerage works)

M/S.KHILARI INFRASTRUCTURE PVT.LTD		CLIENT: - RUIDP		CONSULTANT: CMSC-I	
TRAINING ATTENDANCE					
Name of the project: <u>Water Supply Scheme ASTP at Bundi-22021/Bundi/2</u>					
Date of training: <u>7 March 2024</u>					
Venue: <u>At Bundi</u>					
Trainer's Name & Designation: <u>Vardan Srivastava (EHS Specialist)</u>					
Training Topic: <u>Safe work at height</u>					
Sub-contractor: _____					
SL	NAME	DESIGNATION	SIGNATURE		
1	Tamam Kumar	SA	Tamam Kumar		
2	Rohit Kumar	SA	Rohit Kumar		
3	Rohit Kumar	SA	Rohit Kumar		
4	Nandan Paswan	SA	Nandan Paswan		
5	Mukesh Kumar	SA	Mukesh Kumar		
6	Nikhil Kumar	SA	Nikhil Kumar		
7	Rajesh Kumar	SA	Rajesh Kumar		
8	Rohit Kumar	SA	Rohit Kumar		
9	Rohit Kumar	SA	Rohit Kumar		
10	Rohit Kumar	SA	Rohit Kumar		
11	Rohit Kumar	SA	Rohit Kumar		
12	Rohit Kumar	SA	Rohit Kumar		
13	Rohit Kumar	SA	Rohit Kumar		
14	Rohit Kumar	SA	Rohit Kumar		
15	Rohit Kumar	SA	Rohit Kumar		
Signature of Site in charge: _____			Signature of Trainer: _____		
I certify that the above listed persons have undergone the training.					



AT MAIN GINANI

[illegible]

Photographs of Safety Training/Orientation & Attendance Sheet, Bundi (Drainage)**Attendance Sheet of Training/Orientation at Bundi (Drainage)**

Construction Management & Supervision Consultancy CMSC-01
Consultation Sheet

RUIDP
A Scheme of Beneficiaries

Project town:- Bundi Venue:- STP Date:- 16.10.2024 Time:-

Issues:- 1. Labour Facility

2. _____

3. _____

4. _____

5. _____

6. _____

S.N.	Name	Sex		Designation	Contact No.	Signature
		Male	Female			
1	Jitendra	✓		labour	—	Jitendra
2	Devash	✓		—	9154872305	Devash
3	Manjesh	✓		—	9327193114	Manjesh
4	Premood	✓		—	—	Premood
5	Sandeep	✓		—	—	Sandeep
6	Pradeep	✓		—	—	Pradeep
7	Chaita Lal	✓		—	—	Chaita Lal
8	Dheep	✓		—	9065637094	Dheep
9	Vinayesh	✓		—	—	Vinayesh
10	Ajay	✓		—	—	Ajay
11	Vivek	✓		—	7564775217	Vivek
12	Arav	✓		—	—	Arav
13	Gaurav	✓		—	—	Gaurav
14	Shintu	✓		—	796605564	Shintu
15						

Photographs of Safety Training/Orientation & Attendance Sheet, Jodhpur (Drainage)**Attendance Sheet of Training/Orientation at Jodhpur (Drainage)**

Date: 14-3-2024
Drainage project

ACTIVITY ATTENDANCE SHEET
Site Specific Training program

Venue :- Changanassala
Time :- 12:30
Source :- NJV

Sr No.	Name	Position	Gender	Signature
①	इमाडल	लेबर	M	
②	मेहबुल	"	"	
③	रिजाबुल	"	"	
④	फ़ियेन	लेबर	M	
⑤	साबुद्दीन	"	"	
⑥	अनासुल	"	"	
⑦	सतर	"	"	
⑧	हुसैन	"	"	
⑨	गहिर	लेबर	M	गहिर
⑩	सिराजुल	"	"	सिराजुल
⑪	सबिर	"	"	सबिर
⑫	सहवाज	"	"	
⑬	इमन	"	"	
⑭	तेहिर	"	"	
⑮	ममकुर	"	"	ममकुर

Photographs of Safety Training/Orientation & Attendance Sheet, Jodhpur (Sewerage)



Attendance Sheet of Training/Orientation at Jodhpur (Sewerage)

Sr. No.	Name	Position	Gender	Signature
1	Mr. Jai Prakash Saini	safety officer	M	(Signature)
2	halkarni singh	site. engg.	M	(Signature)
3	mohit	labour	M	(Signature)
4	Pankaj	"	M	(Signature)
5	Pooja	"	M	(Signature)
6	Vinod	"	M	(Signature)
7	NONE	"	M	(Signature)
8	Birpal	"	M	(Signature)
9	Morpal	"	M	(Signature)
10	/	/	/	/
11	/	/	/	/
12	/	/	/	/
13	/	/	/	/
14	/	/	/	/
15	/	/	/	/
16	/	/	/	/
17	/	/	/	/
18	/	/	/	/
19	/	/	/	/
20	/	/	/	/

Appendix 8: EHS ACTIVITIES BY DIFFERENT CONTRACTORS DURING REPORTING PERIOD (October 2023 to March 2024)

EHS Activities by contractors at Jodhpur (Sewerage) Town during October 2023 to March 2024

Town: Jodhpur (Sewerage)

	
Photos of Contractor Workmen Training (CWT)	Site Specific Training
	
Medical Health Checkup	Site Specific Training
	
Mock Drill Training	Face Mask Distribution to workers at Site
	
Good Practice Barricading	Good Practice Excavation & trenching



Environmental Monitoring Report

PUBLIC

Semestral Report: October 2023 – March 2024
December 2024

India: Rajasthan Secondary Towns Development Sector Project-Additional Financing

Part 3 of 4: Appendix 8 (continued) and Appendices 9 - 11

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

Asian Development Bank

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 Good Practice House Keeping	 Good Practice PPEs
 Good Practice Electrical	 Good Practice Material handling
 Good Practice - Fire extinguisher at Site	 Good Practice Emergency No. Display
 Good Practice - Posters & Sign Board	 EHS Induction & COVID Precaution Training



PEP talk



Alert Training



First Aid Training



Induction training



Electrical Safety Training



Face Mask Distribution



Others Training (OT)



Training on Work at Height safety

EHS Activities by contractors at Nokha Town during October 2023 to March 2024**Town: Nokha****Contractor Workmen Training (CWT)****Site Specific Training (SST)****Medical Health Checkup of workers at site****Induction training****First Aid Training****Fire extinguisher Training****PEP talk****EHS Induction & COVID Precaution Training**



Others Training (OT) with SOT



EMERGENCY CONTACT NUMBER
MCPL-PRGL JV, Nokha(Bikaner)

NAME	MOB.NO.
1. SHYAM II (M.D)	9414147484
2. KANEK MATHUR(P.M)	9527963730
3. YOGENDRA SINGH(SAFTY OFFICER)	9413110954
4. RAM DEV(H R)	9052700994
5. Police	100
6. Fire Service	101
7. Ambulance	102

Good Practise - Fire extinguisher at Guest House & Display of Emergency no.



Good Practise Barricading at work site



Good Practise Excavation & trenching at site



Good Practise - Display of Sign Board



Good Practise Material handling



Good Practise House Keeping at work site



Good Practise workers working with PPEs

EHS Activities by contractors at Durgapur town during October 2023 to March 2024

Town: Durgapur	
	
Contractor Workmen Training (CWT)	Site Specific Training (SST)
	
PEP talk	Training on working at height & Safety
	
EHS Induction & COVID Awareness training	Training of material handling
	
Safety orientation and Health Check-up Camp	

	
Good Practice PPEs	Display of Project Board & Emergency No.
	
Good Practice House Keeping	Training on Road & Safety
	
Good Practice for Barricading	Good Practice Excavation & trenching

EHS Activities by contractors at Sagwara town during October 2023 to March 2024**Town: Sagwara**

 Sagwara, Rajasthan, India A-196, near Sagwara, Purnawas Colony, Shiv Colony, Sagwara, Rajasthan 314025, India Lat 23.662187° Long 74.008432° 14/02/24 09:13 AM GMT +05:30	 A-196, near Sagwara, Purnawas Colony, Shiv Colony, Sagwara, Rajasthan 314025, India Latitude 23.661866666666665° Longitude 74.00577° Local 09:55:31 AM GMT 09:25:31 AM Altitude 174 meters Monday, 12.02.2024
Contractor Workmen Training (CWT)	Site Specific Training
 Sagwara, Rajasthan, India M273+P66, Shiv Colony, Sagwara, Rajasthan 314025, India Lat 23.663828° Long 74.002018° 21/02/24 08:36 AM GMT +05:30	 Sagwara, Rajasthan, India A-125, Purnawas Colony, Hari On Colony, Sagwara, Rajasthan 314025, India Lat 23.667187° Long 74.00891° 14/02/24 08:47 AM GMT +05:30
Training on Road safety	Induction Training
 WINDTEL, STATIONER, NOIDA S44-SAA, 9th floor, WINDTEL, STATIONER, NOIDA 201005, India Lat 23.660317° Long 74.009306° 18/03/24 12:38 PM GMT +05:30	 Decimal DMS Latitude 23.66197 23°39'43" N Longitude 74.002664 74°0'9" E 30°C 2023-10-05(Thu) 17:17 86°F
Pep talk	EHS Induction & COVID Awareness Training
 Latitude 23.65887° Longitude 74.004804° Altitude 193.6 m Monday, 12.02.2024 10:52	 Sagwara, Rajasthan, India B-103, Purnawas Colony, B Block, Shiv Colony, Sagwara, Udaipura Mall, Purnawas 314025, India Lat 23.660000° Long 74.000000° 24/12/23 03:11 PM GMT +05:30
Alert Training	Training on Material Handling

**Safety orientation and Health check-up Camp****Good Practice: Workers working with PPEs****Good Practice: Excavation & Trenching****Good Practice: Safety barricading at site****Good Practice: Display of Emergency No. at Site****Good Practice: Availability of Mobile Toilet at work Site****Good Practice: Availability of Fire extinguisher at STP Site**

	
Good Practice: Display & Availability of first Aid Box at Site	Good Practice: Availability of fire Bucket at Site
	
Good Practice Display of Emergency Point	Good Practice: Display of Posters & Sign Board

EHS Activities by contractors at Sagwara town during October 2023 to March 2024**Town: Nathdwara****Contractor Workmen Training (CWT)****Site Specific Training (SST)****Excavation Safety Training****Induction Training****Electrical Safety Training****Work at Height & Safety Training****Safety Training****Safety Pledge to workers at site**

 Nathdwara, Rajasthan, India T, Nathdwara, Nathdwara, Rajasthan 313301, India Lat 24.929648° Long 73.831331° 08/02/24 10:06 AM GMT +05:30	
PPEs Safety Training to workers at site	Availability of Flag Man at site
 Nathdwara, Rajasthan, India T, Nathdwara, Nathdwara, Rajasthan 313301, India Lat 24.929648° Long 73.831331° 08/02/24 10:07 AM GMT +05:30	 Khamnora, Rajasthan, India WQ9J+PRL, Khamnora, Jodhpur RJ Road, Rajasthan 313301, India Lat 24.918884° Long 73.779652° 08/02/24 10:11 AM GMT +05:30
Emergency Preparation Safety Training	Training on Road Safety to workers at site
	 Rajmaram, RJ, India Rajmaram, RJ, India Lat 24.918884° Long 73.779652° 08/02/2024 10:04 AM GMT +05:30 Note: Captured by GPS Map Camera
First Aid Safety Training	Training on House keeping to workers at site
	 Nathdwara, RJ, India NH 162, Nathdwara, Nathdwara, 313301, RJ, India Lat 24.929648° Long 73.831331° 08/02/2024 09:51 AM GMT +05:30 Note: Captured by GPS Map Camera
LAA Safety Training to workers at site	Behavior base safety (BBS) Training



Good Practice: Use of flag during Road Diversion at Pipe laying site



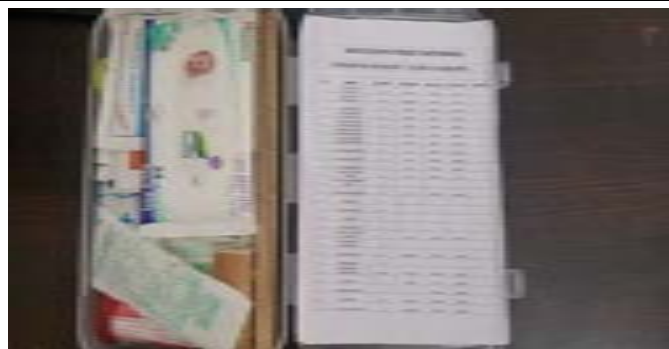
Good Practise: Hard Barricading at work site



Good Practise: workers working with PPEs at site



PPEs Safety Training to workers at site



Good Practise: Availibilityof First Aid Box



Good Practice: Material Stacking at site



Good practice Fire Fighter Name Displayat site



Good Practise Emergency No. Display



**Good Practise Project Information Board at CWR
Ganesh Tekri**



**Good Practise: Display of Project Information
Board at WTP site**



**Good Practise: Barricading & sign board at Pipe
laying Site**



Good Practise: Mass House Keeping



Good Practise: Hard Barricade with Sign Board



**Good Practise: Drinking Water Facility At WTP
Site**



**Good Practise: Use Of PPEs & Grinding Machine
with safe Guard**



**Good Practise: Display & Availability of Fire
Extinguisher and Fire Bucket**

EHS Activities by contractors at Nimbahera town during October 2023 to March 2024

Town: Nimbahera	
	
Contractor Workmen Training (CWT)	Site Specific Training (SST)
	
Medical Health Checkup of workers at site	Induction Training to workers at site
	
Pep talk training to workers at site	Alert Training to workers at site
	
Work at Height Safety Training to workers at site	Training on Road Safety to workers at site

 Nimbahera, Rajasthan, India Jaffarvdi, Old Bypass, Adarsh Colony, Shukhsadi, Nimbahera, Rajasthan 312601, India Lat 24.834702° Long 74.673451° 19/03/24 09:48 AM GMT +05:30	 Nimbahera, Rajasthan, India Jaffarvdi, Old Bypass, Adarsh Colony, Shukhsadi, Nimbahera, Rajasthan 312601, India Lat 24.834692° Long 74.673451° 21/03/24 09:17 AM GMT +05:30
First Aid Training	Training on Site Safety Rule
 Kriparam Khori, Rajasthan, India Unnamed Road, Kriparam Khori, Rajasthan 312620, India Lat 24.706671° Long 74.722876° 17/03/24 02:11 PM GMT +05:30	 Nimbahera, Rajasthan, India Jaffarvdi, Old Bypass, Adarsh Colony, Shukhsadi, Nimbahera, Rajasthan 312601, India Lat 24.834692° Long 74.673451° 26/03/24 09:08 AM GMT +05:30
Excavation Safety Training to workers at site	Electrical safety to workers at site
 Kriparam Khori, Rajasthan, India Unnamed Road, Kriparam Khori, Rajasthan 312620, India Lat 24.706643° Long 74.722832° 14/02/24 10:14 AM GMT +05:30	 Kriparam Khori, Rajasthan, India Unnamed Road, Kriparam Khori, Rajasthan 312620, India Lat 24.706497° Long 74.722793° 06/03/24 10:31 AM GMT +05:30
Training on (Personal Protective Equipments (PPEs) & Safety to workers at site	Safety Week Celebration
 Kriparam Khori, Rajasthan, India Unnamed Road, Kriparam Khori, Rajasthan 312620, India Lat 24.706671° Long 74.722876° 18/03/24 10:36 AM GMT +05:30	 Kriparam Khori, Rajasthan, India Unnamed Road, Kriparam Khori, Rajasthan 312620, India Lat 24.706643° Long 74.722832° 28/11/23 09:44 AM GMT +05:30
Quarterly Environmental Monitoring at site	EHS induction & COVID awareness Training

**Good Practice: Barricading****Good Practice: Excavation & Trenching****Good Practice: Safely site closing****Good Practice: Workers working with PPEs****Good Practice: Fire extinguisher & Bucket at site****Good Practice: Display of Emergency No.****Good Practice: Display Of Toll-free Number****Good Practice: Display of Safety Sign Board**

EHS Activities by contractors at Ratangarh (Drainage) Town during October 2023 to March 2024

Town Ratangarh (Drainage works)	
	
Contractor workmen training (CWT)	Site Specific Training (SST)
	
Electric Tools Training to workers at site	Fire Extinguisher Training to workers at site
	
First Aid Training to workers at site	Heat Stroke Training to workers at site
	
Training on Road Safety to workers at site	Training on Excavation & Safety to workers at site

 33.94°N, 73.10°E, Ratangarh, Rajasthan 331022, India Ratangarh Rajasthan India 2024-03-29(Fri) 11:18(am) 31°C 88°F	 33.94°N, 73.10°E, Ratangarh, Rajasthan 331022, India Ratangarh Rajasthan India 2024-03-29(Fri) 11:29(am) 33°C 91°F
Good Practice: Display of Project information Board at site	Good Practice: Barricading at site
	 33.94°N, 73.10°E, Ratangarh, Rajasthan 331022, India Ratangarh Rajasthan India 2024-03-30(Sat) 09:44(am) 31°C 88°F
Good Practice: Housekeeping at work site	Good Practice: Housekeeping at work site

EHS Activities by contractors at Jodhpur (Drainage) Town during October 2023 to March 2024

Town: Jodhpur (Drainage works)

 Sangariya, Rajasthan, India 80.4°N, 72.8°E, Sangariya, Rajasthan 342013, India Lat 26.181309° Long 72.993337° 08/12/23 12:31 PM GMT +05:30	
Contractor workmen training (CWT)	Site Specific Training (SST)
	
Health Awareness Meeting with workers at site	Medical Health Checkup of workers at site

	
Site Visited by Chief Engineer, PMU	Training on (Personal Protective Equipments (PPEs) & Safety to workers at site
	
Induction Training to workers at site	Training on Road Safety workers at site
	
Alert Training workers at site	Computer Training Program
	
Good Practice: Hard barricading at site	Good Practice: Material Handling

 Information Board with Reflector	 First Aid Facility at site
 Good Practice: Workers working with PPEs	 Good Practice: Drinking facility at site

EHS Activities by contractors at Balotra Town during October 2023 to March 2024

Town: Balotra

 Contractor Workmen Training (CWT)	 Site Specific Training (SST)
 Induction Training	 Height safety Training

**Good Practice Barricading****Photos of first kit Training****Good Practise - Fire extinguisher at site****Site Specific Training****Good Practice: Display of Project information Board****Site Specific SIGN BOARD****Safety Orientation Program****Medical Health Checkup**

EHS Activities by contractors at Barmer Town during October 2023 to March 2024

Town: Barmer	
	
PPE training at site	Site Specific Training
	
Good Practice Barricading at site	Good Practice Barricading at site
	
Site Specific Sign Board	Drinking Water Facility At Site

EHS Activities at Bharatpur (sewerage Sub Project Town) Town

 Bharatpur, Rajasthan, India 152, Shreeing Nagar, Tontpur, Bharatpur, Rajasthan 321001, India Lat 27.33047° Long 77.497121° 28/11/23 02:18 PM GMT +05:30	 Bharatpur, Rajasthan, India 01, Subhash Nagar, Bharatpur, Rajasthan 321001, India Lat 27.219422° Long 77.471199° 28/10/23 12:10 PM GMT +05:30
Excavation Safety Training	Road Safety Training
 Bharatpur, Rajasthan, India 236, Main Jheel, Ranjeet Nagar, Bharatpur, Rajasthan 321001, India Lat 27.33081° Long 77.439159° 29/01/24 03:24 PM GMT +05:30	 Bharatpur, Rajasthan, India 01, Subhash Nagar, Bharatpur, Rajasthan 321001, India Lat 27.224724° Long 77.475388° 28/12/23 01:07 PM GMT +05:30
Material Handling Training	Work At Height Training
 Bharatpur, Rajasthan, India 01, Subhash Nagar, Bharatpur, Rajasthan 321001, India Lat 27.224714° Long 77.475395° 26/12/23 01:08 PM GMT +05:30	 Bharatpur, Rajasthan, India Agarwal Nagar (Chunika), Near Agarwal Nagar Park, Subhash Nagar, Bharatpur, Rajasthan 321001, India Lat 27.230489° Long 77.487128° 28/10/23 02:18 PM GMT +05:30
EHS Induction & COVID awareness Training	Training About First Aid Box
 Bharatpur, Rajasthan, India 8990+P28, UAT Colony, Bharatpur, Rajasthan 321001, India Lat 27.224814° Long 77.478448° 30/11/23 06:48 PM GMT +05:30	 Bharatpur, Rajasthan, India 354, Shreeing Nagar, Tontpur, Bharatpur, Rajasthan 321001, India Lat 27.220191° Long 77.497108° 30/10/23 04:54 PM GMT +05:30
Good Practice: Worker working with PPEs	Good Practice: Project Information Board Display

	
Good Practice: Barricading	Good Practice: Availability of first aid kit at site
	
Woman Skill Development Program (Basic Computer Training)	Quarterly Environment Monitoring

EHS Activities at Bharatpur (City Beautification) Sub Project Town**EHS TRAINING On 15-10-2023 At Town Hall****EHS TRAINING On 25-10-2023 At Brijendra Bihari kund****EHS TRAINING on 7-12-2023 at Brijendra Bihari Kund****EHS TRAINING on 7-1-2024 at Brijendra Bihari Kund****EHS TRAINING on 7-2-2024 at Brijendra Bihari Kund****EHS TRAINING on 9-3-2024 at Brijendra Bihari Kund**

EHS Activities at Bundi (Drainage) Sub project town

	
Contractor Workmen Training (CWT)	Training on Housekeeping to workers at site
	
Training on Tripping hazard to workers at site	Training on lifting hazard to workers at site
	
COVID 19 Awareness and Distribution Face Mask	Training on Housekeeping to workers at site
	
Training on Electrical hazard to workers at site	Training on Manual Handling Safety to workers

**Training on Importance of PPE's and Unsafe Act to workers at site****Distribution of PPEs to workers at site****Tool Box Training (TBT) to workers at site****COVID 19 Awareness Training & Distribution Mask & Hand Gloves****Training on use of N. Vibrator****TBT to labour**

EHS Activities at Bundi (Water Supply & Sewerage) Sub Project Town

	
Contractor workmen Training (CWT)	Site Specific Training (SST)
	
Safety PPE's Training	Mock Drill Training
	
Training on Fire -Fighting Extinguisher	Training on Work at Height Safety
	
Safety PPE's Training	Hot work training

EHS Activities at Nawalgarh (Drainage) Sub Project Town

	
Manual Material Handling safety	Electrical Hand Tool Handling safety
	
Awareness of machinery safety Manual Handling training	Training of fire extinguisher
	
Site Safety Security Guards Training	Awareness about CPR Training

Appendix 9: SAFEGUARD TRAININGS CONDUCTED BY CONTRACTORS (October 2023 TO March 2024)

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
Town: Jodhpur (Sewerage & Drainage Works)					
1.	Induction Training	25/08/2023	Ghanta Ghar	Jai Prakash Saini	17
2.	Glucose Distribution to site Work	19/08/2023	Gujraws	Jai Prakash Saini	10
3.	Electrical safety Training	20/08/2023	Kabir Ashram	Jai Prakash Saini	12
4.	EHS alert	10/08/2023	Sardarpura	Jai Prakash Saini	17
5.	Road safety	22/07/2023	Padala bera	Jai Prakash Saini	12
6.	EHS alert	19/08/2023	SMCC CAMP	Jai Prakash Saini	55
7.	PPE 's safety Training	08/10/2023	Drainage plant	Saliesh Prajapat	43
8.	Road Safety Training	14/10/2023	Ashapura enclave	Jai paraksh sani	45
9.	Covid-19 Safety training	16/10/2023	Drainage plant	Saliesh prajapat	41
10.	General Health safety Training	20/10/2023	Drainage plant		32
11.	Thermal Scanning Activities	19/11/2023	SMCC CAMP	Jai Prakash Saini	55
12.	Induction Training	25/11/2023	Ghanta Ghar	Jai Prakash Saini	17
13.	Glucose Distribution to site Work	19/11/2023	Gujraws	Jai Prakash Saini	10
14.	Hand Sanitizer Activities	20/11/2023	Ramdev Nager	Jai Prakash Saini	11
15.	Disinfection Activity	12/11/2023	Mandor	Jai Prakash Saini	15
16.	Electrical safety Training	12/11/2023	Kabir Ashram	Jai Prakash Saini	12
17.	PPE 's safety Training	08/11/2023	Drainage plant	Saliesh Prajapat	13
18.	Road Safety Training	14/11/2023	Ashapura enclave	Jai paraksh sani	25
19.	Covid-19 Safety training	16/11/2023	Drainage plant	Saliesh prajapat	32
20.	General Health safety Training	20/11/2023	Drainage plant		32
21.	Thermal Scanning Activities	19/12/2023	soorsagar	Jai Prakash Saini	55
22.	Induction Training	25/12/2023	nandri	Jai Prakash Saini	12
23.	Glucose Distribution to site Work	19/11/2023	Gujraws	Jai Prakash Saini	15
24.	Hand Sanitizer Activities	05/12/2023	Ramdev Nager	Jai Prakash Saini	9
25.	Disinfection Activity	12/12/2023	Mandor	Jai Prakash Saini	14
26.	Electrical safety Training	20/12/2023	Soorsagar	Jai Prakash Saini	13
27.	Fire And Safety Training	02/12/2023	Mandore police Thana	Jai Prakash Saini	11
28.	Distribution of Face Mask	05/12/2023	Soorsagar	Jai Prakash Saini	22
29.	EHS alert	02/12/2023	Mandor	Jai Prakash Saini	11
30.	Road safety	02/12/2023	Padala bera	Jai Prakash Saini	10
31.	PPE 's safety Training	08/12/2023	Drainage plant	Saliesh Prajapat	13
32.	Road Safety Training	18/12/2023	Ashapura enclave	Jai paraksh sani	25
33.	Covid-19 Safety training	16/12/2023	Drainage plant	Saliesh prajapat	13
34.	General Health safety Training	27/12/2023	Drainage plant	Saliesh prajapat	14
35.	Thermal Scanning Activities	19/01/2024	soorsagar	Jai Prakash Saini	12
36.	Induction Training	25/01/2024	nandri	Jai Prakash Saini	12
37.	Glucose Distribution to site Work	19/01/2024	Gujraws	Jai Prakash Saini	07
38.	Hand Sanitizer Activities	05/01/2024	Ramdev Nager	Jai Prakash Saini	9
39.	Disinfection Activity	12/01/2024	Mandor	Jai Prakash Saini	06
40.	Electrical safety Training	20/01/2024	Soorsagar	Jai Prakash Saini	12
41.	Distribution of Face Mask	05/01/2024	Soorsagar	Jai Prakash Saini	12
42.	EHS alert	02/01/2024	Mandor	Jai Prakash Saini	11
43.	Road safety	02/01/2024	Padala bera	Jai Prakash Saini	10
44.	PPE 's safety Training	JAN 2024	Drainage plant	Saliesh Prajapat	13
45.	Road Safety Training	JAN 2024	Ashapura enclave	Jai paraksh sani	25
46.	Covid-19 Safety training	JAN 2024	Drainage plant	Saliesh prajapat	13
47.	General Health safety Training	JAN 2024	Drainage plant	Saliesh prajapat	14
48.	Thermal Scanning Activities	19/02/2024	soorsagar	Jai Prakash Saini	10
49.	Induction Training	25/02/2024	nandri	Jai Prakash Saini	13

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
50.	Glucose Distribution to site Work	19/02/2024	Gujraws	Jai Prakash Saini	11
51.	Hand Sanitizer Activities	05/02/2024	Ramdev Nager	Jai Prakash Saini	21
52.	Disinfection Activity	12/02/2024	Mandor	Jai Prakash Saini	12
53.	Electrical safety Training	20/02/2024	Central academy	Jai Prakash Saini	12
54.	Distribution of Face Mask	05/02/2024	Soorsagar	Jai Prakash Saini	10
55.	EHS alert	02/02/2024	Mandor	Jai Prakash Saini	12
56.	Road safety	02/02/2024	Balsamand	Jai Prakash Saini	11
57.	PPE 's safety Training	12/2/2024	At change 6000	Saliesh Prajapat	21
58.	Road Safety Training	18/2/2024	At ring road	Saliesh Prajapat	25
59.	Covid-19 Safety training	11/2/2024	Saliesh Prajapat	Saliesh prajapat	13
60.	Thermal Scanning Activities	19/03/2024	soorsagar	Jai Prakash Saini	12
61.	Induction Training	25/03/2024	Nandri	Jai Prakash Saini	12
62.	Glucose Distribution to site Work	19/03/2024	Gujraws	Jai Prakash Saini	07
63.	Hand Sanitizer Activities	05/03/2024	Ramdev Nager	Jai Prakash Saini	9
64.	Disinfection Activity	12/03/2024	Mandor	Jai Prakash Saini	06
65.	Electrical safety Training	20/03/2024	Central academy	Jai Prakash Saini	12
66.	Distribution of Face Mask	05/03/2024	Soorsagar	Jai Prakash Saini	12
67.	EHS alert	02/03/2024	Mandor	Jai Prakash Saini	11
68.	Road safety	02/03/2024	Balsam and	Jai Prakash Saini	10
69.	Road safety	14/3/2024	At change 6000	Saliesh Prajapat	21
70.	Labour meeting about covid-19	8/3/2024	At ring road	Saliesh Prajapat	25
71.	Electrical safety training	9/3/2024	Saliesh Prajapat	Saliesh prajapat	13
72.	FIRST AID TRAINING	16/3/2024	At rmc plant	Saliesh prajapat	25
73.	Labour meeting about safey	27/3/2024	At site	Saliesh prajapat	13
74.	Site Specific Training	25/3/2024	At site	Saliesh prajapat	25
Town: Nokha					
1.	CWT	03-10-2023	Zone-4,charkara STP	Yogendra Singh	30
2.	CWT	12-10-2023	Raisar	Yogendra Singh	15
3.	other-Internal	23-10-2023	Ranarao	Yogendra Singh	12
4.	CWT	26-10-2023	Ranarao, Raisar	Yogendra Singh	28
5.	EHS alert	02-10-2023	Zone-1, Charkara, Raisar	Yogendra Singh	45
6.	CWT	03-11-2023	Zone-4,charkara STP	Yogendra Singh	28
7.	CWT	07-11-2023	Raisar	Yogendra Singh	15
8.	other-Internal	23-11-2023	Ranarao	Yogendra Singh	09
9.	CWT	27-11-2023	Ranarao, Raisar	Yogendra Singh	25
10.	EHS alert	02-11-2023	Zone-1, Charkara, Raisar	Yogendra Singh	45
11.	CWT	01-12-2023	charkara STP	Yogendra Singh	25
12.	CWT	09-12-2023	Raisar	Yogendra Singh	07
13.	other-Internal	20-12-2023	Ranarao	Yogendra Singh	10
14.	CWT	28-12-2023	Zone-4, Raisar	Yogendra Singh	15
15.	EHS alert	13-12-2023	Zone-1, Charkara, Raisar	Yogendra Singh	40
16.	CWT	09-01-2024	charkara STP	Yogendra Singh	30
17.	CWT	12-01-2024	Raisar	Yogendra Singh	08
18.	other-Internal	19-01-2024	Ranarao	Yogendra Singh	12
19.	CWT	27-01-2024	Zone-4, Raisar	Yogendra Singh	16
20.	EHS alert	15-01-2024	Zone-9, Charkara, Raisar	Yogendra Singh	43
21.	CWT	07-02-2024	charkara STP	Yogendra Singh	20

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
22.	CWT	15-02-2024	Raisar	Yogendra Singh	08
23.	other-Internal	21-02-2024	Bagdi	Yogendra Singh	07
24.	CWT	26-02-2024	Zone-4, Raisar	Yogendra Singh	16
25.	EHS alert	10-02-2024	Zone-1, Charkara, Bagdi	Yogendra Singh	30
26.	CWT	05-03-2024	Charkara STP	Yogendra Singh	20
27.	CWT	09-03-2024	Raisar	Yogendra Singh	08
28.	other-Internal	20-03-2024	Bagdi	Yogendra Singh	05
29.	CWT	02-03-2024	Zone-4, Raisar	Yogendra Singh	16
30.	EHS alert	29-03-2024	Charkara, Bagdi	Yogendra Singh	30
Town: Dungarpur					
1.	PPE's safety Training	10-10-23	Adarsh Nagar	Pankaj Saini	15
2.	Road Safety Training	10-10-23	Nayi Basti	Pankaj Saini	11
3.	Induction training	10-10-23	Shastri Nagar	Pankaj Saini	15
4.	Training of Material Handling	10-10-23	Material Camp	Pankaj Saini	10
5.	First Aid Training	11-10-23	Material Camp	Pankaj Saini	5
6.	Alert Training	11-10-23	Material Camp	Pankaj Saini	5
7.	Site Specific Training	11-10-23	Material Camp	Pankaj Saini	10
8.	Work at Height	11-10-23	Material Camp	Pankaj Saini	15
9.	Mock Drill Training	12-09-23	Material Camp	Pankaj Saini	15
10.	PPE's safety Training	06-11-23	Adarsh Nagar	Pankaj Saini	15
11.	Road Safety Training	10-11-23	Near Sabela Talab	Pankaj Saini	15
12.	Induction training	21-11-23	Shastri Nagar	Pankaj Saini	15
13.	Training of Material Handling	07-11-23	Near Sabela Talab	Pankaj Saini	10
14.	First Aid Training	07-11-23	Material Camp	Pankaj Saini	5
15.	Alert Training	08-11-23	Material Camp	Pankaj Saini	5
16.	Site Specific Training	08-11-23	Material Camp	Pankaj Saini	8
17.	Mock Drill Training	10-11-23	Material Camp	Pankaj Saini	10
18.	PPE's safety Training	8-12-23	Khadia	Pankaj Saini	30
19.	Road Safety Training	8-12-23	Police Line	Pankaj Saini	20
20.	Induction training	8-12-23	Shastri Nagar	Pankaj Saini	12
21.	Training of Material Handling	8-12-23	Police Line	Pankaj Saini	8
22.	First Aid Training	10-12-23	Material Camp	Pankaj Saini	5
23.	Alert Training	08-11-23	Material Camp	Pankaj Saini	5
24.	Site Specific Training	8-12-23	Khadia	Pankaj Saini	8
25.	Mock Drill Training	10-12-23	Material Camp	Pankaj Saini	15
26.	PPE's safety Training	15-01-24	Khadia	Pankaj Saini	30
27.	Road Safety Training	16-01-24	Police Line	Pankaj Saini	20
28.	Induction training	18-01-24	Shastri Nagar	Pankaj Saini	12
29.	Training of Material Handling	21-01-24	Police Line	Pankaj Saini	8
30.	First Aid Training	23-01-24	Material Camp	Pankaj Saini	5
31.	Alert Training	24-01-24	Material Camp	Pankaj Saini	5
32.	Site Specific Training	25-01-24	Khadia	Pankaj Saini	8
33.	Mock Drill Training	26-01-24	Material Camp	Pankaj Saini	15
34.	PPE's safety Training	23-02-24	New Colony	Pankaj Saini	30
35.	Road Safety Training	23-02-24	New Colony	Pankaj Saini	20
36.	Induction training	23-02-24	New Colony	Pankaj Saini	12
37.	Training of Material Handling	23-02-24	Gandhi Ashram	Pankaj Saini	8
38.	First Aid Training	23-02-24	Material Camp	Pankaj Saini	5
39.	Alert Training	23-02-24	Material Camp	Pankaj Saini	5
40.	Site Specific Training	23-02-24	New Colony	Pankaj Saini	8
41.	Mock Drill Training	23-02-24	Material Camp	Pankaj Saini	15
42.	PPE's safety Training	04-03-24	Chamanpura	Pankaj Saini	15

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
43.	Road Safety Training	04-03-24	GaribNawaz colony	Pankaj Saini	20
44.	Induction training	04-03-24	New Colony	Pankaj Saini	12
45.	Training of Material Handling	04-03-24	Gandhi Ashram	Pankaj Saini	8
46.	First Aid Training	06-03-24	Camp	Pankaj Saini	5
47.	Alert Training	06-03-24	Camp	Pankaj Saini	5
48.	Site Specific Training	06-03-24	New Colony	Panka jSaini	8
49.	Mock Drill Training	06-03-24	Material Camp	Pankaj Saini	15
Town: Sagwara					
1.	PPE's safety Training	10/10/2023	Material Camp	MD Rajan khan	10
2.	Work at Height Training	10/10/2023	CRMC Building	MD Rajan khan	05
3.	Road Safety Training	18/10/2023	Patelwara	MD Rajan khan	10
4.	Covid-19 Safety training	15/09/2023	STP	MD Rajan khan	20
5.	Electrical safety training	10-10-23	Patelwara	MD Rajan khan	5
6.	Awareness and safety training	10-10-23	Patelwara	MD Rajan khan	10
7.	Mock Drill Training	13-10-23	A,BLOCK	MD Rajan khan	15
8.	PPE's safety Training	11/11/2023	Material Camp	MD Rajan khan	8
9.	Work at Height Training	12/11/2023	CRMC Building	MD Rajan khan	05
10.	Road Safety Training`	18/11/2023	Patel wara	MD Rajan khan	7
11.	Covid-19Safetytraining	15/11/2023	STP	MD Rajan khan	15
12.	Electrical safety training	10-11-23	Patel wara	MD Rajan khan	5
13.	Awareness and safety training	10-11-23	Patel wara	MD Rajan khan	8
14.	Mock Drill Training	13-11-23	A, BLOCK	MD Rajan khan	7
15.	PPE's safety Training	21/12/2023	Material Camp	MD Rajan khan	15
16.	Work at Height Training	28/12/2023	CRMC Building	MD Rajan khan	5
17.	Road safety Training	21/12/2023	Patel wara	MD Rajan khan	8
18.	Covid-19Safetytraining	10/12/2023	STP	MD Rajan khan	10
19.	Electrical safety training	8-12-23	Patel wara	MD Rajan khan	5
20.	Awareness and safety training	9-12-23	Patel wara	MD Rajan khan	8
21.	Mock Drill Training	13-11-23	A, BLOCK	MD Rajan khan	9
22.	Induction Training	22/12/23	Punarwas colony	MD Rajan khan	8
23.	Site Specific Training	22/12/23	Punarwas colony	MD Rajan khan	8
24.	PPE 's safety Training	21/01/2024	Naya bajar	MD Rajan khan	13
25.	Work at Height Training	10/01/2024	D block	MD Rajan khan	6
26.	Road safety Training`	08/01/2024	Hari om colony	MD Rajan khan	10
27.	Covid-19 Safety training	25/01/2024	STP	MD Rajan khan	15
28.	Electrical safety training	10-01-24	Patel wara	MD Rajan khan	5
29.	Awareness and safety training	12-01-24	Patel wara	MD Rajan khan	7
30.	Mock Drill Training	12-01-24	A, BLOCK	MD Rajan khan	10
31.	Induction Training	20/01/24	Punarwas colony	MD Rajan khan	12
32.	Site Specific Training	25/01/24	Punarwas colony	MD Rajan khan	15
33.	PPE 's safety Training	14/02/2024	Naya bazar	MD Rajan khan	20
34.	Work at Height Training	12/02/2024	Hari om colony	MD Rajan khan	10
35.	Road safety Training`	08/02/2024	Shilpi Mohalla	MD Rajan khan	12
36.	Covid-19 Safety training	15-02-2024	Shilpi Mohalla	MD Rajan khan	5
37.	Electrical safety training	12-02-2024	Shilpi Mohalla	MD Rajan khan	7
38.	Awareness and safety training	13-02-2024	A, BLOCK	MD Rajan khan	10
39.	Mock Drill Training	14/02/2024	Punarwas Colony	MD Rajan khan	12
40.	Induction Training	12/02/2024	Punarwas Colony	MD Rajan khan	12
41.	Site Specific Training	25/01/24	Punarwas Colony	MD Rajan khan	15
42.	PPE's safety Training	18/03/2024	Hari Om colony	MD Rajan khan	14
43.	Road safety Training`	14/03/2024	Hari om colony	MD Rajan khan	10
44.	Covid-19 Safety training	10/03/2024	Punarwas Colony	MD Rajan khan	11

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
45.	Electrical safety training	12-03-2024	Punarwas Colony	MD Rajan khan	7
46.	Awareness and safety training	17-03-2024	Punarwas Colony	MD Rajan khan	5
47.	Mock Drill Training	13-03-2024	A, BLOCK	MD Rajan khan	15
48.	Induction Training	18/03/2024	Punarwas Colony	MD Rajan khan	15
49.	Site Specific Training	14/03/2024	Punarwas Colony	MD Rajan khan	20
Town: Nathdwara					
1.	Mass Housekeeping Training	02/10/2023	WTP	Ashutosh Kumar	30
2.	Excavation Safety Training	08/10/2023	Teliyo Ka Talab	Ashutosh Kumar	08
3.	PPE'S Safety Training	15/10/2023	Bhandari Bawdi	Ashutosh Kumar	10
4.	First Aid Safety Training	22/10/2023	WTP	Ashutosh Kumar	25
5.	Work at height safety Training	27/10/2023	Bhandari Bawdi	Ashutosh Kumar	18
6.	Covid-19 Safety training	31/10/2023	Bhandari bawdi	Ashutosh Kumar	08
7.	PPE'S Safety Training	15/10/2023	Bhandari Bawdi	Ashutosh Kumar	10
8.	Excavation Safety Training	07/11/2023	WTP	Ashutosh Kumar	08
9.	Electrical Safety Training	21/11/2023	Srinath colony	Ashutosh kumar	08
10.	First Aid Safety Training	22/11/2023	WTP	Ashutosh Kumar	06
11.	House Keeping safety Training	27/11/2023	Ganesh Tekri	Ashutosh Kumar	10
12.	Emergency response plan Training	05/12/2023	WTP	Ashutosh Kumar	30
13.	Housekeeping and Material Stacking Training	11/12/2023	Ganesh Tekri	Ashutosh Kumar	08
14.	Scaffolding Training	15/12/2023	WTP	Ashutosh kumar	30
15.	Use of Ladder and Access and Exit Training	21/12/2023	WTP	Ashutosh Kumar	30
16.	PPE, s Safety Training	28/12/2023	Bhandari babdi	Ashutosh Kumar	10
17.	Emergency response plan Training	03/01/2024	1500KL Nathuwas	Ashutosh Kumar	
18.	Housekeeping and Material Stacking Training	08/01/2024	WTP	Ashutosh Kumar	
19.	Scaffolding Training	17/01/2024	300KL Bhandari Babdi	Ashutosh kumar	
	Use of Ladder and Access and Exit Training	22/01/2024	WTP	Ashutosh Kumar	
20.	PPE, s Safety Training	30/01/2024	WTP	Ashutosh Kumar	
21.	Emergency response plan Training	04/02/2024	1500KL OSHR Nathuwas	Ashutosh Kumar	12
22.	Housekeeping and Material Stacking Training	09/02/2024	WTP	Ashutosh Kumar	22
23.	Scaffolding Training	16/02/2024	300KL Bhandari Babdi	Ashutosh kumar	10
24.	Use of Ladder and Access and Exit Training	24/02/2024	1500KL Nathuwas	Ashutosh Kumar	15
25.	PPE, s Safety Training	26/02/2024	300KL OSHR Bhandari Bawri	Ashutosh Kumar	10
26.	Electrical Safety Training	29/02/2024	WTP	Ashutosh kumar	20
27.	Snake Bite Safety Training	02/03/2024	WTP	Ashutosh Kumar	30
28.	Work at Height Safety Training	10/03/2024	300 KL OSHR Bhandari	Ashutosh Kumar	08
29.	Scaffolding Training	18/03/2024	1500 KL OSHR Nathuwas	Ashutosh kumar	12
30.	Use of Ladder and Access and Exit Training	22/02/2024	WTP	Ashutosh Kumar	25
Town: Nimbahera					
1.	PPE 's safety Training	23/09/2023	B.R. COLLEGE	Dev kishan	10
2.	FIRE safety Training	13/09/2023	WTP	Dev kishan	15
3.	Road safety Safety Training`	12/09/2023	RSEB COLONY	Dev kishan	05

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
4.	Covid-19 Safety training	05/09/2023	B.R. COLLEGE	Dev kishan	10
5.	PPE 's safety Training	23/11/2023	B.R. COLLEGE	Dev kishan	10
6.	FIRE safety Training	13/11/2023	WTP	Dev kishan	15
7.	Road safety Safety Training`	12/11/2023	RSEB COLONY	Dev kishan	05
8.	Covid-19 Safety training	05/11/2023	B.R. COLLEGE	Dev kishan	10
9.	PPE 's safety Training	04/12/2023	,WTP	Dev kishan	15
10.	PPE 's safety Training	26/12/2023	B.R. COLLEGE	Dev kishan	15
11.	Road safety Safety Training`	04/12/2023	ZONE -9	Dev kishan	05
12.	Covid-19 Safety training	27/12/2023	B.R. COLLEGE,ZONE 6	Dev kishan	20
13.	PPE 's safety Training	03/1/2024	WTP	Dev kishan	30
14.	PPE 's safety Training	04/1/2024	B.R. COLLEGE	Dev kishan	20
15.	Road safety Safety Training`	13/1/2024	ZONE -7	Dev kishan	08
16.	Covid-19 Safety training	27/12/2024	B.R. COLLEGE,ZONE 6	Dev kishan	25
17.	PPE 's safety Training	03/2/2024	B.R. COLLEGE	Dev kishan	20
18.	PPE 's safety Training	14/2/2024	WTP	Dev kishan	20
19.	Road safety Safety Training`	15/2/2024	ZONE -9	Dev kishan	04
20.	Covid-19 Safety training	03/2/2024	B.R. COLLEGE,ZONE 6	Dev kishan	20
Town: Ratangarh					
1.	PPE 's safety Training	17/12/2023	site	Bilal	12
2.	EHS alert	28/12/2023	At site	Bilal	10
3.	Road safety	29/12/2023	At site	Bilal	8
4.	PPE 's safety Training	JAN2024	site	Bilal	23
5.	EHS alert	JAN2024	At site	Bilal	14
6.	Road safety	JAN2024	At site	Bilal	23
7.	PPE 's safety Training	Feb 2024	site	Bilal	23
8.	EHS alert	Feb 2024	At site	Bilal	14
9.	Road safety	Feb 2024	At site	Bilal	23
10.	PPE SAFETY TRAINING	March 2024	At Site	Abey Arraham	30
11.	EHS ALERT	March 2024	At Site	Abey Arraham	10
12.	Road Safety	March 2024	At Site	Abey Arraham	4
13.	First Aid Training	March 2024	At Site	Abey Arraham	10
14.	Fire Extinguisher Training	March 2024	At Site	Abey Arraham	
Town: Balotra					
1.	Behaviour Based Safety Training	14/1/2024	SITE	Amar Singh	05
2.	PPE 's safety Training	29/2/2024	CRMC LUNI	Arvind	4
3.	PPE 's safety Training	29/2/2024	CRMC LUNI	Arvind	3
4.	Road safety Safety Training`	29/2/2024	CRMC LUNI	Arvind	6
5.	Covid-19 Safety training	29/2/2024	CRMC LUNI	Arvind	8
6.	PPE 's safety Training	15/03/2024	Samadary HW	Dungar singh Bhati	10
7.	PPE 's safety Training	18/03/2024	Luni River HW	Dungar singh Bhati	15
8.	Road safety Training	21/03/2024	Labour	Dungar singh Bhati	04
Town: Barmer					
1.	Behaviour Based Safety Training	14/2/2024	SITE	Amar Singh	05
2.	PPE 's safety Training	28/2/2024	Neheru road	Rohitash	6
3.	PPE 's safety Training	28//2/2024	Kalam ashram	Rohitash	5
4.	Road safety Safety Training`	28//2/2024	Kalam ashram	Rohitash	6
5.	Covid-19 Safety training	28//2/2024	Labao cam	Rohitash	4

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
6.	PPE 's safety Training	15/03/2024	KALAM ASHARAM	Dungar singh Bhati	10
7.	PPE 's safety Training	18/03/2024	Sharam Nagar Nehru Road	Dungar singh Bhati	15
8.	Road safety Safety Training	21/03/2024	CRMC Building Mahaveer Nagar	Dungar singh Bhati	04
Town: Bharatpur (Sewerage Works)					
1.	Excavation Safety Training	11/10/2023	Zone - 01	Shyam pal Singh	07
2.	Road Safety Training	25/10/2023	Zone - 04	Shyam pal Singh	08
3.	Electrical Tool Safety	28/11/2023	Zone - 01	Shyam pal Singh	10
4.	Work At Height Training	30/11/2023	SPS -04	Shyam pal Singh	04
5.	Excavation Safety Training	19/12/2023	SPS - 03	Shyam pal Singh	15
6.	Work At Height Training	26/12/2023	SPS -04	Shyam pal Singh	19
7.	Material Handling Training	30/12/2023	Zone - 03	Shyam pal Singh	05
8.	Excavation Safety Training	25/01/2024	Zone - 03	Shyam pal Singh	04
9.	Work At Height Training	27/01/2024	SPS -04	Shyam pal Singh	04
10.	Material Handling Training	29/01/2024	Zone - 04	Shyam pal Singh	04
11.	Excavation Safety Training	25/01/2024	Zone - 04	Shyam pal Singh	04
Town: Bundi (Water Supply & Sewerage Works)					
1.	Safety PPe Training	04/10/2023	STP, Ramganj Bala Ji	Rahul Saini	17
2.	Safety Harness Training	07/10/2023	STP, Ramganj Bala Ji	Rahul Saini	15
3.	First -aid Training	10/10/2023	STP, Ramganj Bala Ji	Rahul Saini	22
4.	Covid-19 Awareness	13/10/2023	STP, Ramganj Bala Ji	Rahul Saini	16
5.	Hot work Training	25/10/2023	STP, Ramganj Bala Ji	Rahul Saini	13
6.	Height work Training	01/11/2023	STP, Ramganj Bala Ji	Rahul Saini	16
7.	Electrical Safety Training	06/11/23	STP, Ramganj Bala Ji	Rahul Saini	13
8.	First -aid Training	21/11/2023	STP, Ramganj Bala Ji	Rahul Saini	12
9.	Safety PPe's Training	23/11/2023	STP, Ramganj Bala Ji	Rahul Saini	18
10.	Covid-19 Awareness	18/11/2023	STP, Ramganj Bala Ji	Rahul Saini	12
11.	Hot work Training	26/11/2023	STP, Ramganj Bala Ji	Rahul Saini	11
12.	Electrical Safety Training	08/12/2023	STP, Ramganj Bala Ji	Rahul Saini	13
13.	Safety PPe's Training	13/12/2023	STP, Ramganj Bala Ji	Rahul Saini	18
14.	Fire Extinguisher Training	15/12/23	STP, Ramganj Bala Ji	Rahul Saini	14
15.	Covid-19 Awareness	20/12/2023	STP, Ramganj Bala Ji	Rahul Saini	15
16.	First -Aid Training	25/12/2023	STP, Ramganj Bala Ji	Rahul Saini	19
17.	Safety Harness Training	29/12/2023	STP, Ramganj Bala Ji	Rahul Saini	17
18.	First-aid training	02/01/2024	STP, Ramganj Bala Ji	Rahul Saini	19
19.	Hot work Training	08/01/2024	STP, Ramganj Bala Ji	Rahul Saini	12
20.	Safety Harness Training	13/01/2024	STP, Ramganj Bala Ji	Rahul Saini	20
21.	Covid-19 Awareness Training	19/01/2024	STP, Ramganj Bala Ji	Rahul Saini	09
22.	Electrical Safety Training	23/01/2024	STP, Ramganj Bala Ji	Rahul Saini	13
23.	Safety PPe's Training	29/01/2024	STP, Ramganj Bala Ji	Rahul Saini	11
24.	First-aid training	05/02/2024	STP, Ramganj Bala Ji	Rahul Saini	21
25.	Hot work Training	13/02/2024	STP, Ramganj Bala Ji	Rahul Saini	11
26.	Safety Harness Training	17/2/2024	STP, Ramganj Bala Ji	Rahul Saini	22
27.	Covid-19 Awareness Training	22/02/2024	STP, Ramganj Bala Ji	Rahul Saini	11
28.	Safety PPe's Training	28/02/2024	STP, Ramganj Bala Ji	Rahul Saini	16
29.	Safety PPe's Training	02/03/2024	STP, Ramganj Bala Ji	Rahul Saini	15
30.	Covid-19 Awareness Training	09/03/2024	STP, Ramganj Bala Ji	Rahul Saini	13
31.	Safety Harness Training	14/03/2024	STP, Ramganj Bala Ji	Rahul Saini	21
32.	Fire Extinguisher Training	22/03/2024	STP, Ramganj Bala Ji	Rahul Saini	12

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
33.	First-aid training	29/03/2024	STP, Ramganj Bala Ji	Rahul Saini	14
Town: Bundi (Drainage Works)					
1.	Awareness about lifting	18-11-2023	At Site, Bundi	Usman Gani	8
2.	House keeping	18-11-2023	At Site, Bundi	Usman Gani	10
3.	Awareness about tripping hazard	17-11-2023	At Site, Bundi	Usman Gani	24
4.	Awareness about lifting	23-12-2023	Bundi	Usman Gani	20
5.	House keeping	18-12-2023	Bundi	Usman Gani	10
6.	Awareness about Electrical hazard	16-12-2023	Bundi	Usman Gani	24
7.	COVID 19 awareness	25/01/2024	Bundi	Abdul Jabbar	12
8.	Housekeeping	23/01/2024	Bundi	Abdul Jabbar	10
9.	Unsafe act and Wear proper PPE	15/01/2024	Bundi	Abdul Jabbar	16
10.	Manual Handling	19/02/2024	Bundi	Abdul Jabbar	10
11.	TBT meeting	23/02/2024	Bundi	Abdul Jabbar	20
12.	PPE Distribute	23/02/2024	Bundi	Abdul Jabbar	8
Town: Nawalgarh					
1.	Power tools safety	23-10-2023	Bundi	Hari Mohan	23
2.	Manual Material handling	25-10-2023	Bundi	Hari Mohan	17
3.	Awareness training to Security Guard	16-10-2023	Bundi	Hari Mohan	02
4.	Awareness of machinery safety	25-01-2024	Nawalgarh	Usman Gani	5
5.	Manual Handling training	25-01-2024	Nawalgarh	Usman Gani	5
6.	Training of fire extinguisher	20-03-2024	Nawalgarh	Usman Gani	3
7.	Awareness about CPR Training	25-03-2024	Nawalgarh	Usman Gani	3
Town: Bharatpur (City Beautification works)					
1.	EHS Activity	15-10-2023	TownHall, Bharatpur	Yogendra Kumar	33
2.	EHS Activity	25-10-2023	Brijendra Bihari Kund, Bharatpur	Manish Katara	23
3.	Importance of PPE's	7-02-2024	Brijendra bihari kund, Bharatpur	Yogendra	All Staff
4.	EHS TRAINING This Month	09-02-2024	Brijendra bihari kund, Bharatpur	Yogendra	All Staff

Appendix 10: Prevention and Control Measures Adopted in RSTDSP – Additional Financing (Awareness, Prevention and Control) Compliance by Towns during October 2023 to March 2024

S. No.	Activities done	Date	Location	No. of Participants
Jodhpur Town				
1.	Thermal screening of workers at the site	(October 2023) Regular at site	All Site	20
2.	Hand Sanitization activity of workers at the site	(October 2023) Regular at site	All Site	19
3.	Mask Distribution	(October 2023) Regular at site	All Site	All worker
4.	Office & Labor Camp Disinfection Activity	(October 2023) Regular at site	All Site	-
5.	COVID-19 Awareness & Precautions Training for workmen and staff	(October 2023) Regular at site	All Site	114
6.	Display of Signage for Covid-19 Awareness	(October 2023) Regular at site	All Site	33
7.	Health Check-up Camp	19/08/2023	Labour Camp	70
8.	Thermal screening of workers at the site	(November 2023) Regular at site	All Site	21
9.	Hand Sanitization activity of workers at the site	(November 2023) Regular at site	All Site	15
10.	Mask Distribution	(November 2023) Regular at site	All Site	All worker
11.	Office & Labor Camp Disinfection Activity	(November 2023) Regular at site	All Site	All worker
12.	COVID-19 Awareness & Precautions Training for workmen and staff	(November 2023) Regular at site	All Site	40
13.	Display of Signage for Covid-19 Awareness	(November 2023) Regular at site	All Site	35
14.	Health Check-up Camp	19/08/2023	Labour Camp	70
15.	Thermal screening of workers at the site	(December 2023) Regular at site	All Site	All worker
16.	Hand Sanitization activity of workers at the site	(December 2023) Regular at site	All Site	All worker
17.	Mask Distribution	(December 2023) Regular at site	All Site	All worker
18.	Office & Labor Camp Disinfection Activity	(December 2023) Regular at site	All Site	All worker
19.	COVID-19 Awareness & Precautions Training for workmen and staff	(December 2023) Regular at site	All Site	All worker
20.	Display of Signage for Covid-19 Awareness	(December 2023) Regular at site	All Site	All worker
21.	Thermal screening of workers at the site	(January 2024) Regular at site	All Site	All worker

S. No.	Activities done	Date	Location	No. of Participants
22.	Hand Sanitization activity of workers at the site	(January 2024) Regular at site	All Site	All worker
23.	Mask Distribution	(January 2024) Regular at site	All Site	All worker
24.	Office & Labor Camp Disinfection Activity	(January 2024) Regular at site	All Site	All worker
25.	COVID-19 Awareness & Precautions Training for workmen and staff	(January 2024) Regular at site	All Site	All worker
26.	Display of Signage for Covid-19 Awareness	(January 2024) Regular at site	All Site	All worker
27.	Thermal screening of workers at the site	(February 2024) Regular at site	All Site	All worker
28.	Hand Sanitization activity of workers at the site	(February 2024) Regular at site	All Site	All worker
29.	Mask Distribution	(February 2024) Regular at site	All Site	All worker
30.	Office & Labor Camp Disinfection Activity	(February 2024) Regular at site	All Site	All worker
31.	COVID-19 Awareness & Precautions Training for workmen and staff	(February 2024) Regular at site	All Site	All worker
32.	Display of Signage for Covid-19 Awareness	(February 2024) Regular at site	All Site	All worker
33.	Thermal screening of workers at the site	(March 2024) Weekly	All Site	75
34.	Hand Sanitization activity of workers at the site	(March 2024) Daily	All site	75
35.	Mask Distribution	18-03-2024	Charkara	20
36.	Office & Labor Camp Disinfection Activity	(March 2024) Daily	Office	20
37.	COVID-19 Awareness & Precautions Training for workmen and staff	22-03-2024	Raisar, Charkara	30
38.	Display of Signage for Covid-19 Awareness	(March 2024) Daily	All prominent locations	
39.	Health Check-up Camp	21.03.23024	Charkara	25
40.	Site medical visit	9.03.2024 to 29.03.2024	Office	15
Nokha Town				
1.	Thermal screening of workers at the site	Weekly	All Site	75
2.	Hand Sanitization activity of workers at the site	Daily	All site	75
3.	Mask Distribution	10-10-2023	Zone- 4,Ranarao	15
4.	Office & Labor Camp Disinfection Activity	Daily	Office	35
5.	COVID-19 Awareness & Precautions Training for workmen and staff	21-10-2023	Zone-4 Raisar, Charkara	35
6.	Display of Signage for Covid-19 Awareness	Daily	All prominent locations	
7.	Health Check-up Camp	23-10-2023	Raisar, Ranarao, charkara	35
8.	Site medical visit	09.10.2023 to 27.10.2023	Office	

S. No.	Activities done	Date	Location	No. of Participants
9.	Thermal screening of workers at the site	Weekly	All Site	48
10.	Hand Sanitization activity of workers at the site	Daily	All site	48
11.	Mask Distribution	10-11-2023	ZONE- 1,AEn campus	12
12.	Office & Labor Camp Disinfection Activity	Daily	Office	35
13.	COVID-19 Awareness & Precautions Training for workmen and staff	21-11-2023	Raisar, Charkara	25
14.	Display of Signage for Covid-19 Awareness	Daily	All prominent locations	
15.	Health Check-up Camp	29-11-2023	Raisar, Ranarao, charkara	45
16.	Site medical visit	08.11.2023 to 27.11.2023	Office	
17.	Thermal screening of workers at the site	Weekly	All Site	65
18.	Hand Sanitization activity of workers at the site	Daily	All site	65
19.	Mask Distribution	12-12-2023	Charkara	25
20.	Office & Labor Camp Disinfection Activity	Daily	Office	25
21.	COVID-19 Awareness & Precautions Training for workmen and staff	20-12-2023	Ranarao, Charkara	35
22.	Display of Signage for Covid-19 Awareness	Daily	All prominent locations	
23.	Health Check-up Camp	25-12-2023	charkara	25
24.	Site medical visit	09.12.2023 to 28.12.2023	Office	
25.	Thermal screening of workers at the site	Weekly	All Site	85
26.	Hand Sanitization activity of workers at the site	Daily	All site	85
27.	Mask Distribution	11-01-2024	Charkara	20
28.	Office & Labor Camp Disinfection Activity	Daily	Office	45
29.	COVID-19 Awareness & Precautions Training for workmen and staff	19-01-2024	Raisar, Charkara	35
30.	Display of Signage for Covid-19 Awareness	Daily	All prominent locations	
31.	Health Check-up Camp	24-01-2024	charkara	25
32.	Site medical visit	09.01.2024 to 30.01.2024	Office	
33.	Thermal screening of workers at the site	Weekly	All Site	
34.	Hand Sanitization activity of workers at the site	Daily	All site	
35.	Mask Distribution	15-02-2024	Bagdi	
36.	Office & Labor Camp Disinfection Activity	Daily	Office	
37.	COVID-19 Awareness & Precautions Training for workmen and staff	20-02-2024	Bagdi, Charkara	
38.	Display of Signage for Covid-19 Awareness	Daily	All prominent locations	
39.	Site medical visit	10.02.2024 to 26.02.2024	Office	
40.	Thermal screening of workers at the site	Weekly	All Site	75
41.	Hand Sanitization activity of workers at the site	Daily	All site	75
42.	Mask Distribution	18-03-2024	Charkara	20

S. No.	Activities done	Date	Location	No. of Participants
43.	Office & Labor Camp Disinfection Activity	Daily	Office	20
44.	COVID-19 Awareness & Precautions Training for workmen and staff	22-03-2024	Raisar, Charkara	30
45.	Display of Signage for Covid-19 Awareness	Daily	All prominent locations	
46.	Health Check-up Camp	21.03.23024	Charkara	25
47.	Site medical visit	9.03.2024 to 29.03.2024	Office	15
Dungarpur Town				
1.	Thermal screening of workersat the site	09-10-23	Material Camp	35
2.	Hand Sanitization activity ofworkers at the site	Daily Basis	Shastri Colony	35
3.	Mask Distribution	12-10-23	Material Camp	35
4.	Office & Labor CampDisinfection Activity	Daily Basis	Labour Camp	20
5.	COVID-19 Awareness & Precautions Training forworkmen and staff	10-10-23	Shastri Colony	15
6.	Display of Signage for Covid-19 Awareness	13-10-23	Labour Camp	20
7.	Thermal screening of workersat the site	06-11-23	Material Camp	35
8.	Hand Sanitization activity ofworkers at the site	Daily Basis	Shastri Colony	35
9.	Mask Distribution	08-11-23	Material Camp	35
10.	Office & Labor CampDisinfection Activity	Daily Basis	Labour Camp	20
11.	COVID-19 Awareness & Precautions Training forworkmen and staff	21-11-23	Shastri Colony	15
12.	Display of Signage for Covid-19 Awareness	10-11-23	Labour Camp	20
13.	Thermal screening of workersat the site	8-12-23	Khadia	78
14.	Hand Sanitization activity ofworkers at the site	Daily Basis	Khadia	78
15.	Mask Distribution	8-12-23	Khadia	78
16.	Office & Labor CampDisinfection Activity	Daily Basis	Khadia	78
17.	COVID-19 Awareness & Precautions Training forworkmen and staff	8-12-23	Khadia	105
18.	Display of Signage for Covid-19 Awareness	8-12-23	Khadia	78
19.	Thermal screening of workersat the site	20-01-224	Khadia	37
20.	Hand Sanitization activity ofworkers at the site	Daily Basis	Khadia	73
21.	Mask Distribution	20-01-24	Khadia	37
22.	Office & Labor CampDisinfection Activity	Daily Basis	Khadia	37
23.	COVID-19 Awareness & Precautions Training forworkmen and staff	20-01-24	Khadia	105
24.	Display of Signage for Covid-19 Awareness	20-01-24	Khadia	32
25.	Health Check-up Camp	31-01-24	Store yard	52
26.	Thermal screening of workers at the site	23-02-2024	New colony	38
27.	Hand Sanitization activity of workers at the site	Daily Basis	New Colony	51

S. No.	Activities done	Date	Location	No. of Participants
28.	Mask Distribution	23-02-2024	New colony	31
29.	Office & Labor Camp Disinfection Activity	Daily Basis	New Colony	52
30.	COVID-19 Awareness & Precautions Training for workmen and staff	23-02-2024	New Colony	101
31.	Display of Signage for Covid-19 Awareness	23-02-2024	Gandhi Aashram	53
32.	Thermal screening of workers at the site	16-03-2024	khadia	38
33.	Hand Sanitization activity of workers at the site	Daily Basis	khadia	51
34.	Mask Distribution	16-03-2024	khadia	31
35.	Office & Labor Camp Disinfection Activity	Daily Basis	New Colony	52
36.	COVID-19 Awareness & Precautions Training for workmen and staff	16-03-2024	New Colony	101
37.	Display of Signage for Covid-19 Awareness	26-03-2024	Sati	53
Sagwara Town				
1.	Thermal screening of workers at the site	One week	Patelwara	ALL
2.	Hand Sanitization activity of workers at the site	Daily Basis	Patelwara	ALL
3.	Mask Distribution	09/10/2023	A Block	50
4.	Office & Labor Camp Disinfection Activity	Daily Basis	Office and Labour camp	15
5.	COVID-19 Awareness & Precautions Training for workmen and staff	10/10/2023	Patelwara	15
6.	Display of Signage for Covid-19 Awareness	10/10/2023	Material Camp	52
7.	Thermal screening of workers at the site	One week	Patelwara	ALL
8.	Hand Sanitization activity of workers at the site	Daily Basis	Patelwara	ALL
9.	Mask Distribution	09/10/2023	A,Block	50
10.	Office & Labor Camp Disinfection Activity	Daily Basis	Office and Labour camp	15
11.	COVID-19 Awareness & Precautions Training for workmen and staff	10/10/2023	Patelwara	15
12.	Display of Signage for Covid-19 Awareness	10/10/2023	Material Camp	52
13.	Thermal screening of workers at the site	One week	Patelwara	ALL
14.	Hand Sanitization activity of workers at the site	Daily Basis	Patelwara	ALL
15.	Mask Distribution	07/12/2023	A, Block	37
16.	Office & Labor Camp Disinfection Activity	Daily Basis	Office and Labour camp	8
17.	COVID-19 Awareness & Precautions Training for workmen and staff	17/12/2023	Patelwara	7
18.	Display of Signage for Covid-19 Awareness	10/12/2023	Material Camp	37
19.	Thermal screening of workers at the site	One week	Camp	ALL
20.	Hand Sanitization activity of workers at the site	Daily Basis	D, Block	ALL

S. No.	Activities done	Date	Location	No. of Participants
21.	Mask Distribution	15/01/2024	D, Block	80
22.	Office & Labor Camp Disinfection Activity	Daily Basis	Office and Labour camp	15
23.	COVID-19 Awareness & Precautions Training for workmen and staff	11/01/2024	Patel wara	10
24.	Display of Signage for Covid-19 Awareness	10/12/2023	Material Camp	20
25.	Thermal screening of workers at the site	One week	Camp	ALL
26.	Hand Sanitization activity of workers at the site	Daily Basis	D, Block	ALL
27.	Mask Distribution	15/01/2024	D, Block	80
28.	Office & Labor Camp Disinfection Activity	Daily Basis	Office and Labour camp	15
29.	COVID-19 Awareness & Precautions Training for workmen and staff	11/01/2024	Patel wara	10
30.	Display of Signage for Covid-19 Awareness	10/12/2023	Material Camp	20
31.	Thermal screening of worker sat The site	One week	Camp	ALL
32.	Hand Sanitization activity of Workers at the site	Daily Basis	Punarwas Colony	ALL
33.	Mask Distribution	19/03/2024	Punarwas Colony	75
34.	Office & Labor Camp Disinfection Activity	Daily Basis	Office and Labour camp	12
35.	COVID-19 Awareness & Precautions Training for workmen and staff	12/03/2024	Patelwara	15
36.	Display of Signage for Covid-19 Awareness	10/03/2024	Material Camp	10
Nathdwara Town				
1.	Thermal screening of workers at the site	Daily Basis	All Site	ALL
2.	Hand Sanitization activity of workers at the site	Daily Basis	All site	ALL
3.	Mask Distribution	Daily Basis	All site	10
4.	Office & Labor Camp Disinfection Activity	Daily Basis	All site	15
5.	COVID-19 Awareness & Precautions Training for workmen and staff	31/10/2023	Bhadari Bawdi	15
6.	Display of Signage for Covid-19 Awareness	31/10/2023	Bhandari bawdi	15
7.	Thermal screening of workers at the site	Daily Basis	All Site	ALL
8.	Hand Sanitization activity of workers at the site	Daily Basis	All site	ALL
9.	Mask Distribution	Daily Basis	All site	05
10.	Office & Labor Camp Disinfection Activity	Daily Basis	All site	10
11.	COVID-19 Awareness & Precautions Training for workmen and staff	25/11/2023	Ganesh Tekri	12
12.	Display of Signage for Covid-19 Awareness	25/11/2023	Ganesh Tekri	10
13.	Thermal screening of workers at the site	Daily Basis	All Site	ALL
14.	Hand Sanitization activity of workers at the site	Daily Basis	All site	ALL
15.	Mask Distribution	Daily Basis	All site	05
16.	Office & Labor Camp Disinfection Activity	Daily Basis	All site	10

S. No.	Activities done	Date	Location	No. of Participants
17.	COVID-19 Awareness & Precautions Training for workmen and staff	15/12/2023	Ganesh Tekri	12
18.	Display of Signage for Covid-19 Awareness	15/12/2023	Ganesh Tekri	10
19.	Thermal screening of workers at the site	Daily Basis	All Site	ALL
20.	Hand Sanitization activity of workers at the site	Daily Basis	All site	ALL
21.	Mask Distribution	Daily Basis	All site	10
22.	Office & Labor Camp Disinfection Activity	Daily Basis	All site	10
23.	COVID-19 Awareness & Precautions Training for workmen and staff	03/1/2024	Ganesh Tekri	10
24.	Display of Signage for Covid-19 Awareness	03/1/2024	Ganesh Tekri	10
25.	Thermal screening of workers at the site	Daily Basis	All Site	ALL
26.	Hand Sanitization activity of workers at the site	Daily Basis	All site	ALL
27.	Mask Distribution	Daily Basis	All site	10
28.	Office & Labor Camp Disinfection Activity	Daily Basis	All site	10
29.	COVID-19 Awareness & Precautions Training for workmen and staff	29/02/2024	300KL OSHR Bhandari bawri	08
30.	Display of Signage for Covid-19 Awareness	29/02/2024	300KI OSHR Bhandari Bawri	08
31.	Thermal screening of workers at the site	Daily Basis	All Site	ALL
32.	Hand Sanitization activity of workers at the site	Daily Basis	All site	ALL
33.	Mask Distribution	Daily Basis	All site	10
34.	Office & Labor Camp Disinfection Activity	Daily Basis	All site	10
35.	COVID-19 Awareness & Precautions Training for workmen and staff	18/03/2024	900 KL CWR	12
36.	Display of Signage for Covid-19 Awareness	29/02/2024	900 KL CWR	12
Nimbahera Town				
1.	Thermal screening of workers at the site	Daily Basis	B.R. College & WTP	ALL
2.	Hand Sanitization activity of workers at the site	Daily Basis	BR College, Zone-6,9 ,WTP	ALL
3.	Mask Distribution	02/10/2023	BR College, Zone-6,9	60
4.	Office & Labor Camp Disinfection Activity	Daily Basis	B.R. College	15
5.	COVID-19 Awareness & Precautions Training for workmen and staff	10/10/2023	B.R. College	30
6.	Display of Signage for Covid-19 Awareness	10/10/2023	B.R. College	15
7.	Health Check-up Camp(LASTMONTH)	28/08/2023	RUIDP Office	30
8.	Site medical visit			
9.	Thermal screening of workers at the site	Daily Basis	B.R. College & WTP	ALL
10.	Hand Sanitization activity of workers at the site	Daily Basis	BR College, Zone-6,9 ,WTP	ALL
11.	Mask Distribution	Daily Basis	BR College, Zone-6,9 ,WTP	60
12.	Office & Labor Camp Disinfection Activity	Daily Basis	B.R. College	15
13.	COVID-19 Awareness & Precautions Training for workmen and staff	25/11/2023	B.R. College	30

S. No.	Activities done	Date	Location	No. of Participants
14.	Display of Signage for Covid-19 Awareness	25/11/2023	B.R. College	15
15.	Health Check-up Camp(LASTMONTH)		RUIDP Office	30
16.	Thermal screening of workers at the site	Daily Basis	B.R. College & WTP	ALL
17.	Hand Sanitization activity of workers at the site	Daily Basis	BR College, Zone-6,9 ,WTP	ALL
18.	Mask Distribution	04-27/12/2023	B.R. College,Zone-6,	30
19.	Office & Labor Camp Disinfection Activity	Daily Basis	B.R. College, WTP	40
20.	COVID-19 Awareness & Precautions Training for workmen and staff	27/12/2023	B.R. College	30
21.	Display of Signage for Covid-19 Awareness	04/12/2023	B.R. College	15
22.	Health Check-up Camp(LASTMONTH)	28/08/2023	RUIDP Office	30
23.	Site medical visit			
24.	Blood Donation Camp	NO Activity		
25.	Thermal screening of workers at the site	Daily Basis	B.R. College, WTP	ALL
26.	Hand Sanitization activity of workers at the site	Daily Basis	BR,College,Zone-6,9, WTP	ALL
27.	Mask Distribution	03-4-19/1/2024	B.R.College,Zone-6	30
28.	Office & Labor Camp Disinfection Activity	Daily Basis	B.R. College, WTP	40
29.	COVID-19 Awareness & Precautions Training for workmen and staff	03/1/2024	WTP	20
30.	Display of Signage for Covid-19 Awareness	04/1/2024	B.R. College	15
31.	Health Check-up Camp(LAST MONTH)	28/08/2023	RUIDP Office	30
32.	Thermal screening of workers at the site	Daily Basis	B.R. College, WTP	ALL
33.	Hand Sanitization activity of workers at the site	Daily Basis	BR,College,Zone-6,9, WTP	ALL
34.	Mask Distribution	17/02/2024	BR,College,Zone-6, WTP	30
35.	Office & Labor Camp Disinfection Activity	Daily Basis	B.R. College, WTP	40
36.	COVID-19 Awareness & Precautions Training for workmen and staff	03/2/2024	B.R. College	20
37.	Thermal screening of workers at the site	Daily Basis	B.R. College & WTP	ALL
38.	Hand Sanitization activity of workers at the site	Daily Basis	BR College, Zone-6,9 ,WTP	ALL
39.	Mask Distribution	03-09-16/03/2024	WTP,B.R. COLLEGE,ZONE-6,	30
40.	Office & Labor Camp Disinfection Activity	Daily Basis	B.R. College, WTP	40
41.	COVID-19 Awareness & Precautions Training for workmen and staff	03/03/2024	B.R. College	20
42.	Display of Signage for Covid-19 Awareness	04/03/2024	B.R. College	15
43.	Health Check-up Camp(LASTMONTH)	28/08/2023	RUIDP Office	30
Ratangarh Drainage Town				
1.	Thermal screening of workers at the site	Daily Basis	At site	15
2.	Hand Sanitization activity of workers at the site	Daily Basis	At site	12
3.	Mask Distribution	Daily Basis	At site	8
4.	COVID-19 Awareness & Precautions Training for workmen and staff	Daily Basis	At site	

S. No.	Activities done	Date	Location	No. of Participants
5.	COVID-19 Awareness & Precautions Training for workmen and staff	29/01/2024	Near Hanuman park	03
6.	Hand Sanitization activity of workers at the site	28/01/2024	Near Hanuman park	05
7.	Mask Distribution	29/01/2024	Parmana Taal	06
8.	COVID-19 Awareness & Precautions Training for workmen and staff	29/02/2024	Near Hanuman park	03
9.	Hand Sanitization activity of workers at the site	28/02/2024	Near Hanuman park	05
10.	Mask Distribution	29/02/2024	Parmana Taal	06
11.	Covid 19 Awareness Training	30/03/2024	Office	02
12.	Mask Distribution	29/03/2024	Parmana Taal	03
13.	Hand Sanitizer	29/03/2024	Office	05
14.	Thermal screening	29/03/2024	Office	05
Jodhpur Drainage Town				
1.	Thermal screening of workers at the site	October 2023 Daily	Drainage plant	33
2.	Hand Sanitization activity of workers at the site	October 2023 Daily	Drainage plant	52
3.	Mask Distribution	October 2023 Daily	Drainage plant	22
4.	Office & Labor Camp Disinfection Activity	October 2023 Daily	Drainage plant	25
5.	Thermal screening of workers at the site	November 2023 Daily	Drainage plant	12
6.	Hand Sanitization activity of workers at the site	November 2023 Daily	Drainage plant	23
7.	Mask Distribution	November 2023 Daily	Drainage plant	11
8.	Office & Labor Camp Disinfection Activity	November 2023 Daily	Drainage plant	23
9.	Thermal screening of workers at the site	December 2023 Daily	Drainage plant	22
10.	Hand Sanitization activity of workers at the site	December 2023 Daily	At site	21
11.	Mask Distribution	December 2023 Daily	Tanavada fatwa	10
12.	Office & Labor Camp Disinfection Activity	December 2023 Daily	Drainage plant	13
13.	Thermal screening of workers at the site	January 2024 Daily	Drainage plant	12
14.	Hand Sanitization activity of workers at the site	January 2024 Daily	At site	32
15.	Mask Distribution	January 2024 Daily	Tanavada fatwa	10
16.	Office & Labor Camp Disinfection Activity	January 2024 Daily	Drainage plant	-
17.	Thermal screening of workers at the site	February 2024 Daily	Drainage plant	12
18.	Hand Sanitization activity of workers at the site	February 2024 Daily	At site	32
19.	Mask Distribution	February 2024 Daily	Tanavada fatwa	10
20.	Office & Labor Camp Disinfection Activity	February 2024 Daily	Drainage plant	-
21.	Thermal screening of workers at the site	March 2024 Daily	Drainage plant	12

S. No.	Activities done	Date	Location	No. of Participants
22.	Hand Sanitization activity of workers at the site	March 2024 Daily	At site	32
23.	Mask Distribution	March 2024 Daily	office	10
24.	Office & Labor Camp Disinfection Activity	March 2024 Daily	Drainage plant	-----
25.	Health Check-up Camp	14/3/2023	At palnt	36
Balotra Town				
1.	Mask & Hand Sanitizer	Daily basis	At site	All worker
2.	Mask & Body Temperature	Daily basis	At site	All worker
3.	Covide-19 Awareness training	Daily basis	At site	All worker
4.	Mask & Hand Sanitizer	Daily basis	At site	All worker
5.	Mask & Body Temperature	Daily basis	At site	All worker
6.	Covide-19 Awareness training	Daily basis	At site	All worker
7.	Thermal screening of workers at the site	Daily Basis	at site	5
8.	Hand Sanitization activity of workers at the site	Daily Basis	at site	7
9.	Mask Distribution	Daily Basis	at site	10
10.	Office & Labor Camp Disinfection Activity	Daily Basis	at site	6
11.	COVID-19 Awareness & Precautions Training for workmen and staff	27/3/2024	at site	8
12.	Thermal screening of workers at the site	Daily Basis	at site	13
13.	Hand Sanitization activity of workers at the site	Daily Basis	at site	12
14.	Mask Distribution	Daily Basis	at site	6
15.	Office & Labor Camp Disinfection Activity	Daily Basis	at site	8
Barmer Town				
1.	Mask & Hand Sanitizer	Daily basis	At site	ALL worker
2.	Mask & Body Temperature	Daily basis	At site	All worker
3.	Covide-19 Awareness training	Daily basis	At site	All worker
4.	Mask & Hand Sanitizer	Daily basis	At site	ALL worker
5.	Mask & Body Temperature	Daily basis	At site	All worker
6.	Covide-19 Awareness training	Daily basis	At site	All worker
7.	Thermal screening of workers at the site	Daily Basis	at site	6
8.	Hand Sanitization activity of workers at the site	Daily Basis	at site	9
9.	Mask Distribution	Daily Basis	at site	12
10.	Office & Labor Camp Disinfection Activity	Daily Basis	at site	5
11.	COVID-19 Awareness & Precautions Training for workmen and staff	19/3/2024	at site	9
12.	Thermal screening of workers at the site	Daily Basis	at site	12
13.	Hand Sanitization activity of workers at the site	Daily Basis	at site	15
14.	Mask Distribution	Daily Basis	at site	8
15.	Office & Labor Camp Disinfection Activity	Daily Basis	at site	6
Bharatpur (City Beautification) Town				
1.	Mask Distribution	11-03-2024	Town hall/Nehru park	27
Bundi (Drainage works) Town				
1.	COVID 19 awareness	25/01/2024	Bundi	12
2.	COVID 19 Awareness Training Distribution Mask And Hand Gloves s	20/03/2024	Bundi	10
Bharatpur (Sewerage works) Town				
1.	Mask & Sanitizer	11/10/2023	Zone-01, Bharatpur	07

S. No.	Activities done	Date	Location	No. of Participants
2.	Mask & Body Temperature	11/10/2023	Zone-01 Bharatpur	07
3.	Mask & Sanitizer	25/10/2023	Zone-04 Bharatpur	08
4.	Mask & Sanitizer	25/10/2023	Zone-04 Bharatpur	08
5.	Thermal screening at the site on a daily basis	On Daily Basis	All locations	All Staffs
6.	Sanitization activity at the site on a daily basis	On Daily Basis	All locations	All Staffs
7.	Mask & Sanitizer	28/11/2023	Zone-01	10
8.	Mask & Body Temperature	28/11/2023	Zone-01	10
9.	Mask & Sanitizer	30/11/2023	SPS -04	04
10.	Mask & Sanitizer	30/11/2023	SPS -04	04
11.	Thermal screening at the site on a daily basis	On Daily Basis	All locations	All Staffs
12.	Sanitization activity at the site on a daily basis	On Daily Basis	All locations	All Staffs
13.	Mask & Sanitizer	19/12/2023	SPS - 03	15
14.	Mask & Body Temperature	19/12/2023	SPS - 03	15
15.	Mask & Sanitizer	26/12/2023	SPS -04	19
16.	Mask & Body Temperature	26/12/2023	SPS -04	19
17.	Mask & Sanitizer	30/12/2023	Zone - 03	05
18.	Mask & Body Temperature	30/12/2023	Zone - 03	05
19.	Thermal screening at the site on a daily basis	On Daily Basis	All locations	All Staffs
20.	Sanitization activity at the site on a daily basis	On Daily Basis	All locations	All Staffs
21.	Mask & Sanitizer	25/01/2024	Zone - 04	04
22.	Mask & Body Temperature	25/01/2024	Zone - 04	04
23.	Mask & Sanitizer	25/01/2024	Zone - 04	04
24.	Mask & Body Temperature	25/01/2024	Zone - 04	04
25.	Mask & Sanitizer	27/01/2024	SPS -04	04
26.	Mask & Body Temperature	27/01/2024	SPS -04	04
27.	Mask & Sanitizer	29/01/2024	Zone - 03	04
28.	Mask & Body Temperature	29/01/2024	Zone - 03	04
29.	Thermal screening at the site on a daily basis	On Daily Basis	All locations	All Staffs
30.	Sanitization activity at the site on a daily basis	On Daily Basis	All locations	All Staffs
31.	Mask & Sanitizer	15/03/2024	Zone – 01	04
32.	Mask & Body Temperature	15/03/2024	Zone - 01	04
33.	Mask & Sanitizer	15/03/2024	Zone - 04	04
34.	Mask & Body Temperature	15/03/2024	Zone - 04	04
35.	Mask & Sanitizer	21/03/2024	SPS -04	04
36.	Mask & Body Temperature	21/03/2024	SPS -04	04
37.	Mask & Sanitizer	21/03/2024	Zone - 03	04
38.	Mask & Body Temperature	21/03/2024	Zone - 03	04
39.	Thermal screening at the site on a daily basis	On Daily Basis	All locations	All Staffs
40.	Sanitization activity at the site on a daily basis	On Daily Basis	All locations	All Staffs
Bundi Water Supply & Sewerage Works) Town				
1.	Hand sanitizing Training	13/10/2023	STP, Ramganj Bala Ji	16
2.	Thermal Screening Training	13/10/2023	STP, Ramganj Bala Ji	16
3.	Covid-19 Awareness	13/10/2023	STP, Ramganj Bala Ji	16
4.	Hand sanitizing Training	29/11/2023	STP, Ramganj Bala Ji	10
5.	Thermal Screening Training	29/11/2023	STP, Ramganj Bala Ji	10
6.	Covid-19 Awareness	18/11/2023	STP, Ramganj Bala Ji	12

S. No.	Activities done	Date	Location	No. of Participants
7.	Hand sanitizing Training	20/12/2023	STP, Ramganj Bala Ji	15
8.	Thermal Screening Training	20/12/2023	STP, Ramganj Bala Ji	15
9.	Covid-19 Awareness	20/12/2023	STP, Ramganj Bala Ji	15
10.	Hand sanitizing Training	19/01/2024	STP, Ramganj Bala Ji	09
11.	Thermal Screening Training	19/01/2024	STP, Ramganj Bala Ji	09
12.	Covid-19 Awareness Training	19/01/2024	STP, Ramganj Bala Ji	09
13.	Hand sanitizing Training	22/02/2024	STP, Ramganj Bala Ji	11
14.	Thermal Screening Training	22/02/2024	STP, Ramganj Bala Ji	11
15.	Mask Distribution	22/02/2024	STP, Ramganj Bala Ji	11
16.	Covid-19 Awareness Training	22/02/2024	STP, Ramganj Bala Ji	11
17.	First-aid training	05/02/2024	STP, Ramganj Bala Ji	21
18.	Hand sanitizing Training	09/3/2024	STP, Ramganj Bala Ji	13
19.	Thermal Screening Training	09/03/2024	STP, Ramganj Bala Ji	13
20.	Mask Distribution	09/03/2024	STP, Ramganj Bala Ji	13
21.	Covid-19 Awareness Training	09/03/2024	STP, Ramganj Bala Ji	13
22.	First-aid training	29/03/2024	STP, Ramganj Bala Ji	14

**Photographs showing COVID-19 (Awareness, Prevention and Control)
Compliance by Towns during October 2023 to March 2024**

A group of workers wearing orange safety vests and yellow hard hats are standing in a line outdoors. A person in a white lab coat and green cap is using a thermal imaging device to screen them.	A group of workers in orange safety vests and yellow hard hats are standing in a line outdoors. A person in a white lab coat and green cap is dispensing hand sanitizer into their hands. A map overlay shows the location in Rajasthan, India.
Thermal Screening of workers at site (Jodhpur)	Hand Sanitization activity of workers at site (Jodhpur)
A group of workers in orange safety vests and yellow hard hats are standing in a line outdoors. A person in a white lab coat and green cap is addressing them.	A group of workers in orange safety vests and yellow hard hats are standing in a line outdoors. A person in a white lab coat and green cap is distributing face masks to them.
Labor Meeting about Awareness & Safety of covid-19 (Jodhpur)	Face Mask Distribution to workers at Site (Jodhpur)
A group of workers in orange safety vests and yellow hard hats are standing in a line outdoors. A person in a white lab coat and green cap is using a thermal imaging device to screen them.	A group of workers in orange safety vests and yellow hard hats are sitting at a table indoors. A person in a white lab coat and green cap is conducting a medical health checkup on them.
Thermal Screening of workers at site (Nokha)	Medical Health Checkup of workers (Nokha)
A group of workers in orange safety vests and yellow hard hats are standing in a line indoors. A person in a white lab coat and green cap is addressing them.	A group of workers in orange safety vests and yellow hard hats are standing in a line indoors. A person in a white lab coat and green cap is dispensing hand sanitizer into their hands.
Labor Meeting about Awareness & Safety of covid-19 (Nokha)	Hand Sanitization activity at site (Nokha)

	
Thermal Screening of workers at site (Nathdwara)	Hand Sanitization activity of workers at site (Nathdwara)
	
Face Mask Distribution to workers at site (Nathdwara)	Labour Awareness & Safety of covid-19 to workers at site (Nathdwara)
	
Hand Sanitization activity of workers at site Nimbahera	Thermal Screening of workers at site Nimbahera
	
Labour Awareness & Safety of covid-19 (Nimbahera)	Medical Health Checkup of site workers (Nimbahera)

	
Thermal Screening of workers at site (Dungarpur)	Hand Sanitization activity of workers at site (Dungarpur)
	
Covid-19 Poster Presentation at work Site (Dungarpur)	Face Mask Distribution to workers at Site (Dungarpur)
	
COVID – 19 Awareness & Precautions Training for workmen and staff (Dungarpur)	Display of Signage for Covid-19 Awareness (Dungarpur)
	
Hand Sanitization activity of workers at site Sagwara	COVID-19 Awareness & Precautions Training for workmen at Site Sagwara

	
Face Mask distribution to workers at site (Jodhpur Drainage)	Medical Health Check-up of workers (Jodhpur Drainage)
	
Hand Sanitization activity of workers at site (Balotra)	Face Mask distribution to workers at site (Balotra)
	
Labour meeting for Awareness & Safety of covid-19 (Balotra)	Hand Sanitization activity of workers at site (Barmer)
	
Labour meeting for Awareness & Safety of covid-19 (Barmer)	Face Mask distribution to workers at site (Barmer)

	
Thermal Screening of workers at site (Bundi Water Supply & Sewerage Sub project)	Hand Sanitization activity of workers at site (Bundi Water Supply & Sewerage Sub project)
	
Face Mask Distribution to workers at site (Bundi Water Supply & Sewerage Sub project)	Labour meeting for Awareness & Safety of covid-19 (Bundi Water Supply & Sewerage Sub project)
 Bundi, Rajasthan, India CJRD-706, Kota Rd, Vikasnagar, Bundi, Rajasthan 323001, India Lat 25.440672° Long 75.638758° 20/03/24 10:47 AM GMT +05:30	
Face Mask Distribution to workers at Site (Bundi Drainage sub project)	Face Mask Distribution to workers at Site (Bharatpur City Beautification sub project)
 Bharatpur, Rajasthan, India 38/235, Subhash Nagar, Bharatpur, Rajasthan 321001, India Lat 27.224798° Long 75.476625° 27/01/24 11:02 AM GMT +05:30	 Bharatpur, Rajasthan, India 47/105/101, Marwara Rd, Anand Nagar, Bharatpur, Rajasthan 321001, India Lat 27.259191° Long 75.469734° 28/01/24 11:43 AM GMT +05:30
Thermal Screening of workers at site (Bharatpur Sewerage)	Hand Sanitization activity of workers at site Bharatpur (Sewerage)

Appendix 11: ENVIRONMENTAL MONITORING RESULTS DURING OCTOBER 2023 TO MARCH 2024 IN RSTDSP

Air Monitoring Results

Ambient Air Quality Standards (National and IFC Standards)					
Standards	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (µg/m ³)
National Ambient Air Quality Standards	60 (Annual) 100 (24-hr)	40 (Annual) 60 (24-hr)	50 (Annual) 80 (24-hr)	40 (Annual) 80 (24-hr)	2,000 (8-hr) 4,000 (1-hr)
IFC Standards Applicable as Per ADB SPS (µg/m ³)	20 (Annual) 50 (24-hr)	10 (Annual) 25 (24-hr)	50 (Annual) 20 (24-hr) 500 (10-min)	40 (Annual) 80 (24-hr) 200 (1-hr)	2,000 (8-hr) 4,000 (1-hr) 100,000 (15-min)

Air Monitoring Results – 4th Quarter of 2023 (October 2023 to December 2023)

S.No.	Package / Town / Monitoring Location	Monitoring date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
1	RSTDSP/NKH/01						
	Nokha Town						
	SPS at Nokha	07.10.2023 to 09.10.2023	69.69	28.40	8.36	15.10	0.45
	Raisar Head Works		73.56	32.89	9.36	21.74	0.50
	AEn Campus Nanwali gate		70.41	28.63	8.14	15.21	0.56
	STP 5 MLD at Madiya		76.25	27.41	9.36	19.36	0.51
	Ranarao WH		62.41	25.74	7.89	13.36	0.59
	STP 5 MLD at Charkara		73.45	31.62	8.41	17.26	0.49
	Water Distribution Network Zone – 1		69.74	26.55	7.36	15.60	0.55
Near Bhato ki Tanki							
2	RSTDSP/NTD/01						
	Nathdwara Town						
	WTP Nathdwara	02.11.2023 to 04.11.2023	80.96	36.58	8.54	25.16	0.67
	OHSR 1500 KL		77.25	32.19	8.04	22.68	0.62
	CRMC at Imli Chowk		77.05	34.67	8.69	24.25	0.67
	Kothariya Road		75.10	35.46	8.47	23.69	0.68
	3		RSTDSP/NBH/01				
Nimbahera Town							
Atal nagar Housing Board Colony		29.10.2023 to	78.24	33.14	8.27	22.36	0.72
WTP Araniya Joshi			83.14	39.29	8.64	25.55	0.70
CRMC Building BR College		30.10.2023	79.26	35.40	8.37	23.18	0.73
4	RSTDSP/JOD/01						
	Jodhpur (Sewerage) Town						
	8 Meel Mandor	19.10.2023 to	67.59	21.86	7.58	13.06	0.54
	SPS Near Nandri		69.32	23.83	9.50	14.73	0.56
	Ganesh Pura	21.10.2023	64.56	20.44	8.88	12.90	0.52
5	RSTDSP/DNG-WS-WW/01						
	Dungarpur Town						
	Old City Manak Chok	23.10.2023	65.29	28.64	11.24	15.13	BDL
6	RSTDSP/SGW/WS-WW/01						
	Sagwara Town						
	1 MLD Near Indian Oil Petrol Pump Punarwas Colony	24.10.2023	73.29	34.63	14.37	17.82	BDL
	CWR pumping station		69.62	34.16	12.94	21.33	BDL
7	RSTDSP/NAW-RAT/DR/01						
	Ratangarh Drainage						
	SWPS 1 (Near Rly Quarters)	25.10.2023 to 27.10.2023	74.49	26.08	12.86	17.43	0.62
	SWPS 2 (Saraf Sump Well)		77.22	46.67	10.70	16.41	0.66
	SWPS 3 (ParmanaTaal)		68.96	25.99	9.66	17.61	0.63
	SWPS 4 (Main Ginani)		74.11	25.77	12.30	18.06	0.66
	SWPS 5 (Near BSNL Office)		65.11	24.09	10.63	17.48	0.52

	SWPS 6 (Near Hanuman Park)		71.61	25.28	8.24	18.04	0.54
	Disposal point 1 (SWPS -3&5)		65.69	24.68	17.91	11.12	0.57
	Disposal point 3 (SWPS -1&2)		63.51	26.62	17.17	10.40	0.48
	Disposal point 2 (SWPS -4&6)		61.42	24.77	16.73	9.52	0.40
8	RSTDSP/JOD/02						
	Jodhpur (Drainage) Town						
	SMCC site plant area	12.10.2023 & 19.10.2023	87.0	50.0	10.45	17.26	-
	Banar Road Nandri		132	65.0	20.14	34.18	-
	Near Derby Colony		96.0	55.0	12.4	22.1	-
	Near Jojri River Prem Nagar		83.0	46.0	11.63	17.78	-
	Near Railway Line Banar		96.0	58.0	11.45	26.72	-
	Opposite Khangta Hospital		103.0	52.0	15.98	29.41	-
	STP Plant , salawash		110.0	62.0	18.16	29.87	-
9	RSTDSP/BHR/WW/01						
	Bharatpur (Sewerage Works)						
	STP-1	16.12.2023 to 18.12.2023	68.12	25.44	8.64	16.15	0.53
	SPS-04(2.25 MLD, Zone 4)		67.49	26.01	8.14	14.84	0.67
	SPS-03 (1.6 MLD, Zone 3)		70.46	26.77	8.79	16.45	0.71
Pipe Laying Site Near Sensitive Area (Zone 1)/ Near SPS-01	73.17		27.29	9.46	17.92	0.73	
10	RSTDSP/BHR/CTYBF/01						
	Bharatpur (City Beautification Works)						
	Laxman Mandir	18.12.2023 to 19.12.2023	62.47	25.93	8.11	22.36	0.60
	Hanuman Mandir Near Shaligram Kund		63.89	26.47	8.76	24.16	0.62
	Brijendra Bihari Kund		60.17	24.37	8.02	19.37	0.58
	Town Hall & Nehru Park/ Maharaja Surajmal Park, Fort Area		58.43	22.36	7.92	17.52	0.55
11	RSTDSP/BUN/01						
	Bundi (Water Supply & Sewerage Works)						
	Vikas Nagar OSSR	27.10.2023	74.18	30.23	8.17	24.58	0.64
	CWR, Nainwa Road		79.26	35.12	8.48	25.43	0.65
	STP Site, Ramganj Balaji		82.17	38.64	8.76	26.35	0.65
Nahar Ka Chohatta	70.96		24.12	7.38	19.55	0.61	
12	RSTDSP/BUN-BHM/DR/01						
	Bundi (Drainage Works)						
	Jait Sagar Nalla, Near Arriwali Marriage Garden	21.10.2023 to 22.10.2023	65.54	34.61	7.98	14.44	0.52
	Jait Sagar Nalla, Near Meera Bagh Choki		57.06	29.87	7.21	13.82	0.54
	City Kotwali Police Thana		64.44	30.39	8.35	14.81	0.51
	Bharat Petrol Pump (Devpora)		62.32	25.01	9.35	16.27	0.59
	Nainwa Road, Magistrate Colony		57.49	22.29	8.57	13.69	0.56
Batching Plant, Near Meera Road	63.61		26.46	9.18	13.0	0.53	
13	RSTDSP/BUN-BHM/DR/01						
	Bhawani Mandi (Drainage Works)						
	Trimurti Colony Dag Road Pachhad	22.10.2023 to 23.10.2023	60.9	25.01	13.19	20.54	0.52
	Near Baba Circle		65.18	24.17	12.61	20.05	0.59
	Sadar Bazar Near Tarachand Hotel		63.35	27.01	11.87	18.67	0.56
	Asharam Road Near Santi Choraya		61.66	22.32	10.96	18.10	0.58
	Jawahar Colony Near Vivekanand Choraya		69.34	25.14	11.14	17.94	0.61
14	RSTDSP/NAW-RAT/DR/01						
	Nawalgarh (Drainage Works)						
	Near Bakra Mandi	27.10.2023 to 29.10.2023	68.27	24.34	9.52	16.73	0.70
	Near Fire Station		67.46	26.92	11.82	17.99	0.74
	Swamiyo Ka Jav		62.30	25.02	9.78	19.07	0.59
	Near Bhagton Ka Johad		67.81	25.26	8.42	19.56	0.62
	Derana Johad (Disposal Point)		56.16	22.28	10.54	14.93	0.58
Badrana Johar (Disposal Point)	63.04		25.80	11.24	18.73	0.62	

Noise Monitoring Results

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

Noise Monitoring Results – 4th Quarter of 2023 (October 2023 to December 2023)

S.N.	Package / Town / Monitoring Location	Monitoring date	Noise Level Leq (dB(A))	
			Day time	Night time
1	RSTDSP/NKH/01			
	Nokha Town			
	SPS at Nokha	07.10.2023 to 09.10.2023	53.69	41.80
	Raisar Head Works		58.63	43.78
	AEn Campus Nanwali gate		53.89	42.60
	STP 7 MLD at Madiya		60.36	49.74
	Ranarao WH		62.89	50.40
	STP 5 MLD at Charkara		67.42	56.36
	Water Distribution Network Zone 1, Near Bhato ki Tanki		63.78	48.39
2	RSTDSP/NTD/01			
	Nathdwara Town			
	WTP Nathdwara	02.11.2023 to 04.11.2023	61.4	44.5
	OHSR 1500 KL		58.7	42.1
	CRMC at Imli Chowk		64.2	46.0
	Kothariya Road		55.7	40.2
3	RSTDSP/NBH/01			
	Nimbahera Town			
	Atal nagar Housing Board Colony	29.10.2023 to 30.10.2023	60.2	42.0
	WTP Araniya Joshi		65.2	46.8
	CRMC Building BR College		54.2	40.0
4	RSTDSP/JOD/01			
	Jodhpur (Sewerage) Town			
	8 Meel Mandor	19.10.2023 to 21.10.2023	63.10	47.20
	SPS Near Nandri		64.30	49.10
	Ganesh Pura		60.40	46.46
5	RSTDSP/DNG-WS-WW/01			
	Dungarpur Town			
	CWR pumping station at udai vilas	23.10.2023 to 25.10.2023	46.9	38.2
	CWR pumping station at New Colony		64.6	43.4
6	RSTDSP/SGW/WS-WW/01			
	Sagwara Town			
	CWR pumping station	02.11.2023	63.3	43.4
	1 MLD Near Indian Oil Petrol Pump Punarwas Colony		67.8	44.6
7	RSTDSP/NAW-RAT/DR/01			
	Ratangarh Drainage			
	SWPS -1 (Near Rly Quarters)	25.10.2023	66.2	56.2
	SWPS - 2 (Saraf Sump Well)		67.4	56.1
	SWPS -3 (ParmanaTaal)		67.2	67.2
	SWPS -4 (Main Ginani)		66.2	61.2
	SWPS 5 (Near BSNL Office)		66.4	58.3
	SWPS 6 (Near Hanuman Park)		68.2	57.2
	Disposal point -1(SWPS -3&5)		63.4	57.2

	Disposal point -3(SWPS -1&2)		69.3	54.1	
	Disposal point -2(SWPS -4&6)		66.3	60.2	
8	RSTDSP/JOD/02				
	Jodhpur (Drainage) Town				
	SMCC site plant area	12.10.2023 to 19.10.2023	65.4	36.9	
	Banar Road Nandri		72.4	44.6	
	Near Derby Colony		61.2	36.7	
	Near Jojri River Prem Nagar		56.7	37.2	
	Near Railway Line Banar		68.2	41.8	
	Opposite Khangta Hospital		65.7	39.7	
	STP Plant , salawash		69.6	46.8	
9	RSTDSP/BHR/WW/01				
	Bharatpur (Sewerage Works)				
	STP-1	16.12.2024 to 18.12.2024	59.36	43.10	
	SPS-04(2.25 MLD, Zone 4)		62.50	47.32	
	SPS-03(1.6 MLD, Zone 3)		60.40	42.20	
	Pipe Laying Site Near Sensitive Area (Zone 1)/Near SPS-01		64.72	49.62	
10	RSTDSP/BHR/CTYBF/01				
	Bharatpur (City Beautification Works)				
	Laxman Mandir	18.12.2024	63.8	41.0	
	Hanuman Mandir Near Shaligram Kund		57.6	39.5	
	Brijendra Bihari Kund		60.2	41.7	
Town Hall & Nehru Park/ Maharaja Surajmal Park, Fort Area	54.2		39.0		
11	RSTDSP/BUN/01				
	Bundi (Water Supply & Sewerage Works)				
	Vikas Nagar OSSR	27.10.2023	61.2	43.5	
	CWR, Nainwa Road		58.4	41.6	
	STP Site, Ramganj Balaji		64.5	40.3	
Nahar Ka Chohatta	54.2		38.9		
12	RSTDSP/BUN-BHM/DR/01				
	Bundi (Drainage Works)				
	Jait Sagar Nalla, Near Arriwali Marriage Garden	21.10.2023 to 22.10.2023	62.4	53.5	
	Jait Sagar Nalla, Near Meera Bagh Choki		67.3	51.2	
	City Kotwali Police Thana		69.4	56.4	
	Bharat Petrol Pump (Devpura)		64.5	53.1	
	Nainwa Road, Magistrate Colony		63.7	46.4	
Batching Plant, Near Meera Road	64.3		50.2		
13	RSTDSP/BUN-BHM/DR/01				
	Bhawani Mandi (Drainage Works)				
	Trimurti Colony Dag Road Pachhad	22.10.2023 to 23.10.2023	67.3	47.3	
	Near Baba Circle		62.3	49.4	
	Sadar Bazar Near Tarachand Hotel		63.4	48.3	
	Asharam Road Near Santi Choraya		67.0	52.6	
Jawahar Colony Near Vivekanand Choraya	67.6		51.4		
14	RSTDSP/NAW-RAT/DR/01				
	Nawalgarh (Drainage Works)				
	Near Bakra Mandi	27.10.2028 to 29.10.2028	59.4	53.2	
	Near Fire Station		63.4	53.6	
	Swamiyo Ka Jav		64.4	52.1	
	Near Bhagton Ka Johad		62.3	52.6	
	Derana Johad (Disposal Point)		60.3	49.1	
	Badrana Johar (Disposal Point)		62.6	50.3	

Ground Water Quality Monitoring Results - Nokha Town

S.No	Parameters	Units	Town : Nokha (RSTDSP/NKH/01)				
			(Date of sampling: 07.10.2023 & 08.10.2023)				
			SPS site	AEN Campus Nanwali gate	Bagdi Head Works	Raisar Head Works	Ranaraw WH
1	pH	-	7.65	7.51	7.48	7.60	7.85
2	Total Dissolved solids	mg/l	1085	1231	1562	1124	1023
3	Alkalinity as CaCO ₃	mg/l	304	380	210	372	341
4	Total Hardness as CaCO ₃	mg/l	338	326	321	361	247
5	Nitrate as NO ₃	mg/l	15	25	15	19	22
6	Chlorides as Cl	mg/l	320	750	856	631	332
7	Sulphate as SO ₄	mg/l	53	308	198	135	69
8	Fluorides (as F)	mg/l	0.5	0.5	0.05	0.4	0.7
9	Iron as Fe	mg/l	<0.005	0.005	0.003	0.006	0.003
10	Arsenic (as As)	mg/l	BDL	BDL	BDL	BDL	BDL
11	Mercury (as Hg)	mg/l	BDL	BDL	BDL	BDL	BDL
12	Lead (as Pb)	mg/l	BDL	BDL	BDL	BDL	BDL
13	Cadmium (as Cd)	mg/l	BDL	BDL	BDL	BDL	BDL
14	Copper as Cu	mg/l	BDL	BDL	BDL	BDL	BDL
15	Zinc as Zn	mg/l	BDL	BDL	BDL	BDL	BDL
16	Manganese as Mn	mg/l	BDL	BDL	BDL	BDL	BDL
17	Phenolic compounds	mg/l	BDL	BDL	BDL	BDL	BDL
18	Dissolved Oxygen (DO)	mg/l	7.3	6.5	6.16	6.1	7.1
19	Phosphate as P	mg/l	0.06	0.06	0.80	0.32	0.25
20	Hexavalent Chromium as Cr ⁺⁶)	mg/l	BDL	BDL	BDL	BDL	BDL

BDL- Below Detectible Limit

Ground Water Quality Monitoring Results – Nathdwara Sub Project Town
Continuation Sheet -- 2

S.No	Parameters	Units	Town: Nathdwara (RSTDSP/NTD/01)			
			Date of Sampling: 02.11.2023 & 03.11.2023			
			OHSR 1500 KL	Bhandariya Bawdi	CRMC at Imli Chowk	Kothariya Road
1	pH @ 25°C	-	8.28	7.86	7.38	7.75
2	Total Dissolved solids	mg/l	729.40	886.50	796.17	890.10
3	Total Hardness as CaCO ₃	mg/l	105.13	299.22	367.96	292.29
4	Total Alkalinity	mg/l	379.04	461.44	218.36	320.0
5	Nitrate as NO ₃	mg/l	36.73	35.31	22.08	30.11
6	Chlorides as Cl	mg/l	104.50	80.75	154.95	198.52
7	Sulphate as SO ₄	mg/l	38.16	70.16	61.60	78.40
8	Iron as Fe	mg/l	0.08	0.10	0.11	0.09
9	Fluorides (as F)	mg/l	0.12	0.19	0.20	0.20
10	Zinc as Zn	mg/l	0.02	0.02	0.03	0.03
11	Copper as Cu	mg/l	BDL	BDL	BDL	BDL
12	Manganese as Mn	mg/l	BDL	BDL	BDL	BDL
13	Mercury as Hg	mg/l	BDL	BDL	BDL	BDL
14	Cadmium as Cd	mg/l	BDL	BDL	BDL	BDL
15	Arsenic as Ar	mg/l	BDL	BDL	BDL	BDL
16	Lead (as Pb)	mg/l	BDL	BDL	BDL	BDL
17	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL	BDL	BDL	BDL
18	Dissolved Oxygen (DO)	mg/l	5.42	5.28	5.16	5.12
19	Phosphate as P	mg/l	BDL	BDL	BDL	BDL
20	Phenolic Compound	mg/l	BDL	BDL	BDL	BDL

BDL - Below Detectible limit

Ground Water Quality Monitoring Results – Nimbahera Sub Project Town
Continuation Sheet -- 3

S.No	Parameters	Units	Town: Nimbahera (RSTDSP/NBH/01)	
			Date of Sampling: 29.10.2023	
			WTP Site Araniya Joshi	CRMC Building
1	pH @ 25°C	-	7.45	7.25
2	Total Dissolved solids	mg/l	440.36	592.34
3	Total Hardness as CaCO ₃	mg/l	164.20	256.14
4	Total Alkalinity	mg/l	128.84	187.25
5	Nitrate as NO ₃	mg/l	18.96	26.34
6	Chlorides as Cl	mg/l	58.32	59.20
7	Sulphate as SO ₄	mg/l	24.10	22.13
8	Iron as Fe	mg/l	0.02	0.04
9	Fluorides (as F)	mg/l	0.05	0.10
10	Zinc as Zn	mg/l	BDL	BDL
11	Copper as Cu	mg/l	BDL	BDL
12	Manganese as Mn	mg/l	BDL	BDL
13	Mercury as Hg	mg/l	BDL	BDL
14	Cadmium as Cd	mg/l	BDL	BDL
15	Arsenic as Ar	mg/l	BDL	BDL
16	Lead (as Pb)	mg/l	BDL	BDL
17	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL	BDL
18	Dissolved Oxygen (DO)	mg/l	5.10	5.30
19	Phosphate as P	mg/l	BDL	BDL
20	Phenolic Compound	mg/l	BDL	BDL

BDL - Below Detectible limit

Ground Water Quality Monitoring Results - Dungarpur Sub project Town
Continuation Sheet -- 4

S No	Parameters	Units	Town: Dungarpur Town RSTDSP/DNG/WS-WW/01
			Date of Monitoring – 23.10.2023
			Location: CWR & Pumping Station at New Colony
1	pH	-	7.71
2	Total Dissolved solids	mg/l	680
3	Alkalinity as CaCO ₃	mg/l	335.40
4	Total Hardness as CaCO ₃	mg/l	310.56
5	Nitrate as NO ₃	mg/l	13.57
6	Chlorides as Cl	mg/l	124.41
7	Sulphate as SO ₄	mg/l	81.43
8	Fluorides(as F)	mg/l	0.34
9	Iron as Fe	mg/l	BDL
10	Arsenic(as As)	mg/l	BDL)
11	Mercury(as Hg)	mg/l	BDL
12	Lead(as Pb)	mg/l	BDL
13	Cadmium(as Cd)	mg/l	BDL
14	Copper as Cu	mg/l	BDL
15	Zinc as Zn	mg/l	BDL
16	Manganese as Mn	mg/l	BDL
17	Phenolic compounds	mg/l	BDL
18	Dissolved Oxygen(DO)	mg/l	6.75
19	Phosphate asPO ₄	mg/l	BDL
20	Chromium as Cr)	mg/l	BDL

BDL - Below Detectible limit

Ground Water Quality Monitoring Results - Sagwara Sub Project Town
Continuation Sheet -- 5

S No	Parameters	Units	Town Name: Sagwara RSTDSP/SGW/WS-WW/01	
			Date of Monitoring – 23.10.2023	
			CWR Pumping Station	STP 3.6 MLD Near BSNL office
1	pH	-	7.42	6.95
2	Total Dissolved solids	mg/l	400.0	340.0
3	Total Hardness as CaCO ₃	mg/l	203.80	135.87
4	Chlorides as Cl	mg/l	57.42	50.72
5	Alkalinity as CaCO ₃	mg/l	214.50	193.05
6	Nitrate as NO ₃	mg/l	7.96	6.77
7	Sulphate as SO ₄	mg/l	27.15	36.12
8	Iron as Fe	mg/l	0.08	BDL (<0.1)
9	Fluorides(as F)	mg/l	0.40	0.25
10	Phosphate as PO ₄	mg/l	(BDL <0.05)	(BDL <0.05)
11	Dissolved Oxygen (DO)	mg/l	7.18	7.33
12	Lead (as Pb)	mg/l	BDL	BDL
13	Arsenic (as As)	mg/l	BDL	BDL
14	Cadmium (as Cd)	mg/l	BDL	BDL
15	Mercury (as Hg)	mg/l	BDL	BDL
16	Selenium as Se	mg/l	BDL	BDL
17	Chromium as Cr	mg/l	BDL	BDL
18	Copper as Cu	mg/l	BDL	BDL
19	Manganese as Mn	mg/l	BDL	BDL
20	Zinc as Zn	mg/l	BDL	BDL
21	Phenolic compounds	mg/l	BDL	BDL

BDL - Below Detectible limit

Ground Water Quality Monitoring Results - Jodhpur (Sewerage works)**Continuation Sheet -- 6**

S.No	Parameters	Units	Town : Jodhpur (Sewerage works) RSTDSP/JOD/01		
			Date of Sampling: 20.10.2023		
			8 Meel mandor	SPS Near Nandri	Ganeshpura
1	pH @ 25°C	-	7.51	7.85	7.45
2	Chlorides as Cl	mg/l	43.05	59.89	54.28
3	Fluorides (as F)	mg/l	0.26	0.39	BDL (< 0.2)
4	Nitrate as NO ₃	mg/l	0.97	1.34	0.89
5	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)
6	Sulphate as SO ₄	mg/l	12.28	14.61	18.64
7	Total Alkalinity	mg/l	144.90	133.98	182.70
8	Total Dissolved solids	mg/l	223.0	277.0	294.90
9	Total Hardness as CaCO ₃	mg/l	198.0	202.40	114.40
10	Cadmium (as Cd)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
11	Copper as Cu	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
12	Iron as Fe	mg/l	BDL (<0.10)	0.22	BDL (<0.10)
13	Lead (as Pb)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
14	Manganese as Mn	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
15	Mercury (as Hg)	mg/l	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)
16	Zinc as Zn	mg/l	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)
17	Arsenic (as As)	mg/l	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)
18	Phosphate as PO ₄	mg/l	9.30	0.4	0.27
19	Hexavalent Chromium as Cr ⁺⁶)	mg/l	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)
20	Dissolved Oxygen	mg/l	4.4	4.83	4.2

BDL - Below Detectible limit

Ground Water Quality Monitoring Results -Town Name: Jodhpur (Drainage) Town
Continuation Sheet -- 7

S. No	Parameters	Units	Jodhpur Drainage (RSTDSP/JOD/02)						
			(Date of Monitoring: 13-10-2023)						
			SMCC site Plant Area	Banar Road Nandri	Near Derby Colony	Near Jodri River Prem Nagar	Near railway Line Banar	Opposite Khangta Hospital	Near STP Plant Salawas
1	pH	-	7.7	8.4	8.2	8.1	7.4	7.6	8.0
2	Total Dissolved Solids	mg/l	1455.0	2395.0	460.0	1180.0	1130.0	1155.0	2120.0
3	Turbidity	NTU	BDL	4.0	BDL	3.0	1.0	2.0	1.0
4	Total Alkalinity	mg /l	220.0	830.0	265.0	460.0	445.0	455.0	680.0
5	Sodium	mg/l	400.0	875.0	135.0	300.0	245.0	290.0	750.0
6	Potassium	mg/l	14.3	1.0	0.8	3.3	2.8	3.0	2.8
7	Calcium	mg/l	98.0	12.0	32.0	63.0	95.0	68.0	16.0
8	Magnesium	mg/l	29.0	17.0	9.5	45.0	58.0	43.0	18.0
9	Total Hardness	mg/l	365.0	100.0	120.0	343.0	475.0	348.0	115.0
10	Chloride	mg/l	568.0	588.0	81.0	209.0	267.0	203.0	475.0
11	Sulphate	mg/l	95.0	102.0	5.8	85.0	55.0	70.0	245.0
12	Nitrate	mg/l	165.0	290.0	36.0	192.0	160.0	200.0	198.0
13	Fluoride	mg/l	1.4	1.4	0.1	0.0	BDL	0.1	4.6
14	Iron	mg/l	0.0	0.1	0.0	0.0	0.0	0.0	0.1
15	Phosphate	mg/l	5.9	3.9	4.6	3.8	4.9	3.9	7.7
16	Dissolved Oxygen	mg/l	6.5	6.5	6.2	6.7	7.0	6.8	5.7
17	Zinc	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL
18	Copper	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL
19	Manganese	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL
20	Cadmium	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL
21	Chromium	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL
22	Lead	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL

BDL - Below Detectible limit

Ground Water Quality Results - Bharatpur (Sewerage Works) Sub Project Town)
Continuation Sheet -- 8

S. No	Parameters	Units	Town: Bharatpur (Sewerage Works) RSTDSP/BHR/WW/01
			Date of Sampling: 17.12.2023
			Location : SPS-04(2.25 MLD, Zone 4)
1	pH @ 25°C	-	7.55
2	Chlorides as Cl	mg/l	404.02
3	Fluorides (as F)	mg/l	2.91
4	Nitrate as NO ₃	mg/l	1.83
5	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL (<0.10)
6	Sulphate as SO ₄	mg/l	144.08
7	Total Alkalinity	mg/l	661.78
8	Total Dissolved solids	mg/l	1210.00
9	Total Hardness as CaCO ₃	mg/l	519.12
10	Cadmium (as Cd)	mg/l	BDL (<0.05)
11	Copper as Cu	mg/l	BDL (<0.05)
12	Iron as Fe	mg/l	0.35
13	Lead (as Pb)	mg/l	BDL (<0.05)
14	Manganese as Mn	mg/l	BDL (<0.05)
15	Mercury (as Hg)	mg/l	BDL (<0.001)
16	Zinc as Zn	mg/l	BDL (<0.20)
17	Arsenic (as As)	mg/l	BDL (<0.005)
18	Phosphate as PO ₄	mg/l	0.79
19	Hexavalent Chromium as Cr ⁺⁶)	mg/l	BDL (<0.02)
20	Dissolved Oxygen	mg/l	6.8
21	Calcium (Ca)	mg/l	108.98
22	Magnesium	mg/l	60.07

BDL- Below Detectible Limit

Ground Water Quality Results – Bundi (Water Supply & Sewerage works) Sub Project Town
Continuation Sheet -- 9

S. No	Parameters	Units	Town: Bundi (Wastewater & Water Supply) RSTDSP/BUN/01			
			Date of Sampling: 27.10.2023 & 28.10.2023			
			Vikas nagar OSSR	STP Site, Ramganj Balaji	CWR, Nainwa Road	Nahar Ka Chohatta
1	pH @ 25°C	-	7.38	7.40	7.15	7.58
2	Total Dissolved solids	mg/l	465.29	892.67	256.32	405.26
3	Total Hardness as CaCO ₃	mg/l	224.18	212.36	32.14	185.69
4	Total Alkalinity	mg/l	196.27	198.58	80.26	112.28
5	Nitrate as NO ₃	mg/l	15.26	21.05	5.20	8.54
6	Chlorides as Cl	mg/l	32.47	286.73	49.75	38.25
7	Sulphate as SO ₄	mg/l	16.28	122.03	22.38	16.30
8	Iron as Fe	mg/l	0.08	0.10	0.01	BDL
9	Fluorides (as F)	mg/l	0.15	0.18	0.04	0.03
10	Zinc as Zn	mg/l	BDL	0.02	BDL	BDL
11	Copper as Cu	mg/l	BDL	BDL	BDL	BDL
12	Manganese as Mn	mg/l	BDL	BDL	BDL	BDL
13	Mercury (as Hg)	mg/l	BDL	BDL	BDL	BDL
14	Cadmium (as Cd)	mg/l	BDL	BDL	BDL	BDL
15	Arsenic (as As)	mg/l	BDL	BDL	BDL	BDL
16	Lead (as Pb)	mg/l	BDL	BDL	BDL	BDL
17	Hexavalent Chromium as Cr ⁺⁶)	mg/l	BDL	BDL	BDL	BDL
18	Dissolved Oxygen	mg/l	5.20	5.20	6.20	5.5
19	Phosphate as PO ₄	mg/l	BDL	BDL	BDL	BDL
20	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL	BDL	BDL	BDL

BDL- Below Detectible Limit

Ground Water Quality Results – Ratangarh (Drainage works) Sub Project Town, Continuation Sheet -- 10

S. No	Parameters	Units	Ratangarh (Drainage works) Sub Project Town (RSTDSP/NAW-RAT/DR/01)								
			Date of Monitoring: 25.10.2023 & 27.10.2023								
			SWPS -1 (Near Rly Quarters)	SWPS - 2 (saraf sump well)	SWPS – 3 (Pparmana taal)	SWPS – 4 Main ginani	SWPS 5 (Near BSNL Office)	SWPS - 6 (Near Hanuman Park)	Disposal point -1 (SWPS - 3&5)	Disposal point -2 (SWPS - 1&2)	Disposal point -3 (SWPS - 4&6)
1	pH @ 25°C	mg/l	7.85	7.84	8.01	7.74	7.86	8.02	7.81	7.48	8.03
2	Arsenic (as As)	mg/l	BDL	BDL	BDL	BDL	142.25	540.93	153.48	291.99	305.09
3	Cadmium (as Cd)	mg/l	BDL	BDL	BDL	BDL	0.36	0.32	0.36	0.29	0.23
4	Chlorides as Cl	mg/l	479.17	256.43	383.71	584.28	5.63	1.83	3.29	1.66	2.27
5	Copper as Cu	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
6	Fluorides (as F)	mg/l	0.25	0.31	0.35	.30	56.37	121.47	48.77	16.91	113.73
7	Iron as Fe	mg/l	0.19	0.13	BDL	BDL	205.02	402	306.24	221.10	329.64
8	lead	mg/l	BDL	BDL	BDL	BDL	531	1085	555	604	734
9	Magnesium	mg/l	BDL	BDL	BDL	BDL	177.16	366.68	103	206	337.84
10	Nitrate	mg/l	2.08	2.57	1.90	1.83	BDL	BDL	BDL	BDL	BDL
11	Phenolic compound	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
12	Sulphate	mg/l	30.15	56.61	47.55	58.93	.12	.15	.78	.31	.34
13	Total alkalinity	mg/l	261.30	490.44	301.50	205.02	BDL	BDL	BDL	BDL	BDL
14	Total Dissolved solids	mg/l	962	914	800	915	BDL	BDL	BDL	BDL	BDL
15	Total Hardness as CaCO ₃	mg/l	206	247.20	218	177.16	BDL	BDL	BDL	BDL	BDL
16	zinc	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
17	mercury	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
18	Dissolved oxygen	mg/l	5.9	6.3	6.1	5.1	1.02	.96	.87	1.13	1.18
19	Phosphate	mg/l	0.30	0.45	0.50	0.96	BDL	BDL	BDL	BDL	BDL
20	Hexavalent Chromium	mg/l	BDL	BDL	BDL	BDL	6.3	4.9	4.2	5.9	6.5

BDL- Below Detectible Limit

Ground Water Quality Results – Bundi (Drainage works) Sub Project Town, Continuation Sheet -- 11

S. No	Parameters	Units	Town: Bundi (Drainage) RSTDSP/BUN-BHM/DR/01					
			Date of Sampling: 21.10.2023					
			Jait Sagar Nalla, Near Arriwali Marriage Garden	Jait Sagar Nalla, Near Meera Bagh Choki	City Kotwali Police Thana	Bharat Petrol Pump (Devpura)	Nainwa Road, Magistrate Colony	Batching Plant, Near Meera Road
1	pH @ 25°C	-	7.15	7.44	7.12	7.12	7.67	7.07
2	Chlorides as Cl	mg/l	41.17	99.20	134.76	224.61	87.97	162.84
3	Fluorides (as F)	mg/l	0.23	0.49	0.23	0.65	0.41	0.38
4	Nitrate as NO ₃	mg/l	2.81	1.71	1.13	1.97	1.87	2.07
5	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)
6	Sulphate as SO ₄	mg/l	6.49	38.90	24.38	50.70	37.32	41.37
7	Total Alkalinity	mg/l	207.06	190.44	324.80	234.96	178.64	306.36
8	Total Dissolved solids	mg/l	330.0	358.0	636.40	614.0	180.6	532.0
9	Total Hardness as CaCO ₃	mg/l	179.76	248.24	487.20	556.40	231.12	483.64
10	Cadmium (as Cd)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
11	Copper as Cu	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
12	Iron as Fe	mg/l	0.17	0.19	BDL (<0.10)	0.21	0.17	0.18
13	Lead (as Pb)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.17)	BDL (<0.005)	BDL (<0.005)
14	Manganese as Mn	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.005)	BDL (<0.005)
15	Mercury (as Hg)	mg/l	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)
16	Zinc as Zn	mg/l	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)
17	Arsenic (as As)	mg/l	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)
18	Phosphate as PO ₄	mg/l	0.28	0.21	1.53	0.29	0.44	1.10
19	Hexavalent Chromium as Cr+6)	mg/l	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)
20	Dissolved Oxygen	mg/l	4.1	4.90	4.7	5.0	5.2	5.1

BDL- Below Detectible Limit

Ground Water Quality Results – Bhawani Mandi (Drainage works) Sub Project Town, Continuation Sheet -- 12

S. No	Parameters	Units	Town: Bhawani Mandi (Drainage) RSTDSP/BUN-BHM/DR/01				
			Date of Sampling: 22.10.2023				
			Trimurti Colony Dag Road Pachhad	Near Baba Circle	Sadar Bazar Near Tarachand Hotel	Asharam Road Near Santi Choraya	Jawahar Colony Near Vivekanand Choraya
1	pH @ 25°C	-	7.28	7.36	7.56	7.80	7.29
2	Chlorides as Cl	mg/l	168.45	153.48	340.66	271.40	183.43
3	Fluorides (as F)	mg/l	0.29	0.35	0.49	0.46	0.60
4	Nitrate as NO ₃	mg/l	0.55	1.26	1.45	0.86	0.56
5	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)
6	Sulphate as SO ₄	mg/l	44.79	52.46	35.53	36.86	40.25
7	Total Alkalinity	mg/l	190.44	397.88	227.36	109.62	466.9
8	Total Dissolved solids	mg/l	567.0	610.0	697.0	664.0	751.0
9	Total Hardness as CaCO ₃	mg/l	513.6	509.32	564.96	226.84	496.48
10	Cadmium (as Cd)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
11	Copper as Cu	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
12	Iron as Fe	mg/l	0.39	BDL (<0.10)	0.20	0.63	0.19
13	Lead (as Pb)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.17)	BDL (<0.005)
14	Manganese as Mn	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.005)
15	Mercury (as Hg)	mg/l	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)
16	Zinc as Zn	mg/l	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)
17	Arsenic (as As)	mg/l	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)
18	Phosphate as PO ₄	mg/l	0.49	0.63	2.10	0.91	0.44
19	Hexavalent Chromium as Cr+6)	mg/l	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)
20	Dissolved Oxygen	mg/l	4.5	4.2	4.3	5.2	4.1

BDL- Below Detectible Limit

Ground Water Quality Results – Nawalgarh (Drainage works) Sub Project Town, Continuation Sheet -- 13

S. No	Parameters	Units	Town: Nawalgarh (Drainage) RSTDSP/NAW-RAT/DR/01					
			Date of Sampling: 27.10.2023					
			Near Bakra Mandi	Near Fire Station	Swamiyo Ka Jav	Near Bhagton Ka Johad	Derana Johad (Disposal Point)	Badrana Johar (Disposal Point)
1	pH @ 25°C	-	7.25	7.86	7.85	7.73	8.16	8.19
2	Chlorides as Cl	mg/l	235.84	190.91	269.53	119.79	127.27	177.81
3	Fluorides (as F)	mg/l	0.23	0.36	0.23	0.39	0.29	0.39
4	Nitrate as NO ₃	mg/l	2.57	2.65	1.70	2.30	2.84	2.02
5	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)
6	Sulphate as SO ₄	mg/l	18.93	46.59	10.53	-	9.39	7.96
7	Total Alkalinity	mg/l	227.04	507.50	219.24	336.98	178.64	316.68
8	Total Dissolved solids	mg/l	525.70	649.0	665.0	551.0	425.90	504.0
9	Total Hardness as CaCO ₃	mg/l	206.0	201.88	98.88	168.92	103.0	111.24
10	Cadmium (as Cd)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
11	Copper as Cu	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
12	Iron as Fe	mg/l	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)
13	Lead (as Pb)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.17)	BDL (<0.005)	BDL (<0.005)
14	Manganese as Mn	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.005)	BDL (<0.005)
15	Mercury (as Hg)	mg/l	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)
16	Zinc as Zn	mg/l	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)
17	Arsenic (as As)	mg/l	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)
18	Phosphate as PO ₄	mg/l	1.17	0.80	0.57	0.96	0.43	1.02
19	Hexavalent Chromium as Cr+6)	mg/l	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)
20	Dissolved Oxygen	mg/l	5.6	5.2	5.1	5.2	4.1	4.9

BDL- Below Detectible Limit

Surface Water Quality Results – Ratangarh (Drainage works) Town, Continuation Sheet -- 2

S. No	Parameters	Units	Town: Ratangarh (Drainage works) RSTDSP/NAW-RAT/DR/01								
			(Date of Monitoring: 26.10.202)								
			SWPS -1 (Near Rly Quarters)	SWPS - 2 (Saraf sump well)	SWPS – 3 (Parmana taal)	SWPS – 4 Main Ginani	SWPS - 5 (Near BSNL Office)	SWPS - 6 (Near Hanuman Park)	Disposal point -1 (SWPS - 3&5)	Disposal point -3 (SWPS - 1&2)	Disposal point -2 (SWPS - 4&6)
1	pH	-	7.27	7.55	8.11	7.65	7.75	7.25	7.95	7.11	7.63
2	Turbidity	NTU	12.0	11.0	14.0	8.0	16.0	9.6	24.0	10.0	13.40
3	Total Dissolved solids	mg/l	1595.0	1146.0	1137.0	1258.0	1509.0	1711.0	1205.0	1795.0	1825.0
4	Chlorides as Cl	mg/l	552.16	423.01	522.22	423.01	608.32	729.98	303.22	1225.0	589.60
5	Sulphate as SO ₄	mg/l	40.69	20.0	47.07	103.16	50.17	96.47	123.06	90.27	86.15
6	Total suspended solid	mg/l	24.0	10.0	20.0	14.0	24.0	18.0	15.80	25.0	18.0
7	Total Hardness as CaCO ₃	mg/l	309.0	374.92	251.32	230.72	519.12	597.40	144.20	432.60	461.44
8	Calcium as Ca	mg/l	67.70	51.19	33.02	34.67	80.91	79.26	37.97	42.93	71.0
9	Magnesium	mg/l	34.04	60.06	41.05	35.04	77.09	97.11	12.02	79.09	69.08
10	Fluorides (as F)	mg/l	0.36	0.41	0.39	0.23	0.37	0.39	0.36	0.45	0.32
11	Nitrate as NO ₃	mg/l	1.49	1.55	2.23	1.65	1.14	2.29	1.98	2.30	1.66
12	Dissolved Oxygen (DO)	mg/l	5.2	4.6	4.3	3.6	4.5	6.9	4.1	4.6	3.1
13	Biochemical Oxygen Demand (BOD - 3 days @ 27°C)	mg/l	34.50	43.50	48.0	63.0	45.0	18.0	51.0	43.50	66.0
14	Chemical Oxygen Demand (COD)	mg/l	149.76	159.74	179.71	169.72	169.72	89.85	199.68	109.82	169.72
15	Iron as Fe	mg/l	0.76	0.33	0.13	BDL (< 0.1)	BDL (< 0.1)	BDL (< 0.1)	BDL (< 0.1)	BDL (< 0.1)	BDL (< 0.1)
16	Zinc as Zn	mg/l	BDL (< 0.2)	BDL (< 0.2)	BDL (< 0.2)	BDL (< 0.2)	BDL (< 0.2)	BDL (< 0.2)	BDL (< 0.2)	BDL (< 0.2)	BDL (< 0.2)
17	Copper as Cu	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
18	Manganese as Mn	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
19	Lead (as Pb)	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
20	Arsenic (as As)	mg/l	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)
21	Boron	mg/l	BDL (< 0.2)	BDL (< 0.2)	BDL (< 0.2)	BDL (< 0.2)	BDL (< 0.2)	BDL (< 0.2)	BDL (< 0.2)	BDL (< 0.2)	BDL (< 0.2)
22	Cadmium (as Cd)	mg/l	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)	BDL (< 0.05)
23	Selenium	mg/l	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)	BDL (< 0.005)
24	Mercury (as Hg)	mg/l	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)
25	Sodium	mg/l	410.0	115.30	105.30	296.20	250.30	465.30	410.20	86.12	451.20
26	Potassium	mg/l	15.60	14.30	12.45	13.10	25.30	22.31	12.60	15.60	18.50
27	Residual free chloride	mg/l	BDL (< 2.0)	BDL (< 2.0)	BDL (< 2.0)	BDL (< 2.0)	BDL (< 2.0)	BDL (< 2.0)	BDL (< 2.0)	BDL (< 2.0)	BDL (< 2.0)
28	Cyanide	mg/l	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)
29	Aluminum	mg/l	BDL (< 0.03)	BDL (< 0.03)	BDL (< 0.03)	BDL (< 0.03)	BDL (< 0.03)	BDL (< 0.03)	BDL (< 0.03)	BDL (< 0.03)	BDL (< 0.03)
30	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)	BDL (< 0.02)

BDL - Below Detectible Limit

Surface Water Quality Results – Nawalgarh & Bundi (Drainage works) Sub Project Towns, Continuation Sheet -- 3

S. No	Parameters	Units	Town: Nawalgarh (Drainage works) RSTDSP/NAW-RAT/DR/01				Town: Bundi (Drainage) RSTDSP/BUN-BHM/DR/01
			Date of Sampling: 27.10.2023				Date of Sampling: 21.10.2023
			Near Bakra Mandi	Near Fire Station	Swamiyo ka Jav	Near Bhagton Ka Johad	Jait Sagar Lake
1	pH @ 25°C	-	7.70	8.09	7.63	7.89	7.27
2	Turbidity	NTU	17.0	21.0	18.0	14.0	2.15
3	Total Dissolved solids	mg/l	1047.0	937.0	1091.0	1133.0	438.0
4	Chlorides as Cl	mg/l	308.84	353.76	381.83	348.14	41.17
5	Sulphate as SO ₄	mg/l	30.15	27.87	26.48	28.63	11.64
6	Total Suspended solids	mg/l	22.0	20.0	27.0	19.0	19.0
7	Total Hardness as CaCO ₃	mg/l	201.88	210.12	243.08	247.20	192.60
8	Calcium (as Ca)	mg/l	34.67	41.28	51.46	64.40	36.023
9	Magnesium (as Mg)	mg/l	28.03	26.03	27.86	21.02	24.96
10	Fluorides (as F)	mg/l	0.42	0.35	0.32	0.23	0.36
11	Nitrate as NO ₃	mg/l	2.87	1.02	2.36	2.57	2.08
12	Dissolved Oxygen (DO)	mg/l	3.1	5.9	4.1	5.2	5.34
13	Biochemical Oxygen demand (BOD) 3 days @ 25° C	mg/l	66.0	24.0	51.0	34.50	33.0
14	Chemical Oxygen demand	mg/l	159.74	129.79	149.76	139.77	129.79
15	Iron	mg/l	BDL(<0.10)	BDL(<0.10)	BDL(<0.10)	BDL(<0.10)	1.18
16	Zinc as Zn	mg/l	BDL(<0.20)	BDL(<0.20)	BDL(<0.20)	BDL(<0.20)	BDL(<0.20)
17	Copper as Cu	mg/l	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)
18	Manganese as Mn	mg/l	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)
19	Lead (as Pb)	mg/l	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)
20	Arsenic as Ar	mg/l	BDL(<0.005)	BDL(<0.005)	BDL(<0.005)	BDL(<0.005)	BDL(<0.005)
21	Boron as B	mg/l	BDL(<0.2)	BDL(<0.2)	BDL(<0.2)	BDL(<0.2)	BDL(<0.2)
22	Cadmium as Cd	mg/l	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)
23	Selenium as Se	mg/l	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)
24	Mercury as Hg	mg/l	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)
25	Sodium (as Na)	mg/l	98.60	95.30	99.56	115.60	8.60
26	Potassium (as K)	mg/l	12.10	18.40	22.10	21.50	1.30
27	Total Residual Chlorine	mg/l	BDL(<0.20)	BDL(<0.20)	BDL(<0.20)	BDL(<0.20)	BDL(<0.20)
28	Cyanide as CN	mg/l	BDL(<0.02)	BDL(<0.02)	BDL(<0.02)	BDL(<0.02)	BDL(<0.02)
29	Aluminum as Al	mg/l	BDL(<0.03)	BDL(<0.03)	BDL(<0.03)	BDL(<0.03)	BDL(<0.03)

BDL- Below Detectible Limit

Surface Water Quality Monitoring Results – Nathdwara, Sagwara, Jodhpur & Bharatpur Sub Project Town, Continuation Sheet -- 4

S.No	Parameters	Units	Town: Nathdwara RSTDSP/NTD/01	Town: Jodhpur (Sewerage works) RSTDSP/JOD/01	Town: Sagwara RSTDSP/SGW/WS- WW/01	Bharatpur (City Beautification) RSTDSP/BHR/CTYBF/01	
			Date of Sampling: 03.11.2023	Date of Monitoring: 20.10.2023	(Date of Monitoring: 23-10-2023)	Date of Sampling: 19.12.2023	
			Location : WTP Nathdwara	Location: Jojari River	CWR pumping station	Shaligram Kund	Brijendra Bihari Kund
1	pH	-	6.87	8.11	7.59	7.18	7.18
2	Turbidity	NTU	< 5.0	4.60	BDL	5	6
3	Total Dissolved solids	mg/l	526.70	2759.0	380.0	3740.80	2278.50
4	Total Suspended Solids	mg/l	14.0	10.20	70.0	110.50	70.20
5	Chlorides as Cl	mg/l	127.62	597.09	54.54	1450.54	565.14
6	Fluorides (as F)	mg/l	0.18	0.76	0.90	0.31	0.31
7	Sulphate as SO ₄	mg/l	51.04	319.7	26.27	382.24	208.15
8	Nitrate as NO ₃	mg/l	14.25	23.71	7.18	42.10	32.08
9	Iron as Fe	mg/l	0.07	0.26	BDL	0.20	0.20
10	Total Hardness as CaCO ₃	mg/l	192.19	479.6	194.10	1489.79	1191.83
11	Calcium (as Ca)	mg/l	57.71	116.39	38.85	318.20	278.43
12	Magnesium (as Mg)	mg/l	11.66	45.97	23.55	34.02	24.30
13	Sodium as Na	mg/l	45.60	210.4	99.34	135.60	98.45
14	Potassium (as K)	mg/l	20.52	4.96	BDL (<1.0)	60.75	44.10
15	Zinc as Zn	mg/l	0.10	BDL (<0.2)	BDL	0.03	0.02
16	Hexavalent Chromium as Cr ⁺⁶)	mg/l	BDL	BDL (<0.2)	BDL	BDL	BDL
17	Copper as Cu	mg/l	0.06	BDL (<0.05)	BDL	0.01	BDL
18	Manganese as Mn	mg/l	BDL	BDL (<0.05)	BDL	BDL	BDL
19	Aluminium (as Al)	mg/l	BDL	BDL (<0.05)	BDL	BDL	BDL
20	Arsenic (as As)	mg/l	BDL	BDL (<0.005)	BDL	BDL	BDL
21	Boron (as B)	mg/l	BDL	BDL (<0.2)	BDL	BDL	BDL
22	Lead (as Pb)	mg/l	BDL	BDL (<0.05)	BDL	BDL	BDL
23	Cadmium (as Cd)	mg/l	BDL	BDL (<0.05)	BDL	BDL	BDL
24	Mercury (as Hg)	mg/l	BDL	BDL (<0.001)	BDL	BDL	BDL
25	Total residual chlorine	mg/l	BDL	BDL (<0.2)	BDL	BDL	BDL
26	Dissolved Oxygen (DO)	mg/l	5.20	5.94	6.27	4.00	4.50
27	Biochemical Oxygen Demand 3 days @ 25°C	mg/l	BDL	6.45	8.52	6.80	4.95
28	Chemical Oxygen Demand	mg/l	BDL	39.93	29.76	28.40	16.80
29	Cyanide (as CN)	mg/l	BDL	BDL (<0.05)	BDL	BDL	BDL
30	Selenium (as Se)	mg/l	BDL	BDL (<0.005)	BDL	BDL	BDL

BDL – Below Detectible limit



Environmental Monitoring Report

PUBLIC

Semestral Report: October 2023 – March 2024
December 2024

India: Rajasthan Secondary Towns Development Sector Project-Additional Financing

Part 4 of 4: Appendix 11 (continued) and Appendices 12 - 13

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

Asian Development Bank

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Soil Quality Monitoring Results – Jodhpur (Sewerage works) town

Sr.No	Parameters	Unit of Measurements	Town: Jodhpur sewerage (RSTDSP/JOD/01)		
			(Date of Monitoring: 20/10/2023)		
			8 Meel mandor	SPS Near Nandri	Ganesh pura
1	pH (at 25°C)	-	7.51	7.91	8.11
2	Available Nitrogen (as N)	Kg/hac	213.96	220.44	207.72
3	Available Phosphorous	Kg/hac	27.49	30.91	33.55
4	Potassium (as K)	Kg/hac.	321.51	336.93	321.51
5	Electrical Conductivity	mS/cm	0.495	0.356	0.341
6	Calcium (as Ca)	mg/kg	223.0	308.77	231.58
7	Magnesium (as Mg)	mg/kg	31.22	27.06	24.89
8	Organic matter	%	0.42	0.42	0.55
9	Soil Moisture	%	1.91	1.77	1.68
10	Sodium (as Na)	mg/kg	113.05	120.92	118.11
11	Soil Texture	-	Sandy Loam	Sandy Loam	Sandy Loam
12	Permeability	cm/S	0.0005	0.0006	0.0007
13	Oil & Grease	mg/kg	BDL (< 0.5)	BDL (< 0.5)	BDL (< 0.5)

BDL - Below Detectible limit**Soil Quality Monitoring Results – NOKHA Town
Continuation Sheet -- 2**

Sr. No	Parameters	Unit of Measurements	Town: NOKHA (RSTDSP/NKH/01)						
			Date of Sampling: 10/10/2023 TO 16/10/2023						
			AEN Camp	Charkara STP	Raisar HW	Rana Raw WH	SPS Site	STP site Madiya	Bagdi
1	pH (at 25°C)	-	7.89	8.43	7.89	7.65	8.11	8.17	8.05
2	Electrical Conductivity	mS/cm	55	104	81	50	230	167	173
3	Calcium (as Ca)	%	0.11	0.13	0.10	0.10	0.14	0.13	0.11
4	Magnesium (as Mg)	%	0.004	0.002	0.004	0.006	0.004	0.008	0.003
5	Sodium (as Na)	%	0.062	0.017	0.011	0.034	0.037	0.013	0.022
6	Potassium (as K)	%.	0.136	0.053	0.033	0.047	0.033	0.032	0.034
7	Organic Carbon	%	0.37	0.28	0.23	0.23	0.12	0.24	0.23
8	Total Nitrogen (as N)	%	0.006	0.060	0.007	0.073	0.083	0.074	0.006
9	Phoshorous	%	0.005	0.003	0.002	0.006	0.005	0.007	0.004
10	Moisture content	%	1.90	1.42	0.87	1.19	1.80	1.20	2.33
11	Oil & Grease	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL	BDL

BDL - Below Detectible limit

Soil Quality Monitoring Results - Durgapur Town
Continuation Sheet -- 3

Sl. No.	Parameters	Unit of Measurements	Town: Durgapur
			RSTDSP/DNG/WS-WW/01
			Date of Monitoring-23.10.2023
			SPS-1, Near Shree Padam Bhushan Bhogilal Circle
1	pH(at25°C)	-	7.10
2	Electrical Conductivity	mS/cm	0.316
3	Calcium (as Ca)	mg/kg	109.38
4	Magnesium(as Mg)	mg/kg	27.91
5	Sodium (as Na)	mg/kg	45.76
6	Potassium(as K)	Kg/hect.	242.19
7	Soil Texture	-	Sandy Loam
8	Total Nitrogen(as N)	Kg/hect.	53.46
9	Phosphate	Kg/hect.	11.56
10	Soil Moisture content	%	2.72
11	Permeability	cm/S	0.00149
12	Oil &Grease	mg/kg	BDL
13	Organic Matter	%	0.98

BDL - Below Detectible limit

Soil Quality Monitoring Results – Sagwara Town
Continuation Sheet -- 4

Sr.No	Parameters	Unit of Measurements	Town: Sagwara	
			(RSTDSP/SGW/WS-WW/01)	
			Date of Monitoring : 24.10.2023	
			STP Site	CWR pumping station
1	pH(at25°C)	-	8.10	7.12
2	Electrical Conductivity	mS/cm	0.512	0.419
3	Calcium (as Ca)	mg/kg	79.58	143.56
4	Magnesium(as Mg)	mg/kg	33.62	4.47
5	Sodium(as Na)	mg/kg	27.10	43.97
6	Potassium(as K)	Kg/hect.	117.29	111.73
7	Organic matter	%	0.79	0.89
8	Soil Texture	-	Sandy Loam	Sandy Loam
9	Total Nitrogen(as N)	Kg/hect.	15.37	34.62
10	Phosphate(asp)	Kg/hect.	9.13	5.49
11	Moisture content	%	4.22	4.56
12	Permeability	cm/S	0.00198	0.0013
13	Oil & Grease	mg/kg	BDL	BDL

BDL - Below Detectible limit

Soil Quality Results – Bharatpur (Sewerage Works) Sub Project Town
Continuation Sheet -- 5

Sr. No	Parameters	Unit of Measurements	Town: Bharatpur (Sewerage Works) RSTDSP/BHR/WW/01		
			Date of Sampling: 16.12.2023		
			STP-01	SPS-04 (2.25 MLD, Zone 4)	SPS-03 (1.65 MLD, Zone 3)
1	pH (at 25°C)	-	8.29	8.38	8.05
2	Available Nitrogen as N	kg/ha	227.47	254.29	292.31
3	Potassium as K	kg/ha	84.97	89.49	93.67
4	Electrical Conductivity	mS/cm	0.359	0.316	0.278
5	Calcium as Ca	mg/kg	197.77	230.83	222.50
6	Magnesium as Mg	mg/kg	22.51	50.00	49.42
7	Organic Matter	%	1.57	0.37	0.60
8	Soil Moisture	%	12.10	10.71	11.40
9	Sodium as Na	mg/kg	61.89	71.91	70.69
10	Soil Texture	--	Sandy Loam	Sandy Loam	Sandy Loam
11	Permeability	Cm/sec.	0.0006	0.0009	0.0008
12	Oil & Grease	mg/kg	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)
13	Phosphate	kg/ha	12.26	16.63	13.48

BDL- Below Detectible Limit

Soil Quality Results – Bundi (Wastewater & Water Supply)
Continuation Sheet -- 6

Sr. No	Parameters	Unit of Measurements	Town: Bundi (Wastewater & Water Supply) RSTDSP/BUN/01			
			Date of Sampling: 27.10.2023			
			Vikas nagar OSSR	STP Site, Ramganj Balaji	CWR, Nainwa Road	Nahar Ka Chohatta
1	pH (at 25°C)	-	7.29	7.65	7.28	7.58
2	Electrical Conductivity	µS/cm	740.0	620.0	560.0	320.0
3	Soil Moisture	%	22.69	21.67	27.62	25.17
4	Total Nitrogen (TKN)	%	0.04	0.08	0.05	0.04
5	Sodium as Na	kg/ha	120.36	156.32	136.57	143.95
6	Potassium as K	kg/ha	67.59	95.78	82.64	90.38
7	Organic Matter	%	3.58	3.20	4.15	3.28
8	Calcium as Ca	mg/kg	15.25	14.26	28.54	22.36
9	Magnesium as Mg	mg/kg	6.34	9.36	3.62	10.05
10	Phosphorous	mg/kg	128.47	163.75	174.96	182.24
11	Oil & Grease	mg/kg	BDL	BDL	BDL	BDL
12	Permeability	cm/hr.	7.80	8.10	7.40	7.30
13	Soil Texture	--	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
	Sand	%	70.0	66.50	72.60	67.20
	Silt	%	12.0	14.20	10.20	15.40
	Clay	%	18.0	19.30	17.20	17.40

BDL- Below Detectible Limit

Soil Quality Monitoring Results – Nathdwara & Nimbahera (Water Supply) Sub Project Town, Continuation Sheet -- 7

Sr. No	Parameters	Unit of Measurements	Town: Nathdwara (RSTDIP/NTD/01)				Town: Nimbahera (RSTDIP/NBH/01)		
			Date of Sampling: 03.11.2023				Date of Sampling: 29.10.2023		
			WTP Nathdwara	OHSR 1500 KL	CRMC Imli Chowk	Kothariya Road	WTP Site Araniya Joshi	Atal Nagar Housing Board Colony	CRMC Building
1	pH (at 25°C)	-	7.59	7.82	7.70	7.62	8.02	7.85	8.02
2	Electrical Conductivity	µS/cm	620.0	590.0	650.0	500.0	480	420	450
3	Soil Moisture content	%	15.40	14.93	8.21	11.40	15.20	12.93	14.38
4	Available Nitrogen (as N)	%.	0.05	0.05	0.04	0.05	0.06	0.04	0.07
5	Sodium (as Na)	mg/kg	136.42	128.74	117.54	132.50	162.50	138.74	156.30
6	Potassium (as K)	mg/kg	91.48	84.23	62.74	79.62	112.35	85.46	110.47
7	Organic Matter	%	3.27	4.20	3.65	4.96	3.20	3.92	3.42
8	Calcium (as Ca)	mg/kg	15.47	7.20	12.60	7.64	20.64	27.45	65.28
9	Magnesium (as Mg)	mg/kg	8.76	1.82	3.50	3.20	6.80	6.12	29.35
10	Available Phosphorus	mg/kg	42.14	36.94	42.58	95.43	25.30	87.62	137.20
11	Oil & Grease	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL	BDL
12	Permeability	cm/hr	10.20	6.80	12.0	10.0	6.20	8.20	9.30
13	Soil Texture	-	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
	Sand	%	64.0	66.4	70.0	62.40	66.40	71.20	72.50
	Silt	%	20.0	17.50	14.20	20.60	19.20	19.50	9.40
	Clay	%	16.0	16.10	15.80	17.0	14.40	16.10	18.10

BDL - Below Detectible limit

Soil Quality Results – Jodhpur (Drainage) Town, Continuation Sheet -- 8

Sr. No	Parameters	Unit of Measurements	Town : Jodhpur RSTDSP/JOD/02						
			Date of Sampling : 13.10.2023						
			SMCC site plant area	Banar Road Nandri	Near Derby Colony	Near Jajori River Prem nagar	Near railway Line Banar	Opposite Khangta Hospital Banar	Salawas Road
1	pH (at 25°C)	-	7.92	9.46	8.28	9.75	9.02	8.91	10.28
2	Electrical Conductivity	mS/cm	0.465	0.230	0.485	3.90	0.120	0.685	0.180
3	Soil Texture (Sand)	%	73.21	88.56	85.47	81.45	87.52	81.25	90.12
	Silt	%	18.41	6.74	6.55	11.56	5.25	8.70	4.45
	Clay	%	8.38	4.70	7.98	6.99	7.23	10.05	5.43
4	Water Holding capacity	%	37.48	31.52	27.89	36.52	36.28	35.45	30.98
5	Soil Moisture	%	0.53	1.40	0.43	1.59	1.57	1.64	1.25
6	Sodium as Na	meq/lit	0.82	1.06	2.19	1.98	0.20	1.96	1.10
7	Potassium as K	meq/lit	0.57	0.48	0.98	0.92	0.31	0.33	0.35
8	Chloride as Cl	meq/lit	1.6	1.3	2.6	28.9	1.2	2.0	0.2
9	Calcium as Ca	meq/lit	1.4	0.55	1.55	10.8	1.0	5.0	1.3
10	Magnesium as Mg	meq/lit	0.55	1.2	0.6	2.2	0.8	0.95	0.25
11	Available Nitrogen as N	meq/lit	1.80	0.29	1.40	6.82	0.19	0.47	0.40
12	Phosphate	mg/kg	38.45	1.36	4.38	4.96	10.4	66.0	3.54
13	Organic Carbon	%	0.63	0.18	0.064	0.044	0.20	0.43	0.071
14	Organic Matter	%	1.08	0.30	0.11	0.076	0.34	0.74	0.12

BDL- Below Detectible Limit

Soil Quality Results –Ratangarh (Drainage) Town, Continuation Sheet -- 9

Sr. No	Parameters	Unit of Measurements	Ratangarh (Drainage) RSTDSP/NAW-RAT/DR/01								
			Date of Sampling : 25.10.2023								
			SWPS -1 (Near Rly Quarters)	SWPS - 2 (Saraf Sump Well)	SWPS -3 (Parmana Taal)	SWPS -4 (Main Ginani)	SWPS 5 (Near BSNL Office)	SWPS 6 (Near Hanuman Park)	Disposal point -1 (SWPS - 3&5)	Disposal point - 3(SWPS - 1&2)	Disposal point - 2(SWPS - 4&6)
1	pH (at 25°C)	-	8.01	7.65	7.45	7.85	7.41	7.56	7.71	8.11	8.11
2	Available Nitrogen	kg/ha	152.78	178.25	127.16	152.78	229.17	214.91	127.32	229.17	203.71
3	Potassium as K	kg/ha	140.93	135.71	135.78	136.19	142.23	134.92	127.67	131.19	131.59
4	Electrical Conductivity	mS/cm	0.652	0.475	0.376	0.396	0.375	0.425	0.415	0.369	0.362
5	Calcium as Ca	mg/kg	214.42	171.54	223.0	188.69	180.11	214.42	162.96	214.42	248.73
6	Magnesium as Mg	mg/kg	40.59	73.90	41.63	52.56	56.72	29.66	48.40	28.10	45.27
7	Organic Matter	%	0.69	0.74	0.75	0.73	0.82	0.81	0.85	0.86	0.84
8	Soil Moisture	%	0.78	0.78	0.80	0.92	1.0	0.60	0.65	1.06	1.23
9	Sodium as Na	mg/kg	90.88	62.57	60.61	57.81	61.0	56.28	70.99	68.91	83.69
10	Soil Texture	--	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
11	Permeability	Cm/sec.	0.0006	0.0007	0.0008	0.0009	0.0006	0.0007	0.0008	0.0009	0.0006
12	Oil & Grease	mg/kg	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)
13	Phosphate	kg/ha	21.69	31.92	26.55	30.58	29.50	36.48	33.80	29.50	39.97

BDL- Below Detectible Limit

Soil Quality Results – Nawalgarh (Drainage) Town, Continuation Sheet -- 10

Sr. No	Parameters	Unit of Measurements	Nawalgarh (Drainage) RSTDSP/NAW-RAT/DR/01					
			Date of Sampling : 27.10.2023 & 28.10.2023					
			Near Bakra Mandi	Near Fire Station	Swamiyo Ka Jav	Near Bhagton Ka Johad	Derana Johad (Disposal Point)	Badrana Johar (Disposal Point)
1	pH (at 25°C)	-	7.25	7.85	8.11	7.55	8.01	7.65
2	Available Nitrogen	kg/ha	145.32	178.25	127.09	152.51	177.96	127.32
3	Potassium as K	kg/ha	138.10	125.20	142.96	144.26	145.38	142.03
4	Electrical Conductivity	mS/cm	0.310	0.297	0.285	0.225	0.375	0.285
5	Calcium as Ca	mg/kg	175.30	132.26	193.98	211.62	220.44	141.08
6	Magnesium as Mg	mg/kg	45.08	38.51	37.47	52.56	60.37	47.88
7	Organic Matter	%	0.85	0.501	0.53	0.66	0.70	0.67
8	Soil Moisture	%	1.02	0.65	0.83	0.92	1.19	1.13
9	Sodium as Na	mg/kg	52.60	68.86	93.82	84.0	84.57	88.85
10	Soil Texture	--	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
11	Permeability	Cm/sec.	0.0007	0.0004	0.0006	0.0006	0.0005	0.0008
12	Oil & Grease	mg/kg	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)
13	Phosphate	kg/ha	32.56	34.81	39.10	42.85	31.06	44.99

BDL- Below Detectible Limit

Soil Quality Results –Bhawani Mandi (Drainage) Town, Continuation Sheet -- 11

Sr. No	Parameters	Unit of Measurements	Town: Bhawani Mandi (Drainage) RSTDSP/BUN-BHM/DR/01				
			Date of Sampling : 22.10.2023				
			Trimurti Colony Dag Road Pachhad	Near Baba Circle	Sadar Bazar Near Tarachand Hotel	Asharam Road Near Santi Choraya	Jawahar Colony Near Vivekanand Choraya
1	pH (at 25°C)	-	7.65	7.81	7.95	7.81	8.11
2	Available Nitrogen	kg/ha	343.76	305.57	356.50	331.03	267.37
3	Potassium as K	kg/ha	206.75	228.51	230.78	231.64	232.75
4	Electrical Conductivity	mS/cm	0.296	0.245	0.278	0.195	0.285
5	Calcium as Ca	mg/kg	35.27	26.45	70.54	61.72	17.63
6	Magnesium as Mg	mg/kg	5.35	10.70	5.35	8.02	8.02
7	Organic Matter	%	0.54	0.77	0.46	0.53	0.67
8	Soil Moisture	%	0.95	1.04	1.54	1.71	1.51
9	Sodium as Na	mg/kg	88.41	90.08	94.0	90.48	80.92
10	Soil Texture	--	Sandy Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam
11	Permeability	Cm/sec.	0.0006	0.0008	0.0009	0.0007	0.0006
12	Oil & Grease	mg/kg	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)
13	Phosphate	kg/ha	16.63	20.11	22.80	21.46	19.04

BDL- Below Detectible Limit

Soil Quality Results –Bundi (Drainage) Town, Continuation Sheet -- 12

Sr. No	Parameters	Unit of Measurements	Town: Bundi Drainage (Drainage) RSTDSP/BUN-BHM/DR/01					
			Date of Sampling : 21.10.2023					
			Jait Sagar Nalla, Near Arriwali Marriage Garden	Jait Sagar Nalla, Near Meera Bagh Choki	City Kotwali Police Thana	Bharat Petrol Pump (Devpura)	Nainwa Road, Magistrate Colony	Batching Plant, Near Meera Road
1	pH (at 25°C)	-	7.65	7.85	7.95	8.11	8.01	7.69
2	Available Nitrogen	kg/ha	305.57	331.03	340.93	267.37	343.76	305.57
3	Potassium as K	kg/ha	172.31	178.97	178.07	211.46	201.83	218.33
4	Electrical Conductivity	mS/cm	0.195	0.295	0.365	0.265	0.261	0.234
5	Calcium as Ca	mg/kg	8.81	26.45	44.08	52.90	61.72	79.35
6	Magnesium as Mg	mg/kg	5.35	5.35	6.17	4.81	6.95	5.88
7	Organic Matter	%	0.50	0.43	0.51	0.75	0.80	0.44
8	Soil Moisture	%	1.92	0.93	1.03	0.98	1.17	1.18
9	Sodium as Na	mg/kg	105.89	104.49	95.39	97.0	77.23	87.62
10	Soil Texture	--	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam
11	Permeability	Cm/sec.	0.0006	0.0007	0.0008	0.0007	0.0006	0.0009
12	Oil & Grease	mg/kg	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)
13	Phosphate	kg/ha	18.71	16.83	17.34	22.51	21.45	23.57

BDL- Below Detectible Limit

Air Monitoring Results – 1st Quarter of 2024 (January 2024 to March 2024)

Quarter of 2024 (January 2024 to March 2024)								
S.No.	Package / Town / Monitoring Location	Monitoring date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)	
1	RSTDSP/NAW-RAT/DR/01							
	Ratangarh Town							
	SWPS – 1 (Near Rly Quarters)	29.01.2024 to 31.01.2024	70.94	30.32	10.12	15.40	0.66	
	SWPS - 2 (Saraf Sump well)		72.18	24.61	10.45	14.91	0.62	
	SWPS – 3 (Parmana Taal)		65.76	23.65	11.01	14.86	0.54	
	SWPS – 4 (Main Ginani)		72.04	23.31	10.85	15.13	0.56	
	Disposal Point – 1 (SWPS 3 & 5)		63.20	25.42	9.90	14.70	0.61	
	SWPS – 5 (Near BSNL Office)		67.50	25.02	9.87	16.15	0.56	
	SWPS – 6 (Near Hanuman Park)		73.09	23.40	9.90	16.21	0.48	
	Disposal Point – 3 (SWPS 1 & 2)		60.41	24.77	9.85	15.69	0.56	
	Disposal Point – 2 (SWPS 4 & 6)		64.20	23.13	9.95	14.85	0.59	
2	RSTDSP/BUN/01							
	Bundi (Water Supply & Sewerage Works)							
	STP Site, Ramganj Balaji	15.03.2024 to 16.03.2024	81.52	39.12	8.01	24.79	0.71	
	CWR, Nainwa Road		76.12	32.51	7.56	23.15	0.69	
	Nahar Ka Chohatta		79.12	35.23	8.01	23.12	0.74	
	WTP, Jhakhmood		72.21	22.36	7.31	22.25	0.64	
3	RSTDSP/BUN-BHM/DR/01							
	Bundi (Drainage Works)							
	Jait Sagar Nalla, Near Arriwali Marriage Garden	06.02.2024 to 08.02.2024	65.32	32.92	7.46	12.98	0.57	
	Jait Sagar Nalla, Near Meera Bagh Choki		54.67	26.33	6.02	11.40	0.59	
	City Kotwali Police Thana		61.09	33.61	7.72	12.10	0.49	
	Bharat Petrol Pump (Devpura)		64.10	27.89	8.26	14.59	0.68	
	Nainwa Road, Magistrate Colony		54.0	25.37	8.0	12.67	0.52	
Batching Plant, Near Meera Road	60.22		23.24	8.85	12.02	0.58		
4	RSTDSP/BUN-BHM/DR/01							
	Bhawani Mandi (Drainage Works)							
	Trimurti Colony Dag Road Pachhad	28.03.2024 to 29.03.2024	58.77	24.26	12.10	18.05	0.56	
	Near Baba Circle		64.30	23.65	10.41	15.73	0.54	
	Sadar Bazar Near Tarachand Hotel		61.26	25.90	10.45	16.01	0.59	
	Asharam Road Near Santi Choraya		63.07	21.27	9.11	16.00	0.56	
Jawahar Colony Near Vivekanand Choraya	64.76		23.15	9.80	15.61	0.64		
5	RSTDSP/NAW-RAT/DR/01							
	Nawalgarh (Drainage Works)							
	Near Bakra Mandi	19.03.2024 to 20.03.2024	65.27	23.14	8.12	14.32	0.65	
	Near Fire Station		66.12	25.42	10.22	16.31	0.71	
	Swamiyo Ka Jav		61.31	24.41	8.10	16.64	0.56	
	Near Bhagton Ka Johad		64.31	26.15	7.42	17.35	0.67	
	Derana Johad (Disposal Point)		57.21	23.12	9.21	13.61	0.52	
Badrana Johar (Disposal Point)	64.31		24.20	10.19	17.15	0.62		
6	RSTDSP/JOD/01							
	Jodhpur (Sewerage Works)							
	STP Gujrawas	16.02.2024 to 17.02.2024	63.55	23.74	8.03	12.06	0.66	
	SPS Nandri		65.40	25.80	7.60	12.89	0.59	
7	RSTDSP/JOD/02							
	Jodhpur (Drainage Works)							
	Near Derby Colony	05.02.2024 to 07.02.2024	94.0	53.0	10.2	20.4	--	
	Near Junao Complex		96.0	54.0	16.5	25.1	--	
	SMCC Site Plant Area		85.0	48.0	8.15	15.25	--	
STP Plant , Salawas	108.0		59.0	16.25	27.14	--		
8	RSTDSP/NBH/01							
	Nimbahera (Water Supply Works)							
	Near RUIDP Camp Office	18.03.2024 to 19.03.2024	80.16	34.78	8.68	20.52	0.70	
	Near Guard Room WTP, Arniya Joshi		82.56	38.18	8.02	24.56	0.68	
	Near Main Gate, CWR, BR College		78.84	34.12	8.16	22.68	0.72	
9	RSTDSP/NTD/01							

	Nathdwara (Water Supply Works)						
	WTP, Nand Samand	20.03.2024 to 21.03.2024	78.12	32.40	8.44	22.68	0.66
	RMC Plant		80.56	32.78	8.60	24.12	0.68
	300 KL, OSHR Bhandri Bawbari		82.34	38.62	8.12	24.76	0.62
	RTDC Road	76.42	34.56	8.38	23.46	0.60	
10	RSTDSP/NKH/01						
	Nokha (Water Supply & Sewerage Works)						
	SPS	01.01.2024 to 02.01.2024	72.56	30.78	8.63	16.10	0.48
	Raiser Head Works		75.25	33.96	10.20	22.10	0.52
	AEN Campus, Nanuwali Gate		71.20	29.36	8.45	16.72	0.52
	Ranarao (WH)	65.36	28.74	8.10	15.10	0.55	
	Charkara STP (5 MLD)	70.40	28.36	7.96	15.20	0.42	
	Water Distribution Network, Zone 1, Near Bhato Ki Tanki	71.25	28.20	7.52	15.96	0.49	
11	Dungarpur Town						
	RSTDSP/DNG/WS-WW/01						
	Near Kendrive College	05.03.2024	78.69	32.12	6.42	8.24	BDL
	Pragati Nagar Near Jain Temple		78.47	28.52	5.54	7.46	BDL
	Near Shahstri Colony		68.54	26.48	5.42	7.59	BDL
12	Sagwara Town						
	RSTDSP/SGW/WS-WW/01						
	CWR Pumping Station	05.03.2024	54.26	20.12	6.14	8.20	BDL
	Near Indian Oil Petrol Pump Punarwas Colony (1.0 MLD)		58.62	18.62	10.24	6.58	BDL
13	Balotra Town						
	RSTDSP/BLT/WS-WW/01						
	CRMC Building Samadary Road	01.03.2024 to	77.71	25.13	8.65	12.10	0.66
	Sewer Line Zone 02 Ward No. 37		74.55	25.53	8.49	11.89	0.70
	CRMC & MCC Building Luni River HW	02.03.2024	75.11	26.20	8.48	13.95	0.73
14	Barmer Town						
	RSTDSP/BAR/WW/01						
	Kalam Ashram Road	02.03.2024 to	74.99	26.29	8.53	14.0	0.69
	Saharam Nagar Nehru Road		72.07	23.74	9.05	13.48	0.54
	CRMC Building Mahavir Nagar	03.03.2024	78.45	24.94	8.96	13.11	0.57
15	Jaisalmer Town						
	RSTDSP/JSL/CTYBF/01						
	Near Uper Pal	27.03.2024	128.75	32.46	6.37	29.41	0.83
16	Sagwara Town						
	RSTDSP/SGR/CTYBF/01						
	Temple Back Side	28.03.2024	92.34	36.58	6.23	15.64	0.69

Noise Monitoring Results – 1st Quarter of 2024 (January 2024 to March 2024)

Noise Monitoring Results - Quarter 01 2024 (January 2024 to March 2024)				
S.No.	Package / Town / Monitoring Location	Monitoring date	Noise Level Leq (dB(A))	
			Day time	Night time
1	RSTDSP/NAW-RAT/DR/01			
	Ratangarh Town			
	SWPS – 1 (Near Rly Quarters)	29.01.2024 to 31.01.2024	63.52	52.65
	SWPS - 2 (Saraf Sump well)		60.42	46.45
	SWPS – 3 (Parmana Taal)		60.14	48.36
	SWPS – 4 (Main Ginani)		61.36	51.60
	Disposal Point – 1 (SWPS 3 & 5)		59.14	49.69
	SWPS – 5 (Near BSNL Office)		65.56	47.60
	SWPS – 6 (Near Hanuman Park)		62.80	50.14
	Disposal Point – 3 (SWPS 1 & 2)		62.30	51.50
	Disposal Point – 2 (SWPS & 6)		63.50	54.20
2	RSTDSP/BUN/01			
	Bundi (Water Supply & Sewerage Works)			
	STP Site, Ramganj Balaji	15.03.2024 to 16.03.2024	59.9	44.2
	CWR, Nainwa Road		57.0	42.3
	Nahar Ka Chohatta		65.1	44.2
	WTP, Jhakhmood		52.1	39.4
3	RSTDSP/BUN-BHM/DR/01			
	Bundi (Drainage Works)			
	Jait Sagar Nalla, Near Arriwali Marriage Garden	06.02.2024 to 08.02.2024	64.30	51.30
	Jait Sagar Nalla, Near Meera Bagh Choki		65.50	52.12
	City Kotwali Police Thana		70.25	60.35
	Bharat Petrol Pump (Devpura)		62.08	54.07
	Nainwa Road, Magistrate Colony		65.40	42.60
	Batching Plant, Near Meera Road		62.60	49.62
4	RSTDSP/BUN-BHM/DR/01			
	Bhawani Mandi (Drainage Works)			
	Trimurti Colony Dag Road Pachhad	28.03.2024 to 29.03.2024	66.20	45.35
	Near Baba Circle		60.40	48.14
	Sadar Bazar Near Tarachand Hotel		65.31	49.62
	Asharam Road Near Santi Choraya		67.20	53.60
	Jawahar Colony Near Vivekanand Choraya		65.90	52.62
5	RSTDSP/NAW-RAT/DR/01			
	Nawalgarh (Drainage Works)			
	Near Bakra Mandi	19.03.2024 to 20.03.2024	58.21	51.40
	Near Fire Station		62.15	52.60
	Swamiyo Ka Jav		63.15	50.20
	Near Bhagton Ka Johad		60.15	50.25
	Derana Johad (Disposal Point)		62.40	51.60
	Badrana Johar (Disposal Point)		63.15	53.14
6	RSTDSP/JOD/01			
	Jodhpur (Sewerage Works)			
	STP Gujrawas	16.02.2024	61.25	49.65
	SPS Nandri	to 17.02.2024	62.50	47.63
7	RSTDSP/JOD/02			
	Jodhpur (Drainage Works)			
	Near Derby Colony	05.02.2024 to 07.02.2024	59.1	34.7
	Near Junao Complex		66.2	37.4
	SMCC Site Plant Area		63.2	34.2
	STP Plant , Salawas		67.4	44.8
8	RSTDSP/NBH/01			
	Nimbahera (Water Supply Works)			
	Near RUIDP Camp Office	18.03.2024	65.0	41.8

	Near Guard Room WTP, Arniya Joshi	To	64.0	44.4	
	Near Main Gate, CWR, BR College	19.03.2024	56.4	40.6	
9	RSTDSP/NTD/01				
	Nathdwara (Water Supply Works)				
	WTP, Nand Samand	20.03.2024	60.20	42.60	
	RMC Plant		62.40	44.20	
	300 KL, OSHR Bhandri Bawbari	To	66.60	46.40	
	RTDC Road	21.03.2024	58.20	42.00	
10	RSTDSP/NKH/01				
	Nokha (Water Supply & Sewerage Works)				
	SPS	01.01.2024 to 02.01.2024	54.10	42.36	
	Raiser Head Works		60.32	44.25	
	AEN Campus, Nanuwali Gate		54.20	40.10	
	Ranarao (WH)		63.89	51.36	
	Charkara STP (5 MLD)		68.78	54.22	
	Water Distribution Network, Zone 1, Near Bhato Ki Tanki		60.36	46.11	
11	Dungarpur Town				
	RSTDSP/DNG/WS-WW/01				
	Near Kendrive College	05.03.2024	70.45	63.41	
	Pragati Nagar Near Jain Temple		62.40	56.16	
	Near Shahstri Colony		67.20	60.48	
12	Sagwara Town				
	RSTDSP/SGW/WS-WW/01				
	CWR Pumping Station	05.03.2024	64.5	58.1	
	Near Indian Oil Petrol Pump Punarwas Colony (1.0 MLD)		60.4	54.4	
	13		Balotra Town		
RSTDSP/BLT/WS-WW/01					
CRMC Building Samadary Road		01.03.2024 to	62.50	42.30	
Sewer Line Zone 02 Ward No. 37			61.41	43.22	
CRMC & MCC Building Luni River HW		02.03.2024	64.35	44.10	
14	Barmer Town				
	RSTDSP/BAR/WW/01				
	Kalam Ashram Road	01.03.2024 to	62.14	43.15	
	Saharam Nagar Nehru Road		65.25	45.31	
	CRMC Building Mahavir Nagar	03.03.2024	64.25	47.15	
15	Jaisalmer Town				
	RSTDSP/JSL/CTYBF/01				
	Near Café Back Side	27.03.2024	52.8	48.3	
16	Sagwara (City Beautification Suu Project) Town				
	RSTDSP/SGR/CTYBF/01				
	Near Masaniya Lake	28.03.2024	59.4	54.5	

Ground Water Quality Results – Nokha (Water Supply & Sewerage works)

S. No	Parameters	Units	Nokha (Water Supply) RSTDSP/NKH/01				
			Date of Sampling: 04.01.2024				
			AEN Campus, Nanuwali Gate	Bagdi (HW)	Raiser	Ranarao	SPS
1	pH @ 25°C	-	7.48	7.38	7.55	7.16	7.52
2	Chlorides as Cl	mg/l	735.0	830.0	624.0	324.0	311.0
3	Fluorides (as F)	mg/l	0.6	0.8	0.5	0.7	0.6
4	Nitrate as NO ₃	mg/l	24.0	16.0	20.0	21.0	14.0
5	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL	BDL	BDL	BDL	BDL
6	Sulphate as SO ₄	mg/l	289.0	218.0	140.0	65.0	49.0
7	Total Alkalinity	mg/l	372.0	215.0	383.0	347.0	294.0
8	Total Dissolved solids	mg/l	1202.0	1505.0	1157.0	1055.0	1019.0
9	Total Hardness as CaCO ₃	mg/l	348.0	321.0	354.0	252.0	324.0
10	Cadmium (as Cd)	mg/l	BDL	BDL	BDL	BDL	BDL
11	Copper as Cu	mg/l	BDL	BDL	BDL	BDL	BDL
12	Iron as Fe	mg/l	0.005	0.005	0.006	0.005	0.005
13	Lead (as Pb)	mg/l	BDL	BDL	BDL	BDL	BDL
14	Manganese as Mn	mg/l	BDL	BDL	BDL	BDL	BDL
15	Mercury (as Hg)	mg/l	BDL	BDL	BDL	BDL	BDL
16	Zinc as Zn	mg/l	BDL	BDL	BDL	BDL	BDL
17	Arsenic (as As)	mg/l	BDL	BDL	BDL	BDL	BDL
18	Phosphate as PO ₄	mg/l	0.06	0.08	0.08	0.08	0.06
19	Hexavalent Chromium as Cr+6)	mg/l	BDL	BDL	BDL	BDL	BDL
20	Dissolved Oxygen	mg/l	6.6	6.3	6.2	7.1	7.2

BDL- Below Detectible Limit

Ground Water Quality Results – Jodhpur (Drainage works) sub project town**Continuation Sheet -- 2**

S. No	Parameters	Units	Town: Jodhpur (Drainage) RSTDSP/JOD/02			
			Date of Sampling: 06.02.2024 to 07.02.2024			
			Near Derby Colony	Near Juno Ki Dhani	SMCC Site Plant	STP Plant, Salawas
1	pH @ 25°C	-	8.26	7.90	7.53	8.07
2	Chlorides as Cl	mg/l	82.0	521.0	523.0	477.0
3	Fluorides (as F)	mg/l	0.08	0.90	1.28	4.56
4	Nitrate as NO ₃	mg/l	38.0	165.0	150.0	200.0
5	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL	BDL	BDL	BDL
6	Sulphate as SO ₄	mg/l	6.0	50	90	230
7	Total Alkalinity	mg/l	270.0	580.0	200.0	685.0
8	Total Dissolved solids	mg/l	475.0	1790.0	1380.0	2115.0
9	Total Hardness as CaCO ₃	mg/l	122.0	177.0	337.0	120.0
10	Cadmium (as Cd)	mg/l	BDL	BDL	BDL	BDL
11	Copper as Cu	mg/l	BDL	BDL	BDL	BDL
12	Iron as Fe	mg/l	0.01	0.03	0.02	0.07
13	Lead (as Pb)	mg/l	BDL	BDL	BDL	BDL
14	Manganese as Mn	mg/l	BDL	BDL	BDL	BDL
15	Mercury (as Hg)	mg/l	BDL	BDL	BDL	BDL
16	Zinc as Zn	mg/l	BDL	BDL	BDL	BDL
17	Arsenic (as As)	mg/l	BDL	BDL	BDL	BDL
18	Phosphate as PO ₄	mg/l	0.53	4.78	5.80	7.62
19	Hexavalent Chromium as Cr+6)	mg/l	BDL	BDL	BDL	BDL
20	Dissolved Oxygen	mg/l	6.14	6.03	6.30	5.70
21	Calcium (Ca)	mg/l	33.0	40.0	90.0	17.0
22	Magnesium	mg/l	9.80	19	27	19
23	Turbidity	NTU	ND	ND	ND	1.0
24	Sodium	mg/l	140.0	610.0	365.0	755.0
25	Potassium	mg/l	--	1.75	13.50	2.75

BDL- Below Detectible Limit

Ground Water Quality Results – Bundi (Drainage works) Sub Project Town, Continuation Sheet -- 3

S. No	Parameters	Units	Town: Bundi (Drainage) RSTDSP/BUN-BHM/DR/01					
			Date of Sampling: 07.02.2024					
			Jait Sagar Nalla, Near Arriwali Marriage Garden	Jait Sagar Nalla, Near Meera Bagh Choki	City Kotwali Police Thana	Bharat Petrol Pump (Devpura)	Nainwa Road, Magistrate Colony	Batching Plant, Near Meera Road
1	pH @ 25°C	-	7.65	7.25	7.95	7.85	7.95	7.25
2	Chlorides as Cl	mg/l	49.77	89.97	143.57	201.00	93.80	157.95
3	Fluorides (as F)	mg/l	0.27	0.30	.031	0.36	0.51	0.31
4	Nitrate as NO ₃	mg/l	2.02	2.02	2.16	2.15	2.27	1.41
5	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)
6	Sulphate as SO ₄	mg/l	10.90	30.15	18.25	36.54	23.77	30.15
7	Total Alkalinity	mg/l	228.48	171.36	363.12	265.20	183.07	363.12
8	Total Dissolved solids	mg/l	340.00	350.00	520.00	650.00	320.00	570.50
9	Total Hardness as CaCO ₃	mg/l	186.12	559.44	315.84	406.08	214.32	383.52
10	Cadmium (as Cd)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
11	Copper as Cu	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
12	Iron as Fe	mg/l	0.12	0.15	0.11	0.17	0.13	0.11
13	Lead (as Pb)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.17)	BDL (<0.005)	BDL (<0.005)
14	Manganese as Mn	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.005)	BDL (<0.005)
15	Mercury (as Hg)	mg/l	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)
16	Zinc as Zn	mg/l	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)
17	Arsenic (as As)	mg/l	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)
18	Phosphate as PO ₄	mg/l	0.51	0.42	0.54	0.37	0.29	0.83
19	Hexavalent Chromium as Cr+6)	mg/l	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)
20	Dissolved Oxygen	mg/l	6.1	5.2	5.1	4.5	5.6	4.6

BDL- Below Detectible Limit

Ground Water Quality Results – Jodhpur (Sewerage Works) Sub Project town**Continuation Sheet -- 4**

S. No	Parameters	Units	Jodhpur (Sewerage Works) RSTDSP/JOD/01	
			Date of Sampling: 16.02.2024	
			STP Gujrawas	SPS Nandri
1	pH @ 25°C	-	7.85	7.25
2	Chlorides as Cl	mg/l	67.00	74.65
3	Fluorides (as F)	mg/l	0.28	0.27
4	Nitrate as NO ₃	mg/l	1.36	1.22
5	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL (<0.10)	BDL (<0.10)
6	Sulphate as SO ₄	mg/l	13.30	23.57
7	Total Alkalinity	mg/l	199.92	187.68
8	Total Dissolved solids	mg/l	374.0	313.30
9	Total Hardness as CaCO ₃	mg/l	135.36	146.64
10	Cadmium (as Cd)	mg/l	BDL (<0.05)	BDL (<0.05)
11	Copper as Cu	mg/l	BDL (<0.05)	BDL (<0.05)
12	Iron as Fe	mg/l	0.15	0.18
13	Lead (as Pb)	mg/l	BDL (<0.05)	BDL (<0.05)
14	Manganese as Mn	mg/l	BDL (<0.05)	BDL (<0.05)
15	Mercury (as Hg)	mg/l	BDL (<0.001)	BDL (<0.001)
16	Zinc as Zn	mg/l	BDL (<0.20)	BDL (<0.20)
17	Arsenic (as As)	mg/l	BDL (<0.005)	BDL (<0.005)
18	Phosphate as PO ₄	mg/l	0.53	0.57
19	Hexavalent Chromium as Cr+6)	mg/l	BDL (<0.02)	BDL (<0.02)
20	Dissolved Oxygen	mg/l	4.5	5.2

BDL- Below Detectible Limit

Ground Water Quality Results –
Town: Barmer (Sewerage works) & Balotra (Water Supply & Sewerage works) Town, Continuation Sheet -- 5

S.No	Parameters	Units	Town: Balotra RSTDSP/BLT/WS-WW/01			Barmer Town RSTDSP/BAR/WW/01		
			Date of Sampling: 01.03.2024			Date of Sampling: 02.03.2024		
			CRMC Building Samdary Road HW	Sewer Line Zone 02; Ward No. 37	CRMC & SMCC Building, Luni River HW	Kalam Ashram Road	Saram Nagar, Nehru Road	CRMC Building, Mahavir Nagar
1	pH Value	-	7.08	7.39	7.82	7.80	7.71	7.32
2	Chlorides as Cl	mg/l	41.41	108.05	28.81	27.01	81.03	695.13
3	Fluorides (as F)	mg/l	1.60	1.69	1.12	0.26	2.85	3.12
4	Nitrate as NO ₃	mg/l	1.22	1.78	1.18	1.91	1.36	1.88
5	Phenolic Compound	mg/l	BDL(< 0.10)	BDL(< 0.10)	BDL(< 0.10)	BDL(< 0.10)	BDL(< 0.10)	BDL(< 0.10)
6	Sulphate as SO ₄	mg/l	21.36	116.90	22.42	25.0	124.82	148.06
7	Total Alkalinity	mg/l	107.46	228.88	107.46	95.52	314.42	338.30
8	Total Dissolved solids	mg/l	194.0	1904.0	175.0	164.0	1698.0	1824.90
9	Total Hardness as CaCO ₃	mg/l	114.0	554.0	114.0	110.20	543.40	752.20
10	Cadmium as Cd	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	0.10	0.13
11	Copper as Cu	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
12	Iron as Fe	mg/l	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	0.16	0.10	0.10
13	Lead (as Pb)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	0.75	0.79	BDL (<0.05)
14	Manganese as Mn	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	0.27	0.28	0.54
15	Mercury s Hg	mg/l	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)
16	Zinc	mg/l	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)
17	Arsenic as Ar	mg/l	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)
18	Total Phosphate	mg/l	0.35	0.44	0.44	0.43	0.49	0.46
19	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)
20	Dissolved Oxygen (DO)	mg/l	4.6	4.7	5.1	6.2	6.5	6.8

BDL- Below Detectible Limit

**Ground Water Quality Results –
Town: Dungarpur & Sagwara (Water Supply & Sewerage works) Town
Continuation Sheet -- 6**

S.No	Parameters	Units	Town: Dungarpur RSTDSP/DNG/WS-WW/01		Town: Sagwara RSTDSP/SGW/WS-WW/01	
			Date of Sampling: 05.03.2024		Date of Sampling: 05.03.2024	
			Store Yard Near MB College	CWR & Pumping Station New Colony	CWR Pumping Station	3.6 MLD STP Near BSNL Office
1	Total Hardness as CaCO ₃	mg/l	486.15	498.50	188.41	198.64
2	Phenol	mg/l	BDL	BDL	BDL	BDL
3	Sulphate	mg/l	45.50	52.41	32.51	19.08
4	Ortho Phosphate	mg/l	15.79	11.56	62.84	59.47
5	Alkalinity as CaCO ₃	mg/l	102.50	119.40	38.17	28.40
6	pH @ 25°C	-	7.50	7.12	7.69	7.58
7	Total Dissolved solids	mg/l	634.4	712.0	562.60	576.40
8	Chlorides as Cl	mg/l	189.56	194.62	264.50	263.80
9	Fluorides (as F)	mg/l	0.01	0.01	0.10	0.10
10	Nitrate as NO ₃	mg/l	55.41	62.42	55.96	30.01
11	Dissolved Oxygen (DO)	mg/l	4.10	3.90	3.60	3.90
12	Total Iron as Fe	mg/l	BDL	BDL	BDL	BDL
13	Copper as Cu	mg/l	BDL	BDL	BDL	BDL
14	Lead (as Pb)	mg/l	BDL	BDL	BDL	BDL
15	Arsenic as Ar	mg/l	BDL	BDL	BDL	BDL
16	Cadmium as Cd	mg/l	BDL	BDL	BDL	BDL
17	Manganese as Mn	mg/l	BDL	BDL	BDL	BDL
18	Mercury s Hg	mg/l	BDL	BDL	BDL	BDL
19	Zinc	mg/l	BDL	BDL	BDL	BDL
20	Total Chromium	mg/l	BDL	BDL	BDL	BDL

BDL- Below Detectible Limit

**Ground Water Quality Results –
Bundi (Water Supply & Sewerage works) Sub Project Town
Continuation Sheet -- 7**

S. No	Parameters	Units	Town: Bundi (Wastewater & Water Supply) RSTDSP/BUN/01			
			Date of Sampling: 15.03.2024 to 16.03.2024			
			STP Site, Ramganj Balaji	CWR, Nainwa Road	Nahar Ka Chohatta	WTP, Jhakhmood
1	pH @ 25°C	-	7.22	7.85	6.90	7.05
2	Chlorides as Cl	mg/l	199.92	64.57	159.94	129.95
3	Fluorides (as F)	mg/l	0.12	0.17	0.03	0.03
4	Nitrate as NO ₃	mg/l	21.38	9.35	7.72	11.29
5	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL	BDL	BDL	BDL
6	Sulphate as SO ₄	mg/l	79.97	25.99	63.45	51.88
7	Total Alkalinity	mg/l	237.61	59.4	85.81	125.43
8	Total Dissolved solids	mg/l	976.28	202.15	526.24	519.78
9	Total Hardness as CaCO ₃	mg/l	469.91	199.9	209.96	209.95
10	Cadmium (as Cd)	mg/l	BDL	BDL	BDL	BDL
11	Copper as Cu	mg/l	BDL	BDL	BDL	BDL
12	Iron as Fe	mg/l	0.06	0.08	0.02	BDL
13	Lead (as Pb)	mg/l	BDL	BDL	BDL	BDL
14	Manganese as Mn	mg/l	BDL	BDL	BDL	BDL
15	Mercury (as Hg)	mg/l	BDL	BDL	BDL	BDL
16	Zinc as Zn	mg/l	BDL	0.01	BDL	BDL
17	Arsenic (as As)	mg/l	BDL	BDL	BDL	BDL
18	Phosphate as PO ₄	mg/l	BDL	BDL	BDL	BDL
19	Hexavalent Chromium as Cr ⁺⁶)	mg/l	BDL	BDL	BDL	BDL
20	Dissolved Oxygen	mg/l	5.96	6.01	6.21	5.69

BDL - Below Detectible Limit

Ground Water Quality Results – Nawalgarh (Drainage works) Sub Project Town, Continuation Sheet - 8

S. No	Parameters	Units	Town: Nawalgarh (Drainage) RSTDSP/NAW-RAT/DR/01					
			Date of Sampling: 20.03.2024					
			Near Bakra Mandi	Near Fire Station	Swamiyo Ka Jav	Near Bhagton Ka Johad	Derana Johad (Disposal Point)	Badrana Johar (Disposal Point)
1	pH @ 25°C	-	7.25	7.10	7.89	7.36	7.25	7.87
2	Chlorides as Cl	mg/l	235.84	210.85	256.11	315.63	145.11	189.33
3	Fluorides (as F)	mg/l	0.23	0.30	0.25	0.30	0.22	0.40
4	Nitrate as NO ₃	mg/l	2.57	2.14	2.78	3.11	1.58	3.10
5	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)
6	Sulphate as SO ₄	mg/l	18.93	65.36	15.63	50.12	15.11	13.45
7	Total Alkalinity	mg/l	227.04	548.96	270.69	280.63	210.78	236.11
8	Total Dissolved solids	mg/l	525.70	1150.00	710.00	878.00	512.00	589.00
9	Total Hardness as CaCO ₃	mg/l	206.00	220.78	175.36	175.36	140.25	149.85
10	Cadmium (as Cd)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
11	Copper as Cu	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
12	Iron as Fe	mg/l	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)
13	Lead (as Pb)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.17)	BDL (<0.005)	BDL (<0.005)
14	Manganese as Mn	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.005)	BDL (<0.005)
15	Mercury (as Hg)	mg/l	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)
16	Zinc as Zn	mg/l	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)
17	Arsenic (as As)	mg/l	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)
18	Phosphate as PO ₄	mg/l	1.20	0.87	0.94	1.02	0.45	0.65
19	Hexavalent Chromium as Cr+6)	mg/l	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)
20	Dissolved Oxygen	mg/l	5.2	5.6	6.1	5.4	5.1	5.5

BDL- Below Detectible Limit

**Ground Water Quality Results –
Nimbahera (Water Supply works) Sub Project town
Continuation Sheet -- 9**

S. No	Parameters	Units	Town: Nimbahera (Water Supply works) RSTDSP/NBH/01		
			Date of Sampling: 19.03.2024		
			Near RUIDP Camp Office	Near Guard Room WTP, Arniya Joshi	Near Main Gate, CWR, BR College
1	pH @ 25°C	-	7.19	7.74	7.57
2	Chlorides as Cl	mg/l	324.87	174.93	449.82
3	Fluorides (as F)	mg/l	0.04	0.04	0.10
4	Nitrate as NO ₃	mg/l	17.23	16.63	18.41
5	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL	BDL	BDL
6	Sulphate as SO ₄	mg/l	129.95	69.97	179.93
7	Total Alkalinity	mg/l	191.4	184.08	204.6
8	Total Dissolved solids	mg/l	1222.05	745.91	1138.78
9	Total Hardness as CaCO ₃	mg/l	579.88	319.94	309.94
10	Cadmium (as Cd)	mg/l	BDL	BDL	BDL
11	Copper as Cu	mg/l	BDL	BDL	BDL
12	Iron as Fe	mg/l	0.08	0.06	0.06
13	Lead (as Pb)	mg/l	BDL	BDL	BDL
14	Manganese as Mn	mg/l	BDL	BDL	BDL
15	Mercury (as Hg)	mg/l	BDL	BDL	BDL
16	Zinc as Zn	mg/l	BDL	BDL	BDL
17	Arsenic (as As)	mg/l	BDL	BDL	BDL
18	Phosphate as PO ₄	mg/l	BDL	BDL	BDL
19	Hexavalent Chromium as Cr+6)	mg/l	BDL	BDL	BDL
20	Dissolved Oxygen	mg/l	5.40	5.62	5.35

BDL- Below Detectible Limit

**Ground Water Quality Results –
Nathdwara (Water Supply works) Sub Project town
Continuation Sheet -- 10**

S. No	Parameters	Units	Town: Nathdwara (Water Supply works) RSTDSP/NTD/01			
			Date of Sampling: 21.03.2024			
			RMC Plant	Near Govt Primary School, Bijalai	Near Cricket Ground RTDC Road	Near Primary Health Centre, Teliyon ka Talab
1	pH @ 25°C	-	7.14	8.32	7.52	7.64
2	Total Dissolved solids	mg/l	1362.96	457.04	1220.0	2115.26
3	Total Hardness as CaCO ₃	mg/l	699.86	179.96	589.88	879.82
4	Total Alkalinity	mg/l	336.60	138.6	290.4	270.6
5	Nitrate as NO ₃	mg/l	32.65	13.58	26.14	24.35
6	Chlorides as Cl	mg/l	464.81	84.96	254.90	699.72
7	Sulphate as SO ₄	mg/l	185.92	33.98	101.96	279.89
8	Iron as Fe	mg/l	0.10	0.04	0.08	0.14
9	Fluorides (as F)	mg/l	0.22	0.08	0.16	0.24
10	Zinc as Zn	mg/l	0.02	0.03	0.02	0.02
11	Copper as Cu	mg/l	BDL	BDL	BDL	BDL
12	Manganese as Mn	mg/l	BDL	BDL	BDL	BDL
13	Mercury (as Hg)	mg/l	BDL	BDL	BDL	BDL
14	Cadmium (as Cd)	mg/l	BDL	BDL	BDL	BDL
15	Arsenic (as As)	mg/l	BDL	BDL	BDL	BDL
16	Lead (as Pb)	mg/l	BDL	BDL	BDL	BDL
17	Hexavalent Chromium as Cr+6)	mg/l	BDL	BDL	BDL	BDL
18	Dissolved Oxygen	mg/l	5.84	5.12	5.32	5.44
19	Phosphate as PO ₄	mg/l	BDL	BDL	BDL	BDL
20	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL	BDL	BDL	BDL

BDL- Below Detectible Limit

Ground Water Quality Results – Bhawani Mandi (Drainage works) Sub Project Town, Continuation Sheet -- 11

S. No	Parameters	Units	Town: Bhawani Mandi (Drainage) RSTDSP/BUN-BHM/DR/01				
			Date of Sampling: 28.03.2024 to 29.03.2024				
			Trimurti Colony Dag Road Pachhad	Near Baba Circle	Sadar Bazar Near Tarachand Hotel	Asharam Road Near Santi Choraya	Jawahar Colony Near Vivekanand Choraya
1	pH @ 25°C	-	7.11	7.61	7.48	7.74	7.10
2	Chlorides as Cl	mg/l	130.12	160.30	351.78	284.11	210.11
3	Fluorides (as F)	mg/l	0.30	0.33	0.51	0.41	0.62
4	Nitrate as NO ₃	mg/l	1.32	2.66	3.63	1.25	3.14
5	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)	BDL (<0.10)
6	Sulphate as SO ₄	mg/l	43.10	47.62	42.11	35.11	42.36
7	Total Alkalinity	mg/l	185.40	243.08	230.89	121.74	472.39
8	Total Dissolved solids	mg/l	604.60	647.50	725.10	684.20	794.10
9	Total Hardness as CaCO ₃	mg/l	448.44	424.20	524.22	241.36	787.52
10	Cadmium (as Cd)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
11	Copper as Cu	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
12	Iron as Fe	mg/l	0.11	0.12	0.06	0.36	0.21
13	Lead (as Pb)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.17)	BDL (<0.005)
14	Manganese as Mn	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.005)
15	Mercury (as Hg)	mg/l	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)
16	Zinc as Zn	mg/l	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)	BDL (<0.20)
17	Arsenic (as As)	mg/l	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)
18	Phosphate as PO ₄	mg/l	0.25	0.56	8.89	1.14	0.63
19	Hexavalent Chromium as Cr+6)	mg/l	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)
20	Dissolved Oxygen	mg/l	5.2	5.5	4.5	4.9	4.3

BDL- Below Detectible Limit

**Ground Water Quality Results –
Jaisalmer & Sagwara (City Beautification Sub Project) Town
Continuation Sheet -- 12**

S.No	Parameters	Units	Jaisalmer Town RSTDSP/JSL/CTYBF/01	Sagwara Town RSTDSP/SGR/CTYBF/01
			Date of Sampling: 29.03.2024	Date of Sampling: 30.03.2024
			Gadisar lake	Masaniya Lake
1	Colour	Hazen	2.0	2.0
2	Odour	-	Agreeable	Agreeable
3	Taste	-	Agreeable	Agreeable
4	pH	-	6.78	7.05
5	Turbidity	NTU	6.91	7.84
6	Total Dissolved solids	mg/l	137.0	482.0
7	Total Hardness as CaCO ₃	mg/l	106.0	252.0
8	Total Alkalinity	mg/l	100.0	280.0
9	Calcium (as Ca)	mg/l	31.2	47.2
10	Magnesium (as Mg)	mg/l	6.80	32.56
11	Chlorides as Cl	mg/l	15.49	96.67
12	Fluorides (as F)	mg/l	0.08	1.02
13	Sulphate as SO ₄	mg/l	35.66	9.34
14	Iron as Fe	mg/l	0.085	0.086
15	Nitrate(NO ₃)	mg/l	0.51	0.67
16	Chromium as Cr	mg/l	BDL (< 0.005)	BDL (< 0.005)
17	Total residual chlorine	mg/l	BDL (< 0.1)	BDL (< 0.1)
18	Copper as Cu	mg/l	BDL (< 0.01)	BDL (< 0.01)
19	Phenolic Compound	mg/l	BDL (< 0.0005)	BDL (< 0.0005)
20	Manganese as Mn	mg/l	BDL (< 0.005)	BDL (< 0.005)
21	Lead (as Pb)	mg/l	BDL (< 0.002)	BDL (< 0.002)
22	Zinc as Zn	mg/l	BDL (< 0.01)	BDL (< 0.01)
23	Boron (as B)	mg/l	BDL (< 0.01)	BDL (< 0.01)
24	Aluminium (as Al)	mg/l	BDL (< 0.01)	BDL (< 0.01)
25	Arsenic (as As)	mg/l	BDL (< 0.002)	BDL (< 0.002)
26	Mercury (as Hg)	mg/l	BDL (< 0.0005)	BDL (< 0.0005)
27	Cadmium (as Cd)	mg/l	BDL (< 0.001)	BDL (< 0.001)
28	Cyanide (as CN)	mg/l	BDL (< 0.03)	BDL (< 0.03)
29	Selenium (as Se)	mg/l	BDL (< 0.005)	BDL (< 0.005)

BDL - Below Detectible limit

**Surface Water Quality Results –
Bundi (Drainage works) & Jodhpur (Sewerage works)**

S. No	Parameters	Units	Town: Bundi (Drainage) RSTDSP/BUN-BHM/DR/01	Town: Jodhpur (Sewerage works) RSTDSP/JOD/01
			Date of Sampling: 07.02.2024	Date of Sampling: 16.02.2024
			Jait Sagar Lake	Jojari River
1	pH @ 25°C	-	7.81	7.91
2	Turbidity	NTU	1.10	2.10
3	Total Dissolved solids	mg/l	541.0	1840.0
4	Total Suspended solids	mg/l	22.40	15.40
5	Chlorides as Cl	mg/l	53.60	532.17
6	Fluorides (as F)	mg/l	0.28	0.61
7	Sulphate as SO ₄	mg/l	15	294.90
8	Nitrate as NO ₃	mg/l	2.27	15.84
9	Iron as Fe	mg/l	0.88	0.22
10	Total Hardness as CaCO ₃	mg/l	185.63	423.0
11	Calcium (as Ca)	mg/l	47.47	137.89
12	Magnesium (as Mg)	mg/l	16.32	19.72
13	Sodium (as Na)	mg/l	7.20	185.30
14	Potassium (as K)	mg/l	1.10	3.10
15	Zinc as Zn	mg/l	BDL(<0.20)	BDL(<0.20)
16	Hexavalent Chromium as Cr ⁺⁶	mg/l	--	BDL(<0.02)
17	Copper as Cu	mg/l	BDL(<0.05)	BDL(<0.05)
18	Manganese as Mn	mg/l	BDL(<0.20)	BDL(<0.20)
19	Aluminum as Al	mg/l	BDL(<0.03)	BDL(<0.03)
20	Arsenic as Ar	mg/l	BDL(<0.005)	BDL(<0.005)
21	Boron as B	mg/l	BDL(<0.2)	BDL(<0.2)
22	Lead (as Pb)	mg/l	BDL(<0.05)	BDL(<0.05)
23	Cadmium as Cd	mg/l	BDL(<0.05)	BDL(<0.05)
24	Mercury as Hg	mg/l	BDL(<0.001)	BDL(<0.001)
25	Total Residual Chlorine	mg/l	BDL(<0.20)	BDL(<0.20)
26	Dissolved Oxygen (DO)	mg/l	4.9	6.55
27	Biochemical Oxygen demand (BOD) 3 days @ 25° C	mg/l	28.50	9.0
28	Chemical Oxygen demand	mg/l	109.82	49.92
29	Cyanide as CN	mg/l	BDL(<0.02)	BDL(<0.02)
30	Selenium as Se	mg/l	BDL(<0.05)	BDL(<0.05)

BDL- Below Detectible Limit

**Surface Water Quality Results –
Jodhpur (Drainage works) & Bharatpur (City Beautification works)
Continuation Sheet -- 2**

S. No	Parameters	Units	Town: Jodhpur (Drainage) RSTDSP/JOD/02
			Date of Sampling: 07.02.2024
			Near Derby Colony
1	pH @ 25°C	-	8.40
2	Turbidity	NTU	45
3	Total Dissolved solids	mg/l	1170
4	Total Suspended solids	mg/l	--
5	Chlorides as Cl	mg/l	191
6	Fluorides (as F)	mg/l	1.44
7	Sulphate as SO ₄	mg/l	15
8	Nitrate as NO ₃	mg/l	15
9	Iron as Fe	mg/l	0.07
10	Total Hardness as CaCO ₃	mg/l	85
11	Calcium (as Ca)	mg/l	20
12	Magnesium (as Mg)	mg/l	8.50
13	Sodium (as Na)	mg/l	465
14	Potassium (as K)	mg/l	0.75
15	Zinc as Zn	mg/l	0.26
16	Hexavalent Chromium as Cr ⁺⁶	mg/l	0.036
17	Copper as Cu	mg/l	0.065
18	Manganese as Mn	mg/l	BDL
19	Aluminum as Al	mg/l	--
20	Arsenic as Ar	mg/l	--
21	Boron as B	mg/l	--
22	Lead (as Pb)	mg/l	0.15
23	Cadmium as Cd	mg/l	BDL
24	Mercury as Hg	mg/l	--
25	Total Residual Chlorine	mg/l	--
26	Dissolved Oxygen (DO)	mg/l	7.58
27	Biochemical Oxygen demand (BOD) 3 days @ 25° C	mg/l	9.0
28	Chemical Oxygen demand	mg/l	49.92
29	Cyanide as CN	mg/l	--
30	Selenium as Se	mg/l	--
31	Total Alkalinity	mg/l	700
32	Phenolic Compound as C ₆ H ₅ OH	mg/l	--
33	Phosphate	mg/l	6.14

BDL- Below Detectible Limit

**Surface Water Quality Results –
Town: Sagwara (Water Supply & Sewerage works) Town
Continuation Sheet -- 3**

S.No	Parameters	Units	Town: Sagwara RSTDSP/SGW/WS-WW/01
			Date of Sampling: 05.03.2024
			CWR pumping station
1	pH Value	-	6.98
2	Turbidity	mg/l	0.10
3	Total Dissolved solids	mg/l	425.0
4	Total suspended solid	mg/l	12.60
5	Total Hardness as CaCO ₃	mg/l	152.50
6	Chlorides as Cl	mg/l	196.54
7	Sodium as Na	mg/l	201.50
8	Potassium	mg/l	17.20
9	Dissolved Oxygen (DO)	mg/l	5.20
10	Chemical Oxygen demand (COD)	mg/l	10.50
11	Biochemical oxygen demand (BOD)	mg/l	3.00
12	Fluorides (as F)	mg/l	0.10
13	Sulphate as SO ₄	mg/l	17.50
14	Nitrate as NO ₃	mg/l	35.56
15	Total Iron as Fe	mg/l	BDL
16	Calcium	mg/l	48.61
17	Magnesium	mg/l	7.35
18	Selenium	mg/l	BDL
19	Boron as B	mg/l	BDL
20	Copper as Cu	mg/l	BDL
21	Lead (as Pb)	mg/l	BDL
22	Arsenic (as As)	mg/l	BDL
23	Cadmium (as Cd)	mg/l	BDL
24	Manganese as Mn	mg/l	BDL
25	Mercury (as Hg)	mg/l	BDL
26	Zinc as Zn	mg/l	BDL
27	Chromium as Cr)	mg/l	BDL
28	Cyanide as CN	mg/l	BDL
29	Aluminium as Al	mg/l	BDL
30	Residual Chlorine	mg/l	BDL

BDL- Below Detectible Limit

Surface Water Quality Results – Nimbahera (Water Supply)**Continuation Sheet -- 4**

S. No	Parameters	Units	Town: Nimbahera (Water Supply) RSTDSP/NBH/01	
			Date of Sampling: 19.03.2024	
			Railway Track	Gambhiri Dam
1	pH @ 25°C	-	7.42	8.10
2	Turbidity	NTU	--	--
3	Total Dissolved solids	mg/l	1786.03	554.22
4	Total Suspended solids	mg/l	--	--
5	Chlorides as Cl	mg/l	449.82	159.94
6	Fluorides (as F)	mg/l	0.12	0.04
7	Sulphate as SO ₄	mg/l	179.93	63.97
8	Nitrate as NO ₃	mg/l	40.39	12.47
9	Iron as Fe	mg/l	0.08	0.02
10	Total Hardness as CaCO ₃	mg/l	739.85	189.96
11	Calcium (as Ca)	mg/l	--	--
12	Magnesium (as Mg)	mg/l	--	--
13	Sodium (as Na)	mg/l	--	--
14	Potassium (as K)	mg/l	--	--
15	Zinc as Zn	mg/l	BDL	BDL
16	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL	BDL
17	Copper as Cu	mg/l	BDL	BDL
18	Manganese as Mn	mg/l	BDL	BDL
19	Aluminum as Al	mg/l	--	--
20	Arsenic as Ar	mg/l	BDL	BDL
21	Boron as B	mg/l	--	--
22	Lead (as Pb)	mg/l	BDL	BDL
23	Cadmium as Cd	mg/l	BDL	BDL
24	Mercury as Hg	mg/l	BDL	BDL
25	Total Residual Chlorine	mg/l	--	--
26	Dissolved Oxygen (DO)	mg/l	3.92	4.22
27	Biochemical Oxygen demand (BOD) 3 days @ 25° C	mg/l	6.54	4.62
28	Chemical Oxygen demand	mg/l	42.96	16.58
29	Cyanide as CN	mg/l	--	--
30	Selenium as Se	mg/l	--	--
31	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL	BDL
32	Phosphate	mg/l	BDL	--
33	Total Alkalinity	mg/l	448.8	138.6

BDL- Below Detectible Limit

Soil Quality Results – Nokha (Water Supply & Sewerage Works) Sub Project Town

Sr. No	Parameters	Unit of Measurements	Nokha (Water Supply & Sewerage Works) town RSTDSP/NKH/01					
			Date of Sampling: 04.01.2024					
			AEN Campus, Nanuwali Gate	Bagdi	Raiser	Ranarao	SPS	Charkara
1	pH (at 25°C)	-	7.82	8.01	7.85	7.60	8.02	8.3
2	Total Nitrogen (TKN)	%	0.008	0.006	0.006	0.067	0.080	0.065
3	Potassium as K	%	0.135	0.035	0.035	0.046	0.030	0.050
4	Electrical Conductivity	mS/cm	57	169	88	52	234	106
5	Calcium as Ca	% By Mass	0.11	0.11	0.11	0.11	0.15	0.12
6	Magnesium as Mg	% By Mass	0.005	0.005	0.004	0.005	0.005	0.003
7	Organic Matter	%	0.36	0.24	0.22	0.22	0.15	0.29
8	Soil Moisture	%	1.98	2.35	0.93	1.22	1.31	1.53
9	Sodium as Na	%	0.065	0.025	0.010	0.036	0.035	0.015
10	Oil & Grease	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
11	Phosphorus	%	0.005	0.004	0.002	0.006	0.004	0.004

BDL- Below Detectible Limit**Soil Quality Results – Jodhpur (Drainage works) Sub Project Town****Continuation Sheet -- 2**

Sr. No	Parameters	Unit of Measurements	Town: Jodhpur (Drainage) RSTDSP/JOD/02			
			Date of Sampling: 07.02.2024			
			Near Derby Colony	Near Juno Complex	SMCC Site Plant	STP Plant, Salawas
1	pH (at 25°C)	-	8.34	8.47	7.91	10.31
2	Nitrate Nitrogen	meq/lit.	1.35	0.65	1.75	0.41
3	Potassium as K	meq/lit.	0.95	0.11	0.56	0.35
4	Electrical Conductivity	mS/cm	0.475	0.155	0.456	0.185
5	Calcium as Ca	meq/lit.	1.50	0.70	1.30	1.35
6	Magnesium as Mg	meq/lit.	0.55	0.65	0.50	0.30
7	Organic Matter	%	0.101	0.31	1.07	0.12
8	Soil Moisture	%	0.52	0.47	0.51	1.15
9	Sodium as Na	meq/lit.	2.15	0.25	0.79	1.10
10	Soil Texture - Sand	%	86.25	85.25	71.25	89.31
	Silt		7.28	7.85	17.85	4.13
	Clay		6.47	6.90	10.90	6.56
11	Permeability	cm/sec.	--	--	--	--
12	Oil & Grease	mg/kg	--	--	--	--
13	Phosphate	mg/kg	4.32	4.50	3.87	3.58
14	Water Holding Capacity	%	26.84	30.25	36.25	30.17
15	Chloride	meq/lit.	2.50	0.80	1.55	0.25
16	Organic Carbon	%	0.062	0.18	0.62	0.070

Soil Quality Results – Bundi (Drainage works) Sub Project Town, Continuation Sheet -- 3

Sr. No	Parameters	Unit of Measurements	Town: Bundi (Drainage works) RSTDSP/BUN-BHM/DR/01					
			Date of Sampling: 07.02.2024					
			Jait Sagar Nalla, Near Arriwali Marriage Garden	Jait Sagar Nalla, Near Meera Bagh Choki	City Kotwali Police Thana	Bharat Petrol Pump (Devpura)	Nainwa Road, Magistrate Colony	Batching Plant, Near Meera Road
1	pH (at 25°C)	-	7.11	7.61	8.01	7.85	7.35	7.41
2	Available Nitrogen	Kg/ha	268.35	306.98	358.15	253.60	357.36	292.44
3	Potassium as K	kg/ha	183.56	196.93	191.44	210.35	210.43	212.59
4	Electrical Conductivity	mS/cm	0.215	0.275	0.296	0.315	0.296	0.274
5	Calcium as Ca	mg/kg	11.30	33.79	56.48	66.93	78.61	67.29
6	Magnesium as Mg	mg/kg	6.85	6.83	7.52	5.45	11.58	8.86
7	Organic Matter	%	0.44	0.50	0.69	0.83	0.75	0.65
8	Soil Moisture	%	0.62	0.52	0.99	1.06	0.91	0.96
9	Sodium as Na	mg/kg	98.93	99.77	94.41	91.90	82.07	80.49
10	Soil Texture	--	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam
11	Permeability	cm/sec.	0.0007	0.0008	0.0007	0.0008	0.0009	0.0007
12	Oil & Grease	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
13	Phosphate	Kg/ha	16.06	13.83	12.24	17.85	19.00	20.84

BDL- Below Detectible Limit

Soil Quality Results – Dungarpur & Sagwara (Water Supply & Sewerage works) Towns, Continuation Sheet -- 4

S.No	Parameters	Unit of Measurements	Town: Dungarpur RSTDSP/DNG/WS-WW/01		Town: Sagwara RSTDSP/SGW/WS-WW/01	
			Date of Sampling: 05.03.2024		Date of Sampling: 05.03.2024	
			STP Site	CRMC 01 Site	3.6 MLD STP Near BSNL office	1.0 MLD Near Indian Petrol Pump Punarwas Colony
1.	pH (at 27°C)	-	7.25	7.66	7.18	7.05
2.	Electrical Conductivity	mS/cm	0.96	0.88	0.69	0.66
3.	Moisture (water content)	%	1.20	1.11	2.12	1.02
4.	Organic Matter	%	0.52	0.66	0.48	0.33
5.	Total Nitrogen (as N)	Mg/Kg	18.98	19.64	17.86	11.64
6.	Calcium (as Ca)	Mg/Kg	11.25	15.64	16.74	16.45
7.	Magnesium (as Mg)	Mg/Kg	2.41	3.56	1.84	1.81
8.	Sodium (as Na)	Kg/ha	21.42	19.49	22.18	18.54
9.	Potassium (as K)	Kg/ha	5.60	3.69	2.55	2.13
10.	Phosphate	Kg/ha	11.62	13.64	12.62	10.50
11.	Oil & Grease	mg/kg	BDL	BDL	BDL	BDL
12.	Permeability	cm/h	0.01	0.01	0.01	0.01
13.	Slit	%	15.00	12.00	14.0	12.0
	Clay	%	7.00	6.00	7.0	9.0
	Sand	%	78.00	82.00	79.0	79.0

BDL- Below Detectible Limit

Soil Quality Results – Jodhpur (Sewerage works) Sub Project Town**Continuation Sheet -- 5**

Sr. No	Parameters	Unit of Measurements	Town: Jodhpur (Sewerage works) RSTDSP/JOD/01	
			Date of Sampling: 16.02.2024	
			STP Gujrawas	SPS Nandri
1	pH (at 25°C)	-	7.31	7.85
2	Available Nitrogen	Kg/ha	255.57	280.74
3	Potassium as K	kg/ha	317.67	316.15
4	Electrical Conductivity	mS/cm	0.370	0.415
5	Calcium as Ca	mg/kg	293.47	270.10
6	Magnesium as Mg	mg/kg	23.97	24.50
7	Organic Matter	%	0.63	0.75
8	Soil Moisture	%	1.16	1.66
9	Sodium as Na	mg/kg	97.87	101.36
10	Soil Texture	--	Sandy Loam	Sandy Loam
11	Permeability	cm/sec.	0.0007	0.0008
12	Oil & Grease	mg/kg	BDL(<0.5)	BDL(<0.5)
13	Phosphorus	Kg/ha	22.51	21.37

BDL- Below Detectible Limit**Soil Quality Results – Barmer (Sewerage works) Sub Project Town****Continuation Sheet -- 6**

S.No.	Parameters	Unit of Measurements	Barmer Town RSTDSP/BAR/WW/01		
			Date of Sampling: 02.03.2024		
			Kalam Ashram Road	Saram Nagar Nehru Road	CRMC Building Mahavir Nagar
1.	pH	-	7.24	7.83	7.05
2.	Available Nitrogen	Kg/ha	230.88	274.53	205.81
3.	Available Phosphorus	Kg/ha	513.01	544.20	523.47
4.	Potassium (as K)	Kg/ha	410.84	1374.16	9974.76
5.	Electrical Conductivity	mS/cm	3.62	2.94	3.25
6.	Calcium (as Ca)	Mg/Kg	144.68	175.14	258.91
7.	Magnesium (as Mg)	Mg/Kg	23.09	27.70	50.78
8.	Organic Matter	%	0.32	0.30	0.28
9.	Soil Moisture	%	3.73	3.63	2.68
10.	Sodium (as Na)	mg/kg	363.92	266.09	1809.22
11.	Soil Texture	-	Sandy Loam	Sandy Loam	Sandy Loam
12.	Permeability	cm/sec	0.0007	0.0008	0.0009
13.	Oil & Grease	mg/kg	BDL	BDL	BDL

BDL- Below Detectible Limit

Soil Quality Results – Bundi (Wastewater & Water Supply) Continuation Sheet -- 7

Sr. No	Parameters	Unit of Measurements	Town: Bundi (Wastewater & Water Supply) RSTDSP/BUN/01			
			Date of Sampling: 15.03.2024 to 16.03.2024			
			STP Site, Ramganj Balaji	CWR, Nainwa Road	Nahar Ka Chohatta	WTP, Jhakh mood
1	pH (at 25°C)	-	7.63	7.85	7.32	6.69
2	Total Nitrogen (TKN)	%	0.03	0.04	0.03	0.05
3	Potassium as K	kg/ha	65.41	94.12	75.68	89.56
4	Electrical Conductivity	mS/cm	689	634	532	354
5	Calcium as Ca	mg/kg	16.45	13.25	30.12	25.45
6	Magnesium as Mg	mg/kg	6.89	10.20	4.10	12.89
7	Organic Matter	%	4.12	4.51	4.16	4.51
8	Soil Moisture	%	21.36	20.13	22.35	24.12
9	Sodium as Na	kg/ha	122.30	145.63	136.11	114.21
10	Soil Texture	--	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
	Sand	%	68.56	67.0	74.20	65.75
	Silt	%	11.65	14.0	11.23	17.45
	Clay	%	19.79	19.0	14.57	16.80
11	Permeability	cm/hr.	7.98	8.45	8.45	8.12
12	Oil & Grease	mg/kg	BDL	BDL	BDL	BDL
13	Phosphorous	mg/kg	120.52	155.71	170.45	179.42

BDL- Below Detectible Limit**Soil Quality Results – Nimbahera (Water Supply) Continuation Sheet -- 8**

Sr. No	Parameters	Unit of Measurements	Town: Nimbahera (Water Supply works) RSTDSP/NBH/01		
			Date of Sampling: 19.03.2024		
			Near RUIDP Camp Office	Near Guard Room WTP, Arniya Joshi	Near Main Gate, CWR, BR College
1	pH (at 25°C)	-	8.14	7.46	8.12
2	Total Nitrogen (TKN)	%	0.05	0.05	0.07
3	Potassium as K	kg/ha	104.56	82.54	108.94
4	Electrical Conductivity	mS/cm	412	454	468.00
5	Calcium as Ca	mg/kg	22.86	26.52	58.94
6	Magnesium as Mg	mg/kg	7.32	7.89	26.34
7	Organic Matter	%	3.08	3.44	3.56
8	Soil Moisture	%	14.84	14.52	15.52
9	Sodium as Na	kg/ha	152.04	144.36	162.04
10	Texture	--	Sandy Loam	Sandy Loam	Sandy Loam
		%			
		%			
	Sand	%	64.90	70.56	70.22
	Silt	%	19.68	18.34	10.78
	Clay	%	15.42	11.10	19.00
11	Permeability	cm/hr.	6.08	8.36	8.98
12	Oil & Grease	mg/kg	BDL	BDL	BDL
13	Phosphorus	mg/kg	24.16	82.56	135.08

BDL- Below Detectible Limit

Soil Quality Results – Nathdwara (Water Supply)
Continuation Sheet -- 9

Sr. No	Parameters	Unit of Measurements	Town: Nathdwara (Water Supply works) RSTDSP/NTD/01			
			Date of Sampling: 21.03.2024			
			300 KL, OSHR Bhandri Bawbari	RTDC Road	WTP, Nand Samand	Near Shiv Colony, Zone-13
1	pH (at 25°C)	-	7.96	7.45	7.44	7.82
2	Total Nitrogen (TKN)	%	212.36	574.22	522.86	485.26
3	Potassium as K	kg/ha	62.08	70.16	62.36	52.65
4	Electrical Conductivity	mS/cm	744.68	612.06	588.26	588.46
5	Calcium as Ca	mg/kg	5.48	8.32	9.24	8.48
6	Magnesium as Mg	mg/kg	1.56	2.88	3.78	2.22
7	Organic Matter	%	0.62	0.64	0.68	0.66
8	Soil Moisture	%	8.44	15.74	17.40	14.82
9	Sodium as Na	kg/ha	22.66	88.46	72.04	70.12
10	Texture	--	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
	Sand	%	73.40	64.10	62.10	66.10
	Silt	%	12.20	18.90	21.90	17.90
	Clay	%	14.40	17.00	16.00	16.00
11	Permeability	cm/hr.	12.84	6.00	8.00	10.84
12	Oil & Grease	mg/kg	BDL	BDL	BDL	BDL
13	Phosphorus	mg/kg	36.84	40.94	52.48	84.56

BDL- Below Detectible Limit

Soil Quality Results – Sagwara & Jaisalmer (City Beautification works) Town
Continuation Sheet -- 10

S.No	Parameters	Unit of Measurements	Jaisalmer Town RSTDSP/JSL/CTYBF/01	Sagwara Town RSTDSP/SGR/CTYBF/01
			Date of Sampling: 29.03.2024	Date of Sampling: 30.03.2024
			Near Café Front Area	Masaniya Lake
1.	Available Nitrogen	mg/kg	664.98	114.46
2.	Available Phosphorus	mg/kg	3.94	0.67
3.	Electrical Conductivity	µS/cm	479.0	3660.0
4.	Exchangeable Calcium	mg/kg	2138.0	6200.0
5.	Exchangeable Potassium	mg/kg	126.0	474.0
6.	Organic Matter	%	5.98	0.48
7.	pH	-	7.64	7.51
8.	Sodium (as Na)	mg/100gm	1336.72	1199.63
9.	Magnesium (as Mg)	Mg/Kg	Not done	Not done
10.	Soil Moisture	%	Not done	Not done
11.	Soil Texture	-	Not done	Not done
12.	Permeability	cm/sec	Not done	Not done
13.	Oil & Grease	mg/kg	Not done	Not done

Soil Quality Results – Nawalgarh (Drainage works) Sub Project town, Continuation Sheet -- 11

Sr. No	Parameters	Unit of Measurements	Town: Nawalgarh (Drainage works)					
			RSTDSP/NAW-RAT/DR/01					
			Date of Sampling: 20.03.2024					
			Near Bakra Mandi	Near Fire Station	Swamiyo Ka Jav	Near Bhagton Ka Johad	Derana Johad (Disposal Point)	Badrana Johar (Disposal Point)
1	pH (at 25°C)	-	7.11	7.91	8.25	7.31	7.35	7.85
2	Available Nitrogen	Kg/ha	143.12	175.15	132.09	148.21	127.93	145.32
3	Potassium as K	kg/ha	136.32	122.10	151.66	154.15	135.38	162.25
4	Electrical Conductivity	mS/cm	0.362	0.315	0.315	0.235	0.385	0.275
5	Calcium as Ca	mg/kg	172.61	128.16	183.98	201.62	210.44	151.08
6	Magnesium as Mg	mg/kg	48.08	39.51	35.47	56.46	62.37	51.22
7	Organic Matter	%	0.75	0.65	0.69	0.68	0.75	0.97
8	Soil Moisture	%	1.25	0.98	0.89	0.99	1.25	1.63
9	Sodium as Na	mg/kg	50.20	65.86	90.12	86.00	82.57	81.85
10	Soil Texture	--	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam
11	Permeability	cm/sec.	0.0008	0.0005	0.0007	0.0008	0.0006	0.0009
12	Oil & Grease	mg/kg	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)
13	Phosphate	Kg/ha	29.14	32.31	41.20	36.75	34.62	41.29

BDL- Below Detectible Limit

Soil Quality Results – Bhawani Mandi (Drainage works) Sub Project town, Continuation Sheet -- 12

Sr. No	Parameters	Unit of Measurements	Name of Town: Bhawani Mandi (Drainage works) Package No. RSTDSP/BUN-BHM/DR/01				
			Date of Sampling: 28.03.2024				
			Trimurti Colony Dag Road Pachhad	Near Baba Circle	Sadar Bazar Near Tarachand Hotel	Asharam Road Near Santi Choraya	Jawahar Colony Near Vivekanand Choraya
1	pH (at 25°C)	-	7.11	7.61	8.11	7.61	7.51
2	Available Nitrogen	Kg/ha	319.22	331.48	344.12	294.96	256.53
3	Potassium as K	kg/ha	199.11	214.86	217.01	221.69	223.72
4	Electrical Conductivity	mS/cm	0.315	0.295	0.310	0.215	0.315
5	Calcium as Ca	mg/kg	40.02	39.91	63.92	71.69	32.05
6	Magnesium as Mg	mg/kg	8.25	3.89	4.86	9.72	10.21
7	Organic Matter	%	0.64	0.69	0.49	0.44	0.69
8	Soil Moisture	%	0.87	0.94	1.12	1.02	1.14
9	Sodium as Na	mg/kg	75.90	84.92	85.89	82.97	74.97
10	Soil Texture	--	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam
11	Permeability	cm/sec.	0.007	0.006	0.008	0.008	0.009
12	Oil & Grease	mg/kg	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)
13	Phosphate	Kg/ha	23.48	16.70	19.85	23.97	14.77

BDL- Below Detectible Limit

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

Government of Rajasthan
Office of Project Director
Rajasthan Urban Infrastructure Development Project (Unit of RUDSICO)
AVS Building, Jawahar Circle, JLN Marg, Jaipur - 302017
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email: mailruidp@gmail.com, mailruidp@rajasthan.gov.in web site: -https://urbes.rajasthan.gov.in/ruidp
No. F3 (301) (80)/RUIDP/PMU/PH-IV/ ADB E. Safeguard /Gen adm./2020-31/11364 Date: 18/12/2020

Suprintending Engineer/Executive Engineer
PIU- Abu Road, Sirahi, Ratangarh,
Fatehpur, Laxmangarh, Sardarsahar,
Kuchaman, Ladnu, Mokana, Didwana,
Khetri, Mandawa, Pratapgarh and
Banswara.

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

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

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

Further it is directed that all the PIU should maintain proper separate records of safeguard related Grievances received in their town and ensure that the safeguard related Grievances received are resolved as per Grievance Redress Mechanism (GRM) prescribed in EARF/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 and CMSC on-site will provide the most easily accessible or first level of contact for quick resolution of grievances	EE PIU will resolve issues in consultation with supervision personnel (ACM), Safeguard and Safety Officer (SSO) PIU, Contractor, and Safeguard staff of CMSC. If required, city level monitoring committee (CLMC) will be involved in resolution of grievances at the 1st level.	PIU will resolve issues within 7 days of receipt of a complaint/ grievance.	Safeguard Support of CMSC will oversee the matters and prioritize / follow up the issues with PIU/Contractor. Safeguard and Safety Officer of PIUs, Safeguard Support of CMSC will record Grievances timely in the format enclosed as Annexure 1. Contractor/ Safeguard Support of CMSC will enter the general Grievance received (in a summarized manner) in Grievance Register (format enclosed as Annexure 2) on receipt form public forwarded to head of PIU or Safeguard and Safety Officer (SSO) for resolve in time and provide summarized information as and when require. The grievance register will be endorsed by all field agencies involved in implementation of EMP and

shp
21/12/20

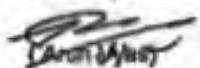
Project Management and Capacity Building Consultancy (PMCB) - RSTDSP (RUIDP-V)			
Received by 21/12/2020		Forward No. 1900	
TL	DTL/EE	CMSC	SSO
GPBS	ES	PE	CMSC
PC	ICM	PE	II
CS	PE	PHI Eng	WCL
PC	CM	PHV	SSO

Methodology of multi-tier GRM	Responsibility/Action to be taken	Time Frame	Record Keeping
			KP.
2nd level: All grievances that cannot be redressed within 7 days at field/PIU level will be brought to the notice of Zonal PIU headed by Additional Chief Engineer (ACE).	The ACE at zonal PIU will resolve issues in consultation with SEIEE PIU, assistant safeguard officer (ASO), field level PIU, CMSC, and the contractor.	The ACE at zonal PIU will resolve the grievance within 7 days of receipt of complaint/grievance.	Environmental and Social Safeguards Personnel of CMSC will keep all the records referred to zonal PIU and after completion, all the details will be submitted to PMU.
3rd level: All the grievances that are not addressed by Zonal PIU within 7 days of receipt will be brought to the notice of the PMU.	Project Officer (Social/Environment) at PMU will resolve the grievance with necessary coordination of Zonal PIU and CMSC and guidance/instruction of additional project director (APD-PMU).	PMU will resolve the grievance within 15 days of receipt of grievance.	Safeguard Support of PMSC will keep all the records referred to PMU.
4th level: Grievances not redressed through this process within/at the project level within stipulated time period will be referred to the CLC/grievance redress committee (GRC).	Zonal PIU will inform the CLC regarding any grievances required to be resolved urgently.	The GRC will resolve the grievance within 15 days of receiving the complaint.	Environmental and Social Safeguards Personnel of CMSC will keep all the records.
Please note that an aggrieved person shall have access to the country's legal system at any stage, and accessing the country's legal system can run parallel to accessing the GRM and is not dependent on the negative outcome of the GRM.			

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

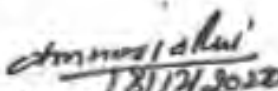
It is also directed that names and contact number of the concerned Safeguard and Safety Officer (SSO) of PIU, contractors, safeguard support staff of CMSC will be posted at all construction sites at visible locations.

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


Chief Engineer, RUIDP

No. F3 (301) (60)/RUIDP/PMU/PH-IV/ Social Safeguard/General Adm./2020-21/ Date: 18/12/2020
Copy to the following for information and necessary action please:- 18368-70

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


18/12/2020
(K. M. Mandawaria)
PO (Co-ord. & Social)

RUIDP Phase-IV: Consultants

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APPENDIX 13: ACCIDENT, INCIDENT, NEAR MISS AND FIRST AID CASES IN PROJECT TOWNS DURING OCTOBER 2023 TO MARCH 2024 PERIOD

Report on Accident/Incident/near miss/First aid cases

1. Town: Jodhpur (Drainage Sub Project)

Contractor: M/s SMCC – AG JV

Duration: 1st October 2023 to 31st March 2024

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2023	0	0	0	0
February 2023	0	0	0	0
March 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

2. Town: Nokha (Water Supply and Wastewater Sub Project)**Contractor: M/s MCPL – PRGL JV****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	1
November 2023	0	0	0	1
December 2023	0	0	0	1
January 2023	0	0	0	1
February 2023	0	0	0	0
March 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	1	Minor	EHS officer of contractor Mr. Yogendra provided awareness to whole team on importance of PPEs, H&S training along with corrective actions to prevent similar incidents.
2.	November 2023	1	Minor	EHS officer of contractor Mr. Yogendra provided awareness to whole team on importance of PPEs, H&S training along with corrective actions to prevent similar incidents.
3.	December 2023	1	Minor	EHS officer of contractor Mr. Yogendra provided awareness to whole team on importance of PPEs, H&S training along with corrective actions to prevent similar incidents.
4.	January 2023	1	Minor	EHS officer of contractor Mr. Yogendra provided awareness to whole team on importance of PPEs, H&S training along with corrective actions to prevent similar incidents.
5.	February 2023	0	0	0
6.	March 2023	0	0	0

3. Town: Bharatpur (Sewerage Sub project)**Contractor: M/s SMCC – AG JV****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	1	0
November 2023	0	0	0	1
December 2023	0	0	1	0
January 2023	0	0	1	0
February 2023	0	0	0	0
March 2023	0	0	1	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	1	Minor scratch of hand while using DWC pipe	EHS officer of contractor Mr. Shyampal provided H&S training to whole team on importance of PPEs & corrective actions to prevent similar incidents.
2.	November 2023	0	0	-
3.	December 2023	1	Minor	EHS officer of contractor Mr. Shyampal provided H&S training to whole team on importance of PPEs & corrective actions to prevent similar incidents.
4.	January 2023	1	Minor	EHS officer of contractor Mr. Shyampal provided H&S training to whole team on importance of PPEs & corrective actions to prevent similar incidents.
5.	February 2023	0	0	-
6.	March 2023	1	Minor	EHS officer of contractor Mr. Shyampal provided H&S training to whole team on importance of PPEs & corrective actions to prevent similar incidents.

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	1	Minor	Shyam pal
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

4. Town: Jodhpur (Sewerage Sub Project)**Contractor: M/s Eagle Infra India Ltd.****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2023	0	0	0	1
February 2023	0	0	0	0
March 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	1	Minor	EHS officer of contractor Mr. Jaiprakash provided awareness and H&H training to whole team on importance of PPEs & corrective actions to prevent similar incidents.
5.	February 2023	0	0	0
6.	March 2023	0	0	0

5. Town: Sagwara (Water Supply & Wastewater Sub Project)**Contractor: M/s Eagle Infra India Ltd.****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2023	0	0	0	0
February 2023	0	0	0	0
March 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

6. Town: Dungarpur (Water Supply & Wastewater Sub Project)**Contractor: M/s Eagle Infra India Ltd.****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	3
November 2023	0	0	0	3
December 2023	0	0	0	3
January 2023	0	0	0	1
February 2023	0	0	0	0
March 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	3	Minor	EHS officer of contractor Mr. Pankaj Saini provided awareness training to whole team on importance of PPEs and Health and Safety along with corrective actions to prevent similar incidents.
2.	November 2023	3	Minor	EHS officer of contractor Mr. Pankaj Saini provided awareness training to whole team on importance of PPEs and Health and Safety along with corrective actions to prevent similar incidents.
3.	December 2023	3	Minor	EHS officer of contractor Mr. Pankaj Saini provided awareness training to whole team on importance of PPEs and Health and Safety along with corrective actions to prevent similar incidents.
4.	January 2023	1	Minor	EHS officer of contractor Mr. Pankaj Saini provided awareness training to whole team on importance of PPEs and Health and Safety along with corrective actions to prevent similar incidents.
5.	February 2023	0	0	0
6.	March 2023	0	0	0

7. Town: Bundi (Water Supply & Wastewater Sub Project)**Contractor: M/s. Khilari Infrastructure Pvt. Ltd.****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2023	0	0	0	0
February 2023	0	0	0	0
March 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

8. Town: Nathdwara (Water Supply Sub project)**Contractor: M/s Khilari Infrastructure Pvt. Ltd.****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2023	0	0	0	0
February 2023	0	0	0	0
March 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

9. Town: Nimbahera (Water Supply Sub project)**Contractor: M/s Khilari Infrastructure Pvt. Ltd.****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2023	0	0	0	0
February 2023	0	0	0	0
March 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

10.Town: Bundi (Drainage)**Contractor: M/s RBI – PL JV****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2023	0	0	0	0
February 2023	0	0	0	0
March 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

11.Town: Bhawani Mandi (Drainage)**Contractor: M/s RBI – PL JV****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2023	0	0	0	0
February 2023	0	0	0	0
March 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

12.Town: Ratangarh (Drainage)**Contractor: M/s RBI – PL JV****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2023	0	0	0	0
February 2023	0	0	0	0
March 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

13.Town: Nawalgarh (Drainage)**Contractor: M/s RGI - RBI PL JV****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2023	0	0	0	0
February 2023	0	0	0	0
March 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

14.Town: Bharatpur (City Beautification Sub Project)**Contractor: M/s Khandelwal Construction****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2023	0	0	0	0
February 2023	0	0	0	0
March 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

15.Town: Barmer (Sewerage Sub Project)**Contractor: M/s GCKC Projects and Works PVT Ltd****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2023	0	0	0	0
February 2023	0	0	0	0
March 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

16.Town: Balotra (Water Supply & Wastewater Sub Project)**Contractor: M/s GCKC Projects and Works PVT Ltd****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2023	0	0	0	0
February 2023	0	0	0	0
March 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

17.Town: Jaisalmer (City Beautification Sub Project)**Contractor: M/s D.B. infratech, Mumbai****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2023	0	0	0	0
February 2023	0	0	0	0
March 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

18.Town: Sagwara (City Beautification Sub Project)**Contractor: M/s D.B. infratech, Mumbai****Duration: 1st October 2023 to 31st March 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
October 2023	0	0	0	0
November 2023	0	0	0	0
December 2023	0	0	0	0
January 2023	0	0	0	0
February 2023	0	0	0	0
March 2023	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	October 2023	0	0	0
2	November 2023	0	0	0
3	December 2023	0	0	0
4	January 2023	0	0	0
5	February 2023	0	0	0
6	March 2023	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	October 2023	0	0	0
2.	November 2023	0	0	0
3.	December 2023	0	0	0
4.	January 2023	0	0	0
5.	February 2023	0	0	0
6.	March 2023	0	0	0

***** End of Report *****

