



Environmental Monitoring Report

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December 2024

India: Rajasthan Secondary Towns Development Sector Project-Additional Financing

Part 1 of 3: Main Report (Pages 1-156) and Appendices 1 - 3

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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Semi-Annual Environmental Monitoring Report

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

SFG Log: 6398

India: Rajasthan Secondary Towns Development Sector Project (RSTDSP)

Reporting Period: April 2024 to September 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 April 2024 to September 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 September 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 & Ratangarh (Drainage) under single contract as package no. RSTDSP/4 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. Five subprojects, Namely Bundi city beautification, Pushkar city beautification and Mount Abu city beautification, Nathdwara city beautification and Nawalgarh city beautification are under bidding process.

7. IEEs of all 19 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 (April 2024 to September 2024), orientations for environmental safeguard requirements were done in 7 towns, namely Bharatpur, Dungarpur, Sagwara, Bhawani Mandi, Ratangarh, Bundi, Jodhpur 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 Bharatpur, Dungarpur, Sagwara, Bhawani Mandi, Ratangarh, Bundi, Jodhpur towns at different work sites to contractors' site supervisors, labours and operators.

9. Contractors have submitted the Site-Specific Environment Management Plans (SEMPs) in pre-construction phase of each sub project towns, from which SEMP for Nathdwara (WS), Nimbahera (WS), Bundi (WS& WW), Bharatpur (WW), Dungarpur (WS & WW), Sagwara (WS & WW) Ratangarh, Nawalgarh, Bundi & Bhawani Mandi (Drainage) sub project towns are approved and SEMP of Jodhpur Nokha, Barmer, Balotra, Jaisalmer, Sagwara & Bharatpur (City Beautification works) are under review by PIU & PMU and will be followed in construction works. These SEMP also include Solid Waste and Spoil Management Plan, Traffic Management Plan, Health and Safety Plans, Workers camps plans, COVID-19 prevention and control plan, Asbestos Management Plan etc.

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

11. 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 4 towns (Bharatpur 9.4 MLD STP, Bundi 6.5 MLD STP, Nathdwara 11 MLD WTP & Nimbahera 5.74 MLD WTP) were already obtained during last reporting period (October 2023 to March 2024) and CTEs for 4 towns (Nokha 5 MLD STP, Dungarpur 4

MLD STP, Sagwara 3.6 MLD STP, Bundi 8 MLD WTP) are obtained and CTE applied for 5 MLD STP, Jodhpur during this reporting period (April 2024 to September 2024). CTO will be obtained prior to commissioning of plants. Up to September 2024, total 9 applications for CTEs for STPs and WTPs were submitted out of which 8 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 already 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 (April 2024 to September 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**

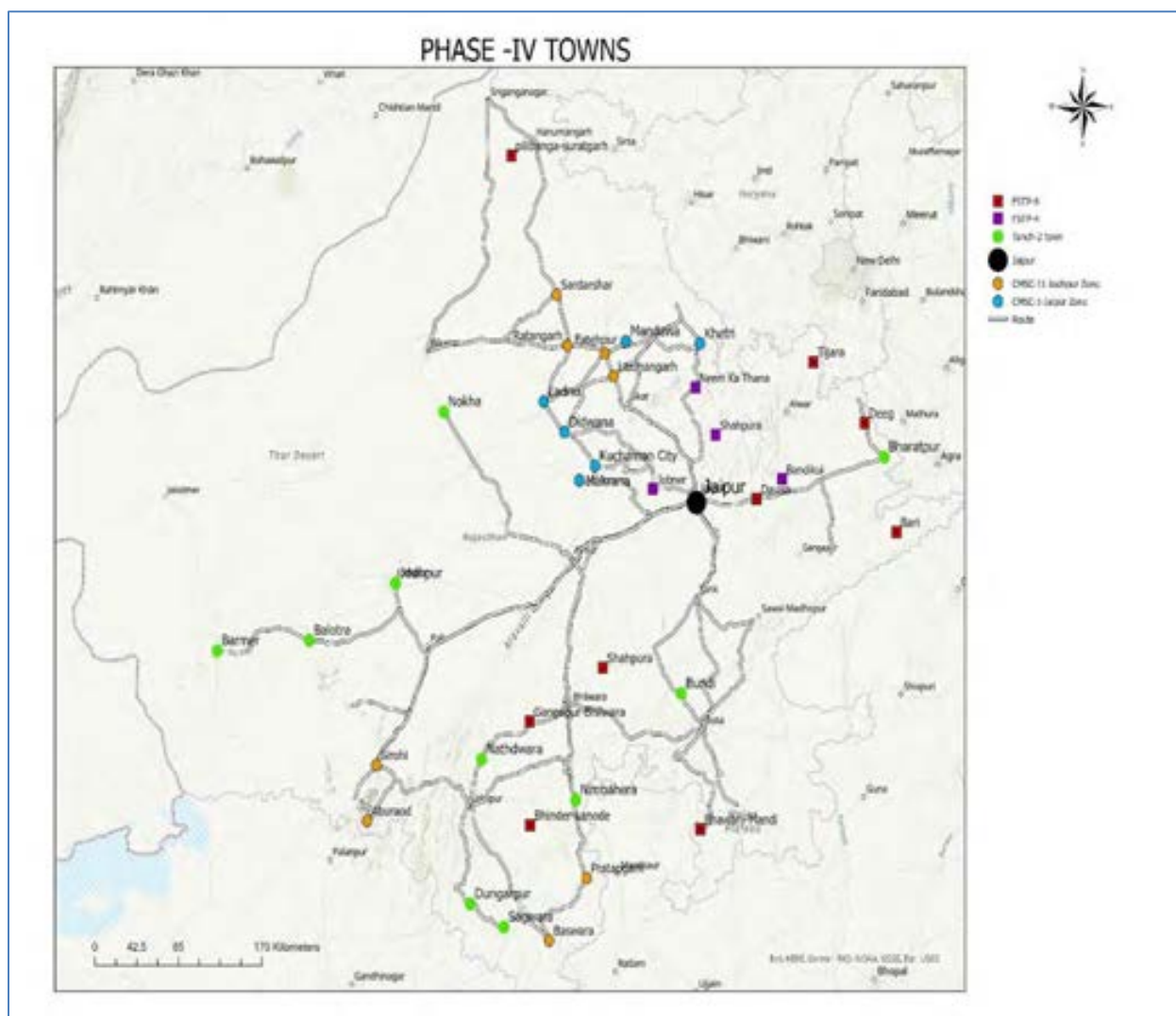
Name of Official	Location	Designation	Contact Details
PMU & PMCBC at Jaipur			
Ms. Poornima Mahlawat	PMU, Jaipur	Project Officer (Env)	7665112361
Mr. Ankit Kumar Chaudhary	PMU, Jaipur	Assist.Project Officer (Env)	9460036504
Dr. Surendra Nagdali	PMCBC, Jaipur	Environment Safeguard Specialist, PMCBC	Mob. -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. Satya Narayan Verma	PIU, Nimbahera	SSO, PIU, Nimbahera	9024361801
Mr. Kush Kumar	PIU, Bundi	SSO, PIU, Bundi	9079395164
Mr. Surendra Kumar jaat	PIU, Ratangarh	SSO, PIU, Ratangarh	8058939688
Mr. Nootan Prakash Saini	PIU, Nawalgarh	SSO, PIU, Nawalgarh	9782772524
Mr. Devmitra	PIU, Bhawanimandi	SSO, PIU, Bhawanimandi	9166918929
Mr. Nemi Chand Panwar	PIU, Bharatpur	SSO, PIU, Bharatpur	8619613736
Mr. N.S. Chaudhary	PIU, Barmer	SSO, PIU, Barmer	9414085336
Mr. Shashikant Sharma	PIU, Balotra	SSO, PIU, Balotra	9460202989
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 (Water Supply & Wastewater works)	Mr Yogendra	9413119554	M/s MCPL - PRGL JV
2.	Jodhpur (Wastewater works)	Mr Jai Prakash	9785846090	M/s Eagle Infra India Limited
3.	Jodhpur (Drainage works)	Mr Sailesh Chaudhary	94623 81580	M/s SMCC-AG JV
4.	Dungarpur (Water Supply & Wastewater works)	Mr Pankaj Saini	9351799436	M/s Eagle Infra India Limited
5.	Sagwara (Water Supply & Wastewater works)	Mr Rajan Khan	9576532663	M/s Eagle Infra India Limited
6.	Nathdwara (Water Supply works)	Mr. Ashutosh Kumar	8861200971	M/s Khilari Infra structure Pvt Ltd.
7.	Nimbahera (Water Supply works)	Mr Dev Singh	7691027212	M/s Khilari Infra structure Pvt Ltd.
8.	Ratangarh (Drainage works)	Mr. Abey Arraham	9783069990	M/s RGI - RBI PL JV
9.	Barmer (Wastewater works)	Mr Dungar Singh	99833 68267	M/s GCKC Projects Pvt Ltd
10.	Balotra (Water Supply & Wastewater works)	Mr. Ajay Nagar	8279296159	M/s GCKC Projects Pvt Ltd
11.	Jaisalmer (City Beautification works)	Mr. Mahendra Dan	88757 92610	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 (Water Supply & Wastewater works)	Mr. Rahul Saini	8059474713	M/s Khilari Infra structure Pvt Ltd.
14.	Bundi (Drainage works)	Mr. Abdul Jabbar	8955288289	M/s RGI - RBI PL JV
15.	Bharatpur (Wastewater works)	Mr. Shyampal Rajput left the project	8859644600	M/s SMCC-AG JV
		Mr Mehrudin joined on 15.04.2024	6377381551	M/s SMCC-AG JV
16.	Bharatpur (City Beautification works)	Mr. Yogendra Singh	8005642254	M/s Khandelwal Construction
17.	Nawalgarh (Drainage works)	Mr. Shibu Mandal	9064792053	M/s RGI - RBI PL JV
18.	Bhawani Mandi (Drainage works)	Mr. Abdul Jabbar	8955288289	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 (Sewerage), Jodhpur (Drainage), Bharatpur (Sewerage), 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 Khandeailwal 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	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
	Abu City 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 30.09.2024)

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			✓		39.0 %
2	Bundi	Package No.: RSTDSP/3 Towns/WS-WW/01 Lot No.: RSTDSP/BUN/01	Water supply & Wastewater Subproject			✓		26.5 %
3	Bundi	Package No.: RSTDSP/4 Towns/DR/01 Lot No.: RSTDSP/BUN-BHM/DR/01	Drainage Subproject			✓		18.9 %
4	Bhawani Mandi	Package No.: RSTDSP/4 Towns/DR/01 Lot No.: RSTDSP/BUN-BHM/DR/01	Drainage Subproject			✓		25.87 %
5	Bharatpur	RSTDSP/BHR/CTYBF/01	City Beautification Subproject			✓		70.0 %
6	Nawalgrh	Package No.: RSTDSP/4 Towns/DR/01 Lot No.: RSTDSP/NAW-RAT/DR/01	Drainage Subproject			✓		22.1 %
7	Dungarpur	Package No.: RSTDSP/DNG-SGW/WS-WW/01 Lot No.: RSTDSP/DNG /WS-WW/01	Water Supply & Wastewater Subproject			✓		35.7 %
8	Sagwara	Package No.: RSTDSP/DNG-SGW/WS-WW/01 Lot No.: RSTDSP/SGW/WS-WW/01	Water Supply & Wastewater Subproject			✓		34.8 %
9	Nokha	RSTDSP/NKH/01	Water Supply & Wastewater Subproject			✓		50.3 %

S. No.	Sub-Project Towns	Package Number	Type of Works*	Status of Sub-Project				Progress of Works**
				Design	Pre-Construction	Construction	Operation Phase	
10	Nathdwara	Package No.: RSTDSP/3 Towns/WS-WW/01 Lot No.: RSTDSP/NTD/01	Water Supply Subproject			✓		41.0 %
11	Nimbahera	Package No.: RSTDSP/3 Towns/WS-WW/01 Lot No.: RSTDSP/NBH/01	Water Supply Subproject			✓		44.2 %
12	Jodhpur	RSTDSP/JOD/01	Wastewater Subproject			✓		70.0 %
13	Jodhpur	RSTDSP/JOD/02	Drainage Subproject			✓		33.1 %
14	Ratangarh	Package No.: RSTDSP/4 Towns/DR/01 Lot No.: RSTDSP/NAW-RAT/DR/01	Drainage Subproject			✓		42.2 %
15	Barmer	Package No.: RSTDSP/BAR-BLT/WS-WW/01 Lot No.: RSTDSP/BAR/WW/01	Wastewater Subproject			✓		14.5 %
16	Balotra	Package No.: RSTDSP/BAR-BLT/WS-WW/01 Lot No.: RSTDSP/BLT/WS-WW/01	Water supply & Wastewater Subproject			✓		20.3 %
17	Sagwara	RSTDSP/SGR/CTYBF/01	City Beautification Subproject			✓		8.3 %
18	Jaiselmer	RSTDSP/JSL/CTYBF/01	City Beautification Subproject			✓		21.0 %
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 30.09.2024**Town: Bharatpur (Wastewater works) Sub Project**

Contract description	Cumulative Progress of works up to 30.09.2024		
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- 39.0 % Stipulated Date of completion of Design Build- 21-02-2026	Wastewater works		
	Item Description	BoQ Scope	Progress
	STP-01 (Near Existing STP – Nagla Gopal)	9.4 MLD (1 Nos.)	• Total 41 Drawing approved in CAT-02 out of 48 (Total Scope) • Air Blower Procured and Stacked at Site. • Decanter & Diffuser Stacked at Site • TEER raft & 1st & 2nd Brace completed. Column casting work is in progress. • Admin building stair casting work is in Progress • SBR CCT inner main wall reinforcement, Shuttering & Casting work is in progress.
	SPS (03 Nos.)	SPS-01; 0.81 MLD (Near Nai Mandi Samsan)	• Total 35 Drawing approved in CAT-02 out of 35 (Total Scope) and. • Sump well PCC work completed. Meter & Guard room slab casting and plaster work is Completed. • Sluice Gate / Coarse Screen & Sewage Pump Staked at Site.
		SPS-03; 1.65 MLD (Near Mukharjee Nagar (R.N.F.C.D Bridge)	• Total 35 Drawing approved in CAT-02 out of 35 (Total Scope). • Sump well column DE shuttering work & Column reinforcement binding work is in progress • EOT Column reinforcement binding work & Beam reinforcement work is completed. • Control room slab casting, Brick Work completed and Plaster work is completed curing work is in progress. • Sluice Gate / Coarse Screen & Sewage Pump Staked at Site.
		SPS-04; 2.25 MLD (Near Complex –UIT work Shop Scheme, Deeg Road)	• Total 35 Drawing approved in CAT-02 out of 35 (Total Scope). • Sump well sinking/ PCC & raft work is Completed. Control & Guard room Bricks Masonry & Plaster work completed. • Sluice Gate / Coarse Screen & Sewage Pump Staked at Site.
	Lateral sewer (up to dia 315)	80.267 Km	a) Supply: 41.408 km b) Laid: 24.617 km c) Testing: 16.50 km d) Deflection test: 7.8 Km e) Commissioning- 0 km
	Outfall (above dia 315)	0.772 Km	a) Supply: 0.084 km. (Total) b) Laid: 0.042 Km

		c) Testing: 0.0 Km d) Commissioning
PVC-U pipe (110 & 160 mm dia)	53.150 Km	a) Supply: - 18.21 km b) Laid: - 7.212 km c) Testing: 4.510 Km d) Commissioning: -
Manholes (All types)	3543 Nos.	a) Supply: 1569 Nos b) Installation: - 966 Nos c) Testing: - 993 Nos d) Commissioning: -
Inspection Chamber (All types)	6027 Nos.	a) Supply: 3006 Nos b) Installation: - 1875 Nos c) Testing 1759 nos. d) 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	a) Supply: - 4.746 km b) Laid: - 4.632 km. c) Testing: - 0.0 Km. d) 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: 8.388 b) BT: 7.234 c) WMM: - 1.562 Km d) Kaccha: 2.843 Km	a) CC: 7.284 km (up to CC); b) BT: 1.750 Km; c) WMM: - 1.562 km d) Kaccha – 2.843 Km	a) CC: - 1.104 km b) BT: - 5.484 km c) WMM: - 0Km Kaccha: -0

Town: Bundi (Water Supply & Wastewater) Sub Project

Contract description		Cumulative Progress of works up to 30.09.2024		
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- 26.5 % Stipulated Date of completion of Design Build- 14.12.2024	Wastewater Work:			
	Item Description	BoQ Scope	Progress	
	STP-01; 6.50 MLD	(1 Nos.)	• Metering & Guard room plastering work completed. • Staff quarter up to slab level completed and final finishing work in progress. • Sludge Storage yard column completed and shed erection work completed; • TEER- RCC work completed final finishing work in progress, • ADM Building ground floor slab completed and brick work and plastering work in progress. • MPS vertical wall 11th lift Completed, MPS inlet channel final lift wall completed, • SBR wall completed upto 2nd lift.	
	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: - 13.016 km • Testing: - 11.53 km • Commissioning: - km	
	HDPE pipe	30.8 Km	• Supply: -18.65 km • Laid: - 13.016 km • Testing: - 11.53 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: - 2381 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 30.09.2024	
		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.	• Metering Guard room plastering work in progress. • ADM unit up to slab level completed and brick work in progress, CLF-1 & CLF-2 RCC completed up to 3rd lift and 2nd lift wall. • Chlorination mixing chamber raft and 2nd lift wall RCC completed. • Site staff quarter slab completed upto first floor slab, Sludge thickener excavation work in progress and thickened sludge sump Raft RCC work completed.
	Pump house	01 Nos	• Survey work completed & only E&M work in scope
	CWR (1200 KL)	01 Nos	• RCC work completed up to Top Dome.
	OHSR (450 KL)	01 Nos	• Civil work completed.
	Rehab work (WTP, PH, CWR, OHSR etc.)	GLSR- 04 Nos CWR- 03 Nos PH- 02Nos HW- 01Nos	GLSR 4 Nos. Rehab work completed, Rehab work in progress at Mangli CWR.
	For Road Cutting & Restoration-		
	Item Description	BoQ Scope	Progress
	Road cutting	a) CC: - 27.0 km b) BT: - 3.80 km c) Kuchha/WMM: - 0.200 Km	a) CC: - 13.04 km b) BT: - 0.0 km c) Kuchha/WMM: - 0.200 Km
	Road restoration	a) CC: - 27.0 km b) BT: - 3.80 km c) Kuchha/WMM: - 0.200 Km	a) CC: 12.849 km (up to PCC); 12.849 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: - 13.04 km b) BT: - 0.0 km c) Kuccha/WMM: - 0.0 km	Balance work a) CC: - 0.191 km b) BT: - 0.0 km Kuccha/WMM: - 0.0 km

Town: Bundi (Drainage works) Sub Project

Contract description	Cumulative Progress of works up to 30.09.2024		
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- 18.9 % 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	2.241 Km
	Precast Box Laying	6.53 km	1.506 Km
	Cast in situ	4.25 km	0.483 km- (Wall RCC work is in progress between chainage 180-720)
	Stone pitching	3.43 km	Excavation work in progress between Ch. -3440 to 5909
	For Road Cutting & Restoration-		
	Road cutting	Road restoration	Balance Road restoration
	CC: 0.0 km BT: 0.0 km Kuchha/WMM: 0km	CC: 0.0 km BT: 0.0 km Kuchha/WMM: 0km	CC: 0.0 km BT: 0.0 km Kuchha/WMM: 0km

Town: Bhawani Mandi (Drainage works) Sub Project

Contract description	Cumulative Progress of works up to 30.09.2024		
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- 25.87 % 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 175 mtr - PCC – 160 mtr - Raft – 150 mtr - Wall – 150 mtr - minor work is in progress
	ii) New Drain construction	50.35 Km	- Excavation- 3350mtr - PCC – 3275 mtr - Raft – 3250 mtr - Wall – 3210 mtr - Crossing 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 Work) Sub Project

Contract description	Cumulative Progress of works up to 30.09.2024		
Package no - RSTDSP/BHR/CTYBF /01 Works under package- 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. 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- 70.0 % 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.	• Electrical Work is in Progress at Town Hall. • Cobble work at Main Gate side is in Progress. • Red stone flooring work at town hall is in progress. • Rang Manch truss column work is completed • Front Wall Brick Masonry work is in Progress. • Toilet Brick Masonry Work is completed. • AC Ducting work is in progress.
	Development & Beautification Works - Brijendra Bihari Kund	1 Nos.	• Wall-D Red Stone step flooring work is in progress. • Kund Railing work is in progress. • Cobble work in kund campus work is in progress. • Retaining Wall Stone Masonry Work is completed and lime plaster work is in progress. • Brick Masonry work at Wall-A Side is completed. • Stair brick Masonry work at Wall-A Side is completed. • Stairs Melding work is in completed.
	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.	• Railing work at Nehru Park is in Completed. • Front wall dasa work is in completed. • Red Stone Flooring work is in progress. • Walk Way Work is completed. • Grassing with 'Doobs' work is in completed. • Planting permanent Hedges plants work is in Progress. • Electric Pole Wiring work is complete.
	Façade Lighting & Illumination of Laxman Mandir, Ganga Mandir & Jama Masjid	1 Nos.	• Laxman Mandir: - Lighting work completed. • Ganga Mandir: - Lighting Work Completed. • Jama Masjid: - Lighting work is in Progress.
	Façade Lighting & Illumination of City Gates.	1 Nos.	• Nimda Gate: - Lime Kara work Completed. • Atal Bandh Gate: - Lime Kara work Completed. • Wiring work at all city gates

Town: Nawalgarh (Drainage works) Sub Project

Contract description	Cumulative Progress of works up to 30.09.2024		
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- 22.1 % 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: 2185.50mtr Balance: 1214.50mtr
	DI K-7 Pipe (Pumping Main)	2150 mtr	Supply: 2146.50 mtr Laid: 1699.5mtr Balance: 450.5mtr
	Precast RCC Circular Manholes	68 Nos.	Supply: 68 Nos. Laid: 34 Nos. Balance: 34 Nos.
	Storm Water Pumping Station (38.77 MLD)	1 No.	GAD/Hydraulic Design of SWPS is Approved.
	Stepwell at Bakra Mandi	1 No.	GAD of Stepwell is approved.
	Storm Water Collection Chamber	3 No.	Design drawing is approved.
	Development of Dedhana Johad	1 No.	-
	For Road Cutting & Restoration-		
	Road cutting	Road restoration	Balance Road restoration
	Kachha- 1575.00 mtr ITL- 68.50 mtr CC- 2219.00mtr BT- NIL	Kachha- 1575.00 mtr ITL- 68.50 mtr CC- 560.00 mtr CC (By PWD)- 1580.00mtr	Kachha- 0.00 mtr ITL- 0.00 mtr CC- 79.00 mtr CC (By PWD)-

Town: Dungarpur (Water Supply & Wastewater) Sub Project

Contract description	Cumulative Progress of works up to 30.09.2024		
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- 35.7% Stipulated Date of completion of Design Build- 21-01-2026	Water supply Work:		
	Item	Scope	Progress
	Total Distribution network	190.521 KM	
	DI Pipe K7	160.291 Km	• Supply: - 52.220 km • Laid: - 49.049 km • Hydro Testing: - 35.120 km • Commissioning: - 0 km
	DI Pipe K9	30.230 Km	• Supply: - 17.958 km • Laid: - 0 km • Hydro Testing: - 0 km • Commissioning: - 0 km
	House Service connection	12067 nos	• Laying/installation: - 1295 Nos • Testing: - 0 Nos • Commissioning: - 0 Nos
	Domestic Water meter	12067 nos	• Installation: - nos
	WTP	NIL	• Work not started
	Pumping Station (Uday vilas)	1-nos	• Work to be started
	Pumping Station (MPH office)	1-nos	• Work to be started
	Pumping Station (Chandpole)	1-nos	• Work to be started
	Pumping Station (New Colony)	1-nos	• Work to be started
	Pumping Station (Bori)	1-nos	• Work to be started
	Pumping Station (Bori Raw Water)		• Work to be started
	No. of DMAs	17 Nos.	
	CWR- 2 Nos.	CWR-550KL Chandpol Pump House	• Circular Wall 4th Lift Reinforcement work is in under progress.
		CWR-600 KL (New Colony)	• Circular Wall 4th Lift Reinforcement work is in under progress.
	Population benefitted due to commissioned	55630 Nos	
	Wastewater Work:		
	STP (SBR Technology)	4.00 MLD	• SBR: - Central Wall 3rd lift RCC work completed and outer wall 4thLift Reinforcement in under progress

Contract description	Cumulative Progress of works up to 30.09.2024		
			• Admin Building: -Column above Plinth Beam Reinforcement work in under progress. • TESR: - circular wall 4th lift work complete. • TEER: - Top Dome Reinforcement work under progress. • CCT: - Excavation work in under progress.
	SPS -01 (Near Kine House of Nagar Parishad)	3.00 MLD	Sump Circular wall 6th lift Reinforcement work under progress. Inlet Chamber 3rd lift Reinforcement work in under progress.
	SPS -02 (Sabela Bypass, Near Aashram Vatika)	3.00 MLD	• GAD Drawing is Approved. • Structural Drawing is Approved • Compound Wall work completed
	SPS -03 (Between RICCO and Gap Sagar)	0.25 MLD	Sump circular wall 2nd lift Reinforcement work under progress.
	Lateral sewer (up to dia 300 HDPE-DWC)	56.793 Km	• Supply: - 38.00 km • Laid: - 35.310 km • Testing: - 32.150 km • Deflection test: - 25.440 Km • Commissioning- 0 km
	NP4 (above Dia 300 RCC)	2.469 Km	• Supply: 0.00 km • Laid: 0.00 km • Testing: - 0.00 Km • Commissioning: - 0 km
	PVC-U pipe (110- & 160-mm Dia)	57.37 Km	• Supply: - 32.997 km • Laid: - 9.565 km • Testing: - 6.230 km • Commissioning: - 0.00 km
	Manholes (All types)	Total= 3983 Nos Precast RCC MH=3593 Sewer-Brick MH=390	• Supply: - 1700 Nos • RCC Manhole Installation: 1563 Nos • Sewer Brick Manhole Installation- 0 Nos • Total Installation: - 1563 • Testing: - 1460 Nos • Commissioning: - 0 Nos
	Sewer Brick Manhole -	390 nos	Work not started
	Inspection Chamber (All types)	6460 nos	• Supply: - 2400 Nos • Installation: 2054 Nos • Testing: - 1790 Nos • Commissioning: - 0 Nos

Contract description	Cumulative Progress of works up to 30.09.2024		
	HSC	6460 nos	Work not started
	HDPE pipe	4.533 Km	• Supply: - 1.265 km • Laid: - 0 km • Testing: - 0 km • Commissioning: - 0 km
	For Road Cutting & Restoration-		
	Road cutting	Road restoration	Balance Road restoration
	CC: - 19.157 km BT: - 21.029 km Kuccha/WMM: - 8.863 km Interlock Tiles: - 0 km	CC: - (up to PCC): - 18.776 km (up to CC): - 18.263 km BT: - (up to WMM): - 20.381 km (up to BT): - 20.051 km Kuccha/WMM: - 8.863 km Interlock Tiles: - 0.0 km	CC: - (up to PCC): - 0.381 km (up to CC): - 0.894 km BT: - (up to WMM): - 0.648 km (up to BT): - 0.978 km Kuccha/WMM: - 0.0 km Interlock Tiles: - 0.0 km
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	Above Plinth Beam Column Reinforcement work in Under Progress.
	PLC SCADA	-	SCADA Will be Procured after Completion of Civil work of STP

Town: Sagwara (Water Supply & Wastewater) Sub Project

Contract description	Cumulative Progress of works up to 30.09.2024		
Package No.: RSTDSP/DNG-SGW/WS-WW/01 Lot No.: RSTDSP/SGW/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- Design, Build and Operate Date of Start- 23-01-2023 Cumulative Physical Progress- 34.8 % Stipulated Date of completion of Design Build- 21-01-2026	Water Supply Work:		
	Item	Scope	Progress
	Total Distribution Network	126.316 Km	
	HDPE pipe	69.942 Km	• Supply: 67.91 Km • Laid: - 60.942 Km • Hydro Testing: 45.32 Km • Commissioning: 0 Km
	DI Pipe K7	46.94 Km	• Supply: 19.127 Km • Laid: - 10.266 Km • Hydro Testing: 6.230 Km • Commissioning: 0 Km
	DI Pipe K9	9.43 Km	• Supply: 2.712 Km • Laid: - 1.550 Km • Hydro Testing: 0 Km • Commissioning: 0 Km
	House Service connection	5504 nos	• Laying/Installation: 956 Nos. • Testing: 0 Km • Commissioning: 0 Km
	Domestic Water meter	5504 nos	• Laying/Installation: 0 Nos. • Testing: 0 Km • Commissioning: 0 Km
	Pumping Station (Punarvas colony)	1-nos	• Work to be started
	CWR-1 (MPH)	1-nos	• BEP drawing is approved & GAD drawing is submitted at PMCBC for review and approval.
	Population benefitted due to commissioned: 32256		
	Wastewater Work:		
	STP (SBR Technology)	3.60 MLD	• SBR: - central wall and outer wall 2nd lift Reinforcement under progress
	SPS -01 (Punarvas Colony)	1.00 MLD	• Encroachment by local Public.
	Lateral sewer (up to dia 300 HDPE-DWC)	41.783 km	• Supply: 26.390 km • Laid: - 25.639 Km • Testing: 24.939 km • Deflection test: 10.560 km • Commissioning: 0 Km
	NP4 (above Dia 300 RCC)	0.643 Km	• Supply: 0 km • Laid: - 0 Km • Testing: 0 km • Commissioning: 0 Km
	PVC-U pipe (110- & 160-mm Dia)	38.45 Km	• Supply: 14.0 km • Laid: - 7.128 Km • Testing: 5.250 km

Contract description	Cumulative Progress of works up to 30.09.2024		
			Commissioning: 0 Km
	Manholes (All types)	Total: 1984 Nos. RCC Precast MH- 1789 Nos. Sewer Brick MH: 195 Nos..	- Supply: 1115 Nos. - RCC Manhole Installation: 1006 Nos. - Sewer Brick MH Installation: 0 Nos. - Total Installation: 1006 Nos. - Testing: 805 nos. - Commissioning: 0 Km
	Inspection Chamber (All types)	4215 nos	- Supply: 1850 nos. - Installation: 1560 Nos. - Testing: 1121 nos. - Commissioning: 0 Km
	HSC	4215 nos	Work not started
	For Road Cutting & Restoration-		
	Road cutting	Road restoration	Balance Road restoration
	CC:28.452 km BT: 40.790 Km Kachcha/WMM: 29.155 Km Interlock: 0 Km	CC: (up to PCC): 29.112 Km (up to CC): 27.903 km BT: (up to WMM): 39.626 Km (up to BT): 39.480 km Kachcha/WMM: 29.155 km Interlock: 0 km	CC:0.548 km BT:1.310 km Kacha/WMM: 0 km Interlock: 0 km
	Building and Miscellaneous work		
	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	-	SCADA will be procured after completion of civil work of STP.

Town: Nokha (Water Supply & Wastewater) Sub Project

Contract description		Cumulative Progress of works up to 30.09.2024		
Package no: RSTDSP/NKH/01 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- 50.3 % Stipulated Date of completion of Design Build- 10-10-2025	Water Supply Work:			
	Item	Scope	Progress	
	Total distribution network : 313.96 km			
	HDPE pipe	295.61 Km	• Supply: 282.67 km • Laid: 280.15 km • Testing: 278.90 km • Commissioning: 0 km	
	DI Pipe K7	0.51 Km	• Supply: 0.51 km • Laid: 0 Km • Testing: 0 Km • Commissioning: 0 Km	
	DI Pipe K9	17.84 Km	• Supply: 17.20 km • Laid: 16.78 Km • Testing: 16.35 Km • Commissioning: 0 Km	
	House Service Connection	14230 nos.	• Laying/installation: 8690 nos. • Testing: 8690 nos. • Commissioning: 0 nos.	
	Domestic Water meter	14230 nos.	• Supply: 13510 nos. • Installation: 5987 nos. • Testing: 5987 nos. • Commissioning: 0 nos.	
	Pressure transmitters	105 Nos.	• Supply: 0 nos. • Installation: 0 nos. • Testing: 0 nos. • Commissioning: 0 nos.	
	No. of DMAs	18 Nos.	•	
	Pump House	1.Raisar Campus	• Civil work is completed, Fabrication work in progress. (76.0 %)	
		2.Ranarao Campus	• Civil work is completed, Fabrication work in progress (79.0 %).	
		3.AEN Campus	• Bar-Binding & Shuttering for 4 th loft of wall in progress. (31.0 %)	
		4.Bagdi Campus	• Brick work for Parapet wall in progress. (58.0%)	
		5.Teja Mandir Campus	• Shuttering in progress for slab. (53 %)	
	CWR	1100 KL (Raisar H/W)	• Fabrication work in progress. (80.0 %)	
		500 KI (Ranarao H/W)	• Fabrication work in progress. (80.0 %)	
		150 KL (A.En. H/W)	• Civil work is completed, Fabrication work in progress. (78.0 %)	
	Population benefitted: 81239			

Contract description	Cumulative Progress of works up to 30.09.2024																
	Wastewater Work																
	STP	5 MLD	• Admin Building – Slab Bar Binding & Shuttering in progress. • SBR- Shuttering & Bar Binding in progress for walkway slab. • TEER- Fabrication work in progress. • PTU- Wall shuttering for slab in progress. • Staff Quarter- Civil work completed. • Meter room & Guard Room- Civil work completed.														
		7 MLD	Work not Started Yet Due to SIP under approval for new proposal.														
	SPS	4 MLD	Wet Well - Civil work completed. PLCC & SCADA Room - Civil work completed. Guard Room - Civil work completed.														
	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-																
<table><tr><th>Road cutting</th><th>Road restoration</th><th>Balance Road restoration</th></tr><tr><td>CC: 0 km BT: 93.56 Km WMM: 93.56 km</td><td>CC: 0 km BT: 93.15 Km WMM: 93.40 km</td><td>CC: 0 km BT: 0.41 Km WMM: 0.16 km</td></tr></table>			Road cutting	Road restoration	Balance Road restoration	CC: 0 km BT: 93.56 Km WMM: 93.56 km	CC: 0 km BT: 93.15 Km WMM: 93.40 km	CC: 0 km BT: 0.41 Km WMM: 0.16 km									
Road cutting	Road restoration	Balance Road restoration															
CC: 0 km BT: 93.56 Km WMM: 93.56 km	CC: 0 km BT: 93.15 Km WMM: 93.40 km	CC: 0 km BT: 0.41 Km WMM: 0.16 km															
Building and Miscellaneous work																	
<table><tr><th>Item Description</th><th>Scope of Work</th><th>Progress made so far</th></tr><tr><td>CSC Centre</td><td>1</td><td>Civil work completed. (90.0%)</td></tr><tr><td>CCC Building</td><td>1</td><td>Civil work completed. (90.0%)</td></tr><tr><td>MCC Building</td><td>1</td><td>Civil work completed. (75.0%)</td></tr><tr><td>PLC SCADA</td><td>-</td><td></td></tr></table>			Item Description	Scope of Work	Progress made so far	CSC Centre	1	Civil work completed. (90.0%)	CCC Building	1	Civil work completed. (90.0%)	MCC Building	1	Civil work completed. (75.0%)	PLC SCADA	-	
Item Description	Scope of Work	Progress made so far															
CSC Centre	1	Civil work completed. (90.0%)															
CCC Building	1	Civil work completed. (90.0%)															
MCC Building	1	Civil work completed. (75.0%)															
PLC SCADA	-																
Trenchless work:																	
<table><tr><th>Item Description</th><th>Scope of Work</th><th>Progress made so far</th></tr><tr><td>MS casing pipe (Railway crossing)</td><td>30 meter</td><td>Supply: 30 meter Laid: 30 meter Testing: 0 m Commissioning: 0 m</td></tr></table>			Item Description	Scope of Work	Progress made so far	MS casing pipe (Railway crossing)	30 meter	Supply: 30 meter Laid: 30 meter Testing: 0 m Commissioning: 0 m									
Item Description	Scope of Work	Progress made so far															
MS casing pipe (Railway crossing)	30 meter	Supply: 30 meter Laid: 30 meter Testing: 0 m Commissioning: 0 m															

Town: Nathdwara (Water Supply) Sub Project

Contract description	Cumulative Progress of works up to 30.09.2024			
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 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- 41.0% Stipulated Date of completion of Design Build- 14.12.2025	Water Supply Work:			
	Item	BOQ Scope	SIP Scope (under approval)	Progress
	Total Distribution Network	144.883 km	156.39 Km	
	DI Pipe K7	137.133 km	148.274 Km	a) Supply: - 70.234 Km b) Laid: - 57.628Km c) Hydro Testing: - 54.679 Km d) Commissioning:- Nil
	DI Pipe K9	7.750 km	8.116 Km	a) Supply: - 7.444 Km b) Laid: - 2.179 Km c) Hydro Testing: - 1.661 Km d) Commissioning:- Nil
	House Service Connection	9940 Nos.	11138 Nos.	a) Laying/install: -1538 Nos. (installation up to Household Building without Water Meter, connection will be done at the time of DMA commissioning) b) Commissioning:- Nil
	Domestic Water meter	9940 Nos.	11138 Nos.	a) Supply: - 4600 Nos b) Installation: - Nil c) Commissioning: - Nil
	INTAKE (11 MLD at Intake Well Nand samand Dam)	1 No.	1 No.	Civil Work: - Approach Bridge Slab work completed up to 3rd Expansion joint, Intake slab and walk way completed, Pumping Station column 2nd lift completed and Brick work in progress, Approach Bridge Hand railing work in progress. EMI Work:- Start after completion of civil work.
	WTP (11 MLD WTP at Nand samand Dam)	1 No.	1 No.	1. 1500 KL CWR: - Civil work completed, Hand railing completed and Hydro test work in progress. 2. Chlorine Contact Tank: - Civil work completed and Hydro test work in progress. 3. Tube Settler: - Civil work completed. 4. Sludge Sump: - 5 th lift completed & Slab completed. 5. Recycle Water Sump: - 5 th lift completed & Slab completed.

Contract description	Cumulative Progress of works up to 30.09.2024			
				6. Filter Sump: - Slab completed. 7. Sludge Storage Yard: - Civil Work Completed. 8. Sludge Thickener: - Civil Work Completed. 9. Chlorination Building: - Civil Work Completed. 10. Clarifloculator-1: - Inner wall completed Outer Side 3rd lift wall & Launder Channel completed, final lift and walk way reinforcement work in progress. 11. Clarifloculator-2: - Inner wall completed, Launder Channel completed, final lift & walk way completed. 12. Chemical & Dewatering Building: - Column completed up to bottom of roof beam and PACL Storage tank lift completed and brick completed, roof slab shuttering work in progress. 13. Admin Building: - Footing completed, plinth beam completed, column & beam completed up to bottom of roof beam. 14. Guard Room: - Column and brick work and slab work completed and curring work in progress. 15. Thickened Sludge Sump: - Raft completed and wall 3rd lift completed and 4th lift reinforcement shuttering work in progress. 16. Cascade Aerator: - Center shaft completed and Column 1st lift completed. 17. Backwash Water Tank: - Excavation, PCC and Raft Completed, 2nd lift completed and 3rd lift reinforcement and shuttering work in progress. 18. Filter House: - Excavation completed, PCC Completed and raft reinforcement and shuttering work in progress. 19. Staff Quarter: - Excavation completed and footing completed and PCC below plinth beam work in progress.

Contract description	Cumulative Progress of works up to 30.09.2024			
				EMI Work:- Start after completion of civil work.
	CWR (900 KL CWR at Ganesh Tekari)	1 No.	1 No.	Civil work completed and finishing work in progress.
	1500 KL Capacity OHSR at Nathuwas	1 Nos	1 Nos	Top Dome complete, Plinth protection completed and epoxy paint work in progress. EMI Work: -SIP Finalization in Progress.
	300 KL Capacity OHSR at Bhandari Bawri	1 Nos	1 Nos	Top Dome completed, Curing work in progress. EMI Work: -SIP Finalization in Progress.
	Pump House- Nandsamand	1 No	1 No	PCC & Raft Completed. Wall 4th lift completed and 5th lift reinforcement and shuttering work in progress and Footing completed column reinforcement work in progress.
	Refurbishment Work	11 Nos. OHSR 1 No. CWR (450 KL)		Work in progress at Zone- 5 & 13
Population benefitted due to commissioned: 49590				
For Road Cutting & Restoration-				
Road cutting		Road restoration		Balance Road restoration
a) CC: - 30.777 Km b) BT: - 21.812Km c) Kachha/Interlock:- 7.218Km		a) CC: 29.778 km (Upto PCC); 29.778 km (Upto CC) b) BT: 21.420Km (Upto WBM); 21.182 Km (Upto BT) c) Kachha/Interlock:- 7.218 Km		a) CC: - 0.999Km b) BT: - 0.630 Km c) Kacha/Interlock :- 0 Km
Building and Miscellaneous work				
Item Description	Scope of Work	SIP Scope	Progress made so far	
CRMC-1 Building at Nathuwas	1 Nos	1 Nos	Civil work completed.	
CRMC-2 Building at Imli Chowk	1 Nos	1 Nos	Civil work completed.	
MCC Building(MCC Building at Nansamand)	1 No	1 No	Column & Brick work completed upto bottom of roof beam, Slab Casting completed, curing work in progress.	
PLC SCADA at WTP	-	-	-	

Town: Nimbahera (Water Supply) Sub Project

Contract description	Cumulative Progress of works up to 30.09.2024		
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- 44.2% Stipulated Date of completion of Design Build- 14.12.2025	Water Supply Work:		
	Item	Scope	Progress
	Total Distribution Network: 176.158 km		
	HDPE pipe	12.371 km	a) Supply: -12.371 km b) Laid: -12.007km c) Hydro Testing: -10.969 Km d) Commissioning:- Nil
	DI Pipe K7	136.717 km	a) Supply: 72.257km b) Laid: -km 45.719 km c) Hydro Testing: -41.879 KM d) Commissioning:- Nil
	DI Pipe K9	27.070 km	a) Supply: -15.868km b) Laid: -9.062km c) Hydro Testing: -Nil d) Commissioning:- Nil
	House Service Connection with HDPE pipe from HDPE Pipe Distribution Line	1598 Nos.	a) Laying/install: -1021 nos. b) Testing: -Nil c) Commissioning: - Nil Remark: -CWR, WTP & Network Work in progress. (1021 installation up to Household Building without water Meter connection will be done at time of DMA commissioning)
	House Service Connection with HDPE pipe from UPVC/DI/CI Pipe Distribution Line	11002 Nos	a) Laying/install: -2323 nos. b) Testing: -Nil c) Commissioning: -Nil Remark: -CWR, WTP & Network Work in progress. (2323 installation upto Household Building without water Meter connection will be done at time of DMA commissioning)
	No. of DMAs.	15	(1- DMA 1.0-5.28% Complete) (2-DMA-3.0-21.62%Complete) (3-DMA4.1-18.20%-Complete) (4-DMA 5.0-13.31% Complete) (5-DMA-6.1-61.45%Complete) (6-DMA-7.1-29.01%-Complete) (7-DAM 8.1-19.34 % Complete) (8-DMA-9.1-75.80%-Complete) (9-DMA-10.1-90%-Complete) (10-DMA-11.1-90%-Complete)
	INTAKE	1 Nos.	Intake well Approach Bridge up to 2nd span slab casting work is

Contract description	Cumulative Progress of works up to 30.09.2024		
	(5.74 MLD, Near GambhiriDam)		completed, Fabrication Bridge red oxide paint work is completed.
	WTP (5.74 MLD, Near Gambhiri Dam)	1 Nos	(1) Chemical building –Ground floor brick masonry work in progress. (2) Filter House–Wall steel binding & shuttering work is in progress. (3) Admin building– Ground floor Roof slab shuttering work is in progress. (4) CWR–Dome Deshuttering work is in progress. (5) CLF 2 3rd lift outer wall casting work is completed. (6) Tube Settler final lift shuttering work is in progress. (7) Back wash water recovery sump - final lift casting work is completed. (8) PUMP HOUSE- Excavation work is in progress. (9) Staff quarter- first floor Brick work is in progress.
	Pump House	1 No (300 Sqm Pump house Near B.R. College)	Cantilever slab shuttering work in progress.
	CWR	1No(CWR at Proposed Near B.R. College HW 1000 KL)	CWR Dome casting work completed and Dome deshuttering work is in progress.
	Refurbishment work(8 - OHSR) & (2-CWR)	10 Nos	Zone 11 kachi basti (DMA11.1) ISHDP OHSR Internal Repairing Work is in progress. Zone-10 :- (DMA10.1) Repairing Work , Painting work & Hydro testing work is in progress.

Contract description	Cumulative Progress of works up to 30.09.2024		
			Zone-06 :(DMA 6.1) Atal Nagar OHSR Painting work is in progress. Zone 07 :- (DMA 7.1) Ishakabad OHSR Repairing work is in progress.
	For Road Cutting & Restoration-		
	Road cutting	Road restoration Base Layer	Balance Road restoration
	a) CC – 15.643 km b) BT- 11.033 km c) WMM-0.0km d) Kaccha-40.112 km	a) CC – 15.296 km b) BT- 9.590 km c) WMM- 0.0km d) Kaccha-40.112 km	a) CC – 0.347 km b) BT-1.443 km c) WMM-0.0km d) Kaccha-0.0 km
	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)	Finishing work is in progress.
	CRMC -II Centre	2.(1 is in PHED Campus)	Finishing work is in progress.
	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	Civil work completed.
	Chlorination room	1 Nos. of chlorination room proposed at Adarsh nagar	Civil work completed.
	Chlorination room	1 Nos of chlorination room proposed at Bus stand	Civil work completed.

Town: Jodhpur (Wastewater) Sub Project

Contract description	Cumulative Progress of works up to 30.09.2024		
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	a) Supply: 151.75 Km b) Laid: 145.17Km c) Testing: 145.17Km d) Deflection Test :137.27 Km e) Commissioning :38.69 Km
	RCC pipe	21.59 km	a) Supply: 13.02 Km b) Laid: 11.64 Km c) Testing: 11.64 Km d) Commissioning :0.656 Km
	PVC-U pipe (110mm to 160mm)	100.87 km	a) Supply: 86.83 Km b) Laid: 67.52 Km c) Testing: 0 Km d) Commissioning :0 Km
	Manholes (All types)	12917 Nos	a) Supply: 7294 nos b) Laid: 6931 nos. c) Testing: 6931 nos. d) Commissioning :2020 nos.
	Inspection Chamber	19380 Nos	a) Supply: 9985 nos b) Laid: 9635 nos. c) Testing: 9635 nos. d) Commissioning :5232 nos.
	Rehabilitation of existing Sewer line by Pipe Bursting/CIPP Technology	13.620 Km	a) Supply: b) Installation: 8.92 Km c) Testing: 8.92 Km d) Commissioning :8.92 Km
	Conditional Assessment	450 km	439.05km
	House Sewer Connection (HSC)	19380Nos	6130 nos.
	HDPE pipe	21.59 km	(a) Supply: 17.82Km (b) Laid: 8.05 Km c) Testing: 8.05 Km d) Commissioning :
	Population benefitted due to commissioned: 1687896 (Base Year 2025)		
	For Road Cutting & Restoration-		
	Road cutting	Road restoration	Balance Road restoration
	A) CC: 18.60 Km B) BT : 40.28 Km	A) CC : 17.66Km B) BT : 38.29Km	A) CC : 0.94 Km B) BT : 1.99Km

Town: Jodhpur (Drainage works) Sub Project

Contract description	Cumulative Progress of works up to 30.09.2024		
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- 33.1% Stipulated Date of completion of Design Build- 01-05-2025	Drainage Work:		
	Item	Scope	Progress
	Bhairav Nallah	13.10 km	Work is in Progress in following Chainage: Chainage no. 1440-1470 Chainage no. 11400-11700 Chainage no. 12400-12700 Chainage no. 13010-13060 (Jojari)
	Total Raft		• 6.700 km
	Raft With Vertical Walls		• 6.484 km
	Complete Drain		• 6.250 km
	Saran Nagar Nallah	7.13 km	Work is in Progress in following Chainage: Chainage no. 5850-5970 Exacavation Work 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 works) Sub Project

Contract description	Cumulative Progress of works up to 30.09.2024		
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 Date of Start- 23.02.2023 Cumulative Physical Progress- 42.2 % Stipulated Date of completion of Design Build- 23.08.2024 Likely date of completion: 31.12.2024	Drainage Work:		
	Item	Scope	Progress
	1.1 MLD SWPS-1 Near Railway Quarters	1.1 MLD	• Work in 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
	RWR at Forest Land	30000KL	• Forest Clearance Awaited
	RCC pipeline	0.960KM	a) Supply: 0.500 Km b) Laid: 0.267 Km c) Hydro Testing:0.00 Km d) Commissioing:0.00 Km
	DI Pipes (Pumping Main)	10.14KM	a) Supply: 11.050 Km b) Laid: 10.713 Km c) Hydro Testing:9.784 Km d) Commissioing:0.00 Km
	For Road Cutting & Restoration-		
	Road cutting	Road restoration	Road restoration Top Layer
	a) CC: - 0.799 km b) BT: - 2.942 km c) ITL: - 0.121 km d) Kaccha:- 4.729 km	a) CC: - 0.080 km b) BT: - 0.000 km c) ITL: - 0.000 km d) Kaccha:-4.729 km	a) CC: - 0.00 km b) BT: - 0.510 km c) ITL: - 0.050 km d) Kaccha:- 0.0 km

Town: Barmer (Wastewater) Sub Project

Contract description	Cumulative Progress of works up to 30.09.2024		
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- 14.5% 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 approved.
	CWR (500KL)	1 No's	• Waiting for drawing.
	TEER (OSHR1000KL)	1 No's	• Waiting for drawing.
	Pump house Building		• Work not started
	Lateral Sewer (Up to dia 315)	35.319 km	a) Supply: 4.5 Km b) Laid: 1.237 Km c) Testing:0 Km d) Commissioning:0 Km
	RCC dia 350 to 600	10.256 km	a) Supply: 5.7425 Km b) Laid: 5.5 Km c) Testing:0 Km d) Commissioning:0 Km
	PVC-U Pipe	85.515 km	a) Supply: 9.378 Km b) Laid: 1.979 Km c) Testing:0 Km d) Commissioning:0 Km
	Manholes (All types)	3219 Nos.	a) Supply: 248 nos b) Installation: 187 nos. c) Testing:0 d) Commissioning:0
	Inspection Chamber	11391 Nos.	a) Supply: 548 nos b) Installation: 228 nos. c) Testing:0 d) Commissioning:0
	HDPE Pipe	1.51 Km	a) Supply: 1.488 km b) Laid: 0 km c) Testing:0 Km d) Commissioning:0 Km
	MS Pipe	0.15 Km	a) Supply: 0.048 km b) Laid: 0 km c) Testing:0 Km d) Commissioning:0 Km
	For Road Cutting & Restoration-		
	Road cutting	Road restoration	Balance Road restoration
	CC:0.3205 km BT:5.8565 km WMM:0.200 km Interlock:0.210 km Kaccha:0.150 km	CC: 0km BT: 0km WMM: 0km Interlock: 0km Kaccha:0.150 km	CC:0.3205 km BT:5.8565 km WMM:0.200 km Interlock:0.210 km Kaccha:0.0 km
	Building and Miscellaneous work		
	Item Description	Scope of Work	Progress made so far
	CRMC Building – 01 (Mahaveer Nagar)	1 Nos.	Work completed up to lintel beam.

Town: Balotra (Water Supply & Wastewater) Sub Project

Contract description	Cumulative Progress of works up to 30.09.2024		
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- 20.3% Stipulated Date of completion of Design Build- 23-01-2026	Water Supply Work:		
	Item	Scope	Progress
	Total water supply network: 451.75 km		
	HDPE Pipe	440.72 Km.	a) Supply: 149.51 km b) Laid: 65.53 km c) Testing: 0 Km d) Commissioning: 0 Km
	DI Pipe K-7	2.65 Km.	a) Supply: Nil b) Laid: Nil c) Testing: Nil d) Commissioning: Nil
	DI Pipe K-9	8.38 Km.	a) Supply: Nil b) Laid: Nil c) Testing: Nil d) Commissioning: Nil
	House Service connection	18269 Nos.	a) Supply: Nil b) Laid: Nil c) Testing: Nil d) Commissioning: Nil
	Domestic Water meter	18269 Nos.	a) Supply: Nil b) Laid: Nil c) Testing: Nil d) Commissioning: Nil
	No. of DMAs	21	Work not started
	Population benefitted due to commissioned: 93600 (Base year 205)		
	Wastewater Work:		
	Lateral sewer (up to dia 315)	95.364 Km.	a) Supply: 28.0 km b) Laid: 22.64 km c) Testing: Nil d) Commissioning: Nil
	PVC-U pipe	52.20 Km.	a) Supply: 25.93 km b) Laid: 2 km c) Testing: Nil d) Commissioning: Nil
	Manholes (All types)	7298 Nos.	a) Supply: 1181 nos. b) Laid: 793 nos c) Testing: Nil d) Commissioning: Nil
	Inspection Chamber	6960 Nos.	a) Supply: 992 nos. b) Laid: 210 nos c) Testing: Nil d) Commissioning: Nil
	For Road Cutting & Restoration-		
	Road cutting	Road restoration	Balance Road restoration
	CC: 0.94 km BT: 4.75 km	CC: 0.94 km BT: 0 km	CC: 0 km BT: 4.75 km

Contract description	Cumulative Progress of works up to 30.09.2024		
	WMM:15.76 km Interlock:1.01 km Kaccha: 44.03 km	WMM: 15.76 km Interlock:1.01 km Kaccha:44.03 km	WMM:0 km Interlock:0 km Kaccha: 0 km
	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. Paint work is in progress.
	MCC	1 Nos.	Structure work completed. Paint work is in progress.
	PLC SCADA		

Town: Sagwara (City Beautification) Sub project

Contract description 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 Cumulative Physical Progress- 8.3% Stipulated Date of completion of Design Build- 22-03-2025	Cumulative Progress of works up to 30.09.2024		
	Sagwara City Beautification:		
	Item	Progress	
	Development of Masaniya Lake		
	Improvement of lakes	Jungle Clearance Work in Progress. Dismantling of Existing Broken stair was completed. Green wall work running progress. Retaining wall work is in under progress. PCC work in progress at Masaniya.	
	Development of Lohariya Lake	Cleaning work Progress	
	Development of Hariyala Lake	Cleaning work is in progress	
	Development of Gemaria Lake – 01	Cleaning work Progress	
	Development of Gemaria Lake – 02	Cleaning work is in progress	
	Construction of Playground	Soil levelling work& Compound wall work is in progress. Play Ground levelling work under progress at Play Ground excavation work running at play ground	
	Development of Interconnectivity of lake	Cleaning work Progress	
	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 30.09.2024	
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- 21.0% Stipulated Date of completion of Design Build- 22-03-2025	Gadisar Lake Beautification	
	Item	Progress
	Development of Entrance Plaza	Excavation and laying of gsb wmm started & PCC work started at the parking area. Stone work for toe wall work started.
	Development of Amenities	Drawing Yet To Be Submitted
	Lighting	Drawing Approved
	Sculpture and Fountain	Drawing Yet To Be Submitted
	Landscaping	Drawing Yet To Be Submitted
	Paving	Drawing Yet To Be Submitted
	Development of Upper Pal Portion	
	Ground Stabilization	0.50% GFC Drawing Approved Work started.
	Retaining wall	
	Boundary Wall	30% Completed
	Slope retention & Beautification of Upper Pal	Working Drawing Approved
	Mud Track	Working Drawing Approved
	Development of Amenities	Working Drawing Approved
	Landscaping and Horticulture	Drawing Yet To Be Submitted
	Walkway	Working Drawing Approved
	Lighting and CCTV Camera Provision	GFC Drawing Approved
	Sound System	GFC Drawing Approved
	Signage	Drawing Yet To Be Submitted
	For Road Cutting & Restoration-	
	Road cutting	Road restoration Base Layer
	• NA	NA
		Road restoration Top Layer
		NA
	Building and Miscellaneous work	
	Item Description	Scope of Work
	NA	NA
		Progress made so far
		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	-	-	-
		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	-	-	-

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
		Facade 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	Refurbishment of existing intake well in Vijaychakra Dam	Construction of 3.1 MLD new intake well in Vijaychakra Dam is dropped from the scope.	-	-
		Construction of one CRMC building	-	-	-
		Tube Wells: Rehabilitation: 02 nos. of existing tube wells and 2 nos of existing open well	-	-	-
		Raw Water Reservoir (RWR) 550 kL	-	-	-
		New Raw water pump house: complete pumping system to feed H/Ws	-	-	-
		Raw water Rising mains: 9.19 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	-	-	-
		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),	-	-	-

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
		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	-	-	-
		CRMCs and MCC: New: CRMC- 2 nos. MCC- 1 no.	-	-	-
		Wastewater Works:			
		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	-	-	-

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
		OHSRs, CWRs/GLSRs/Tube wells and Pump houses: 1 NasiyaJi 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.	-	-	-
		Sewerage 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 networksRCC 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	-	-	-

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
		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	-	-	-
		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	-	-	-
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):	-	-	-

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
		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) 1000 kl with SCADA 750 KL With SCADA	-	-	-
		Open Wells: New 5 nos.	-	-	-
		Transmission Mains- - Material - DI K-9 pipes - Length- 19.574 Kms - Diameter- 250-400 mm Feeder Mains-	-	-	-

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
		- 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	Sewage Treatment plants 5MLD	-	-	-
		Sewage Pumping Station (SPS) 6.5 MLD	-	-	-
		Total Sewer Network Length- 268.77 Km A. Under Nagar Nigam Jodhpur (NNJ) areas- Total sewer network- 123.98 km - Replacement including augmentation of sewer- 98.9 km (out of which, augmentation is 24.81 km) - Pipe bursting- 3.21 km - Cured in Place Pipe (CIPP)- 10.41 km (out of which 1.80 km in trenchless) - New sewer- 11.47 km B. Under Jodhpur Development Authority (JoDA) areas- (new sewers) Total sewer network- 144.77 km - HDPE DWC SN8 - 128.65 km, - RCC pipes-10.68 km, HDPE PE-100 PN-6 (laying with Trenchless Method)-5.44 km	-	-	-

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
13	Jodhpur Drainage	Nala No 1: Bhairav Nagar Nala Length: 13.10 km	-		
		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 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 Replacement 8380 m total length to be replaced (150mm to 400mm DI-K-9)	-	-	-
		Distribution System Replacement	-	-	-

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
17	Sagwara City Beautification	Length: 442.10 Kms Material: HDPE Pipe & DI-K-7 Diameter: 75mm to 315 mm Diameter 350mm to 500mm			
		Sewerage 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	-	-	-
		Improvement of lakes-5 Nos.	-	-	-
		Development of Jetty-2 Nos. Construction of Public Toilet-3 Nos.	-	-	-
		Development of existing Deck- 1nos. Development of Walk way around Lohariya Lake, Gamera Lake-01, Gamera Lake -02 and Hariyala Lake	-	-	-
		Installation of decorative fountain-5Nos	-	-	-
		Lighting, beautification, landscaping and providing street furniture in the lakefront of Lohariya Lake, Gamera Lake-01, Gamera Lake -02 and Hariyala Lake..	-	-	-
		Improvement of interlinking channel for lakes-2.1 km	-	-	-
		Plantation- A total of 60,000 plants are to be planted under the subproject.	-	-	-
18.	Jaisalmer City Beautification	Development of Access and Parking area: Road paving -1500 Sq.m Parking area for 26 cars	-	-	-
		Redevelopment of Upper part of Gadisar Lake. Ground Stabilization-750 m Slope retention & Beautification of Upper Pal-750m Mud Track	-	-	-

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
		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/ STATE/ 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 Compensation Workmen (WC) Policy	Permissions for Road Cutting
	1	2	3	4	5	6	7
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
2.	RSTDSP/ JOD/02	Jodhpur Drainage Subproject	Not yet required	• Permission for 76 nos. of tree cutting is obtained for RTO Nallah on dated 11.09.2024 • Permission for tree cutting is under process for Bhairav Nallah	Not yet required	• Labor License valid up to 31.12.2024 • Workmen Compensation (WC) Policy valid up to 24.11.2025	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
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
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 • Workmen Compensation (WC) Policy valid up to 06.01.2025	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
	1	2	3	4	5	6	7
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
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
8.		Nathdwara Water Supply Subproject	Applied vide proposal No. FP/RJ/WATER/444 285/2023 CAF No.: CAF/139953/2 023 S/W No.: SW/143602/20 23 Submitted on 20.11.2023 Pending at DFO due to EDS by Nodal Officer	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
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
10.		Bundi	Not yet required	Not yet required	Not yet required	• Labor License not required: Undertaking	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 (WC) Compensation Policy	Permissions for Road Cutting
	1	2	3	4	5	6	7
	RSTDSP/ 4 towns/ DR/01	Drainage Subproject				submitted by contractor that the no. of labours deployed are less than 50. • Workmen Compensation (WC) Policy valid up to 04.12.2024	
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. • Workmen Compensation (WC) Policy valid up to 04.12.2024	Not yet required
12.		Ratangarh Drainage Subproject	Applied vide proposal No. FP/RJ/OTHERS/43 8746/2023 CAF No.: CAF/135008/2023 S/W No.: SW/138466/2023 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

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 (WC) Compensation Policy	Permissions for Road Cutting
	1	2	3	4	5	6	7
			Stage -1 clearance obtained				
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. • Workmen Compensation (WC) Policy valid up to 04.12.2024	Not yet required
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 02.05.2025	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 14.07.2025	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 (WC) Compensation Policy	Permissions for Road Cutting
	1	2	3	4	5	6	7
16.		Balotra Water supply & 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 14.07.2025	Not yet required
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 25.10.2025	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 25.10.2025	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 obtained and valid from 22.02.2024 to 31.01.2029
2	Nokha (Water Supply & Wastewater Subproject)	7 MLD	-	Madiya Village	CTE yet to be applied.
3	Bharatpur (Wastewater Subproject)	9.4 MLD	-	Nagla Gopal near Ikran Village	CTE obtained and valid from 21.09.2023 to 31.08.2028
4	Jodhpur (Wastewater Subproject)	5 MLD	-	Khokhariya Village	CTE application under process
5	Sagwara (Water Supply & Wastewater Subproject)	3.6 MLD	-	near BSNL Telephone Exchange Office / Central Jail, near Banori	CTE obtained and valid from 23.07.2024 to 30.06.2029
6	Dungarpur (Water Supply & Wastewater Subproject)	4 MLD	-	Near Do river (Do Nadi) on Udaipur road	CTE obtained and valid from 10.07.2024 to 30.06.2029
7	Bundi (Water Supply & Wastewater Subproject)	6.5 MLD	8 MLD	Existing STP campus at Ramgunj Balaji.	CTE for 6.5 MLD STP obtained and valid from 10.10.2023 to 30.09.2028 & CTE for 8 MLD WTP obtained and valid from 11.03.2024 to 28.02.2029
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
5 MLD STP, Near Charkara Village, Nokha	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs.1100 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.
4 MLD STP, Dungarpur	That fee for this consent to establish has been deposited on the basis of estimated project cost of Rs.1100 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 &	Application for DG set under Air Act shall be done before installation of DG set- presently DG set is not being installed

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
	Control of Pollution), Act, 1981 for D.G. Set of 200 KVA	
General conditions included in Consent to Establish of WTPs		
All WTPs	That the provisions of EIA notification 14/09/2006 by MoEF shall be strictly followed and the unit shall obtain Environmental Clearance under 8(a) of the aforesaid notification if required and the sole responsibility of the same shall lie on the project proponent.	Not applicable
	That this consent to establish is issued to the unit on the basis of documents submitted by the applicant, if any discrepancy is found in the document/facts submitted by the unit then the applicant shall be liable for legal action in accordance with provisions of law.	Noted
	That no industrial trade effluent i.e. wastewater from water re-circulation system, shall be discharged inside/outside the premises. The entire process water shall be re-circulated with the processes through proposed settling tanks	Complied- The entire process water shall be re-circulated with the processes through proposed settling tanks, no any discharge from WTP shall be done
	That the back-wash water shall be treated through adequately design treatment system and should be completely recycled into the process thus maintaining zero discharge inside and outside the premises	Complied- The entire process water shall be re-circulated with the processes through proposed settling tanks, no any discharge from WTP shall be done
	That the domestic effluent shall be disposed off in soak pits through properly designed septic tanks	Noted and shall be complied with during detail design
	That no source of air emission shall be permitted under this consent, unit shall 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	Being Complied- Quarterly environmental monitoring was done at WTP premises.

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
	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.	Recent noise quality measurements shows that noise level is within prescribed limits
	That the unit shall maintain plantation at least in the 33% of total area within the unit premises	Noted and shall be complied during detail design
	That the consent is valid subject to fulfillment of all the other statutory requirements in other Laws/Acts/Rules as applicable.	Noted
	That this consent is not an evidence for ascertaining the title of land	Noted
	That this consent is only for environment purpose not be liable for any other purpose.	Noted
	That unit shall comply with standards, with respect to drinking water, as prescribed by the Bureau of Indian Standards in IS 10500-2012 as amended till date.	Design standards of WTP are as per applicable norms of CPHEEO
	That the unit shall apply for renewal of consent at least 120 days in advance prior to expiry date of this consent letter else additional fee shall have to be deposited in accordance with the Rajasthan Water & Air (Prevention & Control of Pollution) (Amendment) Rules 2016	Noted and shall be complied with
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	Noted and shall be complied if there is any change in capacity or addition/ modification/ alteration/ or change in product mix or

Name of plant and locations	Conditions of Clearance / Permission	Status of Compliance
	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.	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
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 18 towns are submitted by the contractors from which SEMP for Nathdwara(WS), Nimbahera (WS), Bundi WS &WW, Bharatpur WW, Dungarpur WS&WW, Sagwara WS&WW, Ratangarh, Nawalgarh, Bhawani Mandi and Bundi drainage sub project towns are approved and SEMP of Jodhpur, Nokha, Barmer, Balotra, Jaisalmer, Sagwara & Bharatpur (City Beautification works) 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 **Aappendix 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	BC	NA	NA	NA	NA	NA	NA	NA	
		BC	BC	BC	BC	BC	BC	NA	BC	BC	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/PIU
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 cylinders, gloves, etc.,)	• 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)	
- 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	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 - Provide leak/spill detection,	- 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	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)															
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																																	
COD, mg/l	≤50																																	
TSS, mg/l	≤20																																	
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	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 / CLC; plan should also include if	Reuse plan for treated sludge	BC	BC	BC	BC	BC	BC	BC	BC	NA	BC	NA	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)	
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 shall not be handled	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)	
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 no children/residents can entre	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)	
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 especially in narrow roads, use	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
		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)	
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 the wastewater shall be discharged into STP	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)	
• 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 archaeology from recognized (such as Institute of	• 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, 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 of proper safety gear and disposal methods.	• 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)	
• 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	DBO Contractor/ CMSC and PIU
Construction work camps, hot mix plants, stockpile areas, storage areas, and disposal areas.- Disruption to traffic flow and sensitive receptors: - Prioritize areas within or nearest possible vacant space in the project location; - If it is deemed necessary to locate elsewhere, consider sites that will not promote instability and result in destruction of property, vegetation, irrigation, and drinking water supply systems; - Do not consider residential areas; - Take extreme care in selecting sites to avoid direct disposal to water body which will inconvenience the community. - For excess spoil disposal, ensure	- 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	DBO Contractor/ CMSC and PIU

Impacts/ Mitigation Measures (List from IEE)/	Parameters Monitored	Status of Compliance (BC: Being Complied, TC: To be Complied, C: Complied, NA: Not Applicable)																		Responsibility
		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)	
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 required-	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)	
- 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 - Maintain records of asbestos materials inventory	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)	
• 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-related pollutants such as carbon monoxide, sulfur oxides, particulate matter,	- Site plan of stockyard for soil, gravel and other construction materials - Covered transport of loose materials - PUC of vehicles	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)	
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 party agencies, contractor shall ensure that such agencies have all necessary	- 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)	
clearances / permissions as required under the law; these include CTE/CTO from RSPCB, environmental clearance, etc.; contractor shall collect the copy of these certificates and submit to PIU; PIU will approve the source only after all the certificates are submitted • Conduct air quality monitoring according to the Environmental Management Plan (EMP).																				
Surface water quality - Works in rains/ Mobilization of settled silt materials, and chemical contamination from fuels and lubricants during installation of pipelines can contaminate nearby surface water quality: • Prepare and implement a spoils management plan • Avoid stockpiling of earth fill especially during the monsoon season unless covered by tarpaulins or plastic sheets; • Prioritize re-use of excess spoils and materials in the construction works. If spoils will be disposed, consult with PIU on designated disposal areas; • Inspect all the drainage at construction site/construction camp/labor camp etc. and clear all the drainage lines so that no water stagnation/flooding may occur during heavy rainfall • As for a possible avoid trench works and excavation works (pipe laying) during monsoon season to avoid	• 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)		
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 - Schedule the construction works during low water level period – late winter months to pre 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)	
(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 unless it is necessary to warn other road users or animals of the vehicle's approach;	- 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	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)		
- 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 structures which are no longer required; and - Request PIU to report in writing that the necessary	- 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	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)		
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	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	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	BC	DBO Contractor/ PIU/ CMSC
Accessibility - Traffic problems and conflicts near project locations and haul road: - Plan sewer line works to minimize traffic disturbance / blockades; as the sewer lines are to be laid in all the roads and streets in the town, work planning is crucial to minimize the inconvenience to public. - Prepare and implement a Traffic Management Plan - Duly consider and select	- Work Plan - Traffic Management Plan - Site observations - Project information boards - Prior public consultations by contractor's team - Accessibility provided during works	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor/ PIU/ CMSC

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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 maintain the access																				
Socio-Economic – Income. - Impede the access of residents and customers to nearby shops:	- Spoil management plan - Mitigation measures as per RP and IEE	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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• 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.	• Prior public consultations by contractor's team with shopkeepers • Project information boards																				
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	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: IFC's General EHS	• 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	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor

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Guidelines ¹¹ and Sector Specific (Sanitation) Guidelines • Develop and implement site-specific occupational health and safety (OH and S) Plan which will include measures such as: a) excluding public from the site; (b) ensuring all workers are provided with and use personal protective equipment like helmet, gumboot, safety belt, gloves, nose musk and ear plugs; (c) OH and S Training for all site personnel; (d) documented procedures to be followed for all site activities; and (e) documentation of work-related accidents; • Conduct work in confine spaces, trenches, and at height with suitable precautions and using standards and safe construction methods; do not adopt adhoc methods; all trenches deeper than 1.5 m shall be provided with safety shoring/braces; and avoid open cutting method for trenches deeper than 3.5 m by adopting trenchless technology • Develop site specific OHS plan for sewage pumping stations works; SPS sites are	• Medical and health insurance of workers • Health check-up records of workers • Safety trainings/ orientations records • Solid waste management • Site observations																			

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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 workers; • Provide visitor orientation if																				

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visitors to the site can gain access to areas where hazardous conditions or substances may be present. Ensure also that visitor/s do not enter hazard areas unescorted; • Ensure the visibility of workers through their use of high visibility vests when working in or walking through heavy equipment operating areas; • Ensure moving equipment is outfitted with audible back-up alarms; • Mark and provide sign boards for hazardous areas such as energized electrical devices and lines, service rooms housing high voltage equipment, and areas for storage and disposal. Signage shall be in accordance with international standards and be well known to, and easily understood by workers, visitors, and the general public as appropriate; • Disallow worker exposure to noise level greater than 85 dB A for a duration of more than 8 hours per day without hearing protection. The use of hearing protection shall be enforced actively. • Conduct regular health check-ups for workers • Provide periodical awareness camps and special trainings for workers for health issues and risks in construction sites • Provide proper solid and liquid waste management system in workers' campsite, separate from spoils and debris disposal, as their																				

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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 methods. - Appropriate actions as defined in the Asbestos	- 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

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Management Plan will have to be adhered to • Maintain records of AC pipes as per the AMP																				
Community Health and Safety.- Traffic accidents and vehicle collision with pedestrians during material and waste transportation: • Trench excavation and pipeline works shall be conducted in a safe manner; if the allowing public movement along the work sites (pedestrians or vehicles as the case may be) is likely to cause safety risks, movement should be blocked temporarily and work shall be conducted; in such areas, conducting night work or working in small stretches to avoid blockage of traffic/movement no more than few hours in due consultation with the local community and ULB shall be planned • All trenches deeper than 1.5 m shall be provided with safety shoring/braces; and avoid open cutting method for trenches deeper than 3.5 m by adopting trenchless technology • Survey the surrounding vulnerable buildings for likely issues in structural stability / differential settlement during the excavation works • Provide prior information to the local people about the • Plan routes to avoid times of peak-pedestrian activities. • Liaise with PIU/ULB in identifying high-risk areas on route cards/maps. • Maintain regularly the	• 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

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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 protocol during the workers; • Contractors should have handheld noise level meter for measurement of noise	• Night work plan approval from PIU • Noise and illumination monitoring during night works • Public consultations before night works • Workers records • First aid and emergency plans for night works • Nearby sensitive receptors	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

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during night hours • Contractors should have handheld lux meter for the measurement of illumination during night hours • Preferably electrical connection is available for running equipment otherwise soundproof/super silent Diesel Generator set should be available • Sound level should not increase as prescribe by CPCB • Illumination should be as prescribed in protocol • As far as possible ready-mix concrete from batching plant to be used, otherwise the concrete should be prepared away from residential areas and brought to the site • All the noisy activities like hammering, cutting, crushing, running of heavy equipment should be done in daytime and avoided in nighttime • Workers engaged in night works should have adequate rest/sleep in daytime before start of night works • Worker engaged for night works should have previous experience of night works and should be physically fit for such works including clear vision in night. • All the necessary provisions of traffic aids such as traffic signals, road signage, barricades, cautions boards, traffic diversion boards etc. should be available with fluorescent/retro-reflective arrangements	• Site restoration after night works																			

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- 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 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																				

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of pedestrian/traffic movement - After completion of night works all the site should be cleaned and maintained obstruction free for daytime movement of vehicles and pedestrians - Drivers and workers should be alert and responsive during night works - All the wages to workers working in night hours should be as per the applicable labour acts - Avoid any nuisance which may create problems to nearby habitants and work peacefully during night hours - Night works should not be conducted near hospitals and during peak seasons such as peak tourist season, students' exam times etc.																					
Work in narrow streets - will pose high risk to children and elders in the locality: - Conduct awareness program on safety during the construction work - Undertake the construction work stretch-wise; excavation, pipe laying and trench refilling should be completed on the same day - Provide barricades, and deploy security personnel to ensure safe movement of people and also to prevent unnecessary entry and to avoid accidental fall into open trenches - Trench excavation and pipeline works shall be conducted in a safe manner; if the allowing public	- 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

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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 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,	• 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

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etc., shall not be used as accommodation for workers; accommodation shall meet the IFC standards for workers accommodation which include: provision of safe housing, availability of electricity, plumbing, water and sanitation, adequate fire protection and dormitory/room facilities; accommodation shall be in the range from 10 to 12.5 cubic meters (volume) or 4 to 5.5 square meters (surface) per worker, a minimum ceiling height of 2.10 meters; a reasonable number of workers are allowed to share the same room – (standards range from 2 to 8 workers); workers with accompanying families shall be provided with a proper and safe accommodation																				
• Train employees in the storage and handling of materials which can potentially cause soil contamination;																				
• Recover used oil and lubricants and reuse or remove from the site;																				
• Manage solid waste according to the preference hierarchy: reuse, recycling and disposal to designated areas;																				
• Ensure unauthorized persons specially children are not allowed in any worksite at any given time.																				
Social/Physical and Cultural Resources - Risk of archaeological chance finds:	• Chance finds protocol given in IEE	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	DBO
• Strictly follow the protocol for chance finds in any excavation work;	• Training of workers	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	Contractor/CM
		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BC	NA	NA	SC

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• 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	• Consultation with Archaeological department																				
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	BC	DBO contractor
Submission of EMP implementation report - Unsatisfactory compliance to EMP: • Appointment of supervisor to ensure EMP implementation • Timely submission of monitoring reports including pictures	• Appointment of EHS officer • Regular submission of reports	C BC	C BC	C BC	C BC	C BC	C BC	C BC	C BC	C BC	C BC	C BC	C BC	C BC	C BC	C BC	C BC	C BC	C BC	C BC	DBO Contractor
Post-construction clean-up - Damage due to debris, spoils, excess construction materials:	• Site clearance and cleaning • Road and utilities restoration	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	DBO Contractor

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- 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.	Restoration of site as previous conditions																			
Table 9 D. Operation Phase																				
Cleaning of drainage All work sites- Cleaning of drains may cause traffic disturbances, nuisances, public & worker safety	Remove the silts and other solid waste after cleaning the drains from site and dispose at approved dumping site in scientific manner Ensure traffic management during	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	TC	TC	TC	TC	TC	NA	NA	NA	ULB

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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)	
	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, lifejackets shall - Increased vehicular movement along the roads - speed restrictions, vehicle entry restrictions,	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)	
	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 with suction systems) for further treatment and disposal. Cleaning and desludging operation of septic tanks shall																			

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)	
	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 lakes are covered under ongoing sewerage scheme •Use efficient water use methods to main sport facilities																			

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)	
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 maintenance 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	C (Work of refurbishment Intake well is yet to start) 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	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 dam or drains leading to dam from the construction sites or construction camps.	TC (Work of refurbishment Intake well is yet to start 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
presence can be stressful for nesting 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.	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
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	Package No.:	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
	(Water Supply Subproject)	RSTDSP/3 Towns/WS-WW/01 Lot No.: RSTDSP/NBH/01				
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
	Bundi (Water Supply and Wastewater Subproject)	Preliminary Design Stage	✓				Yes	• IEE Bundi Water Supply and Wastewater subproject is approved by ADB on dated 19.07.2022

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)		
								• 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 (Wastewater Subproject)	Preliminary Design Stage	✓				Yes	• IEE for Bharatpur Wastewater subproject is 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.

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)		
								• 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/C TYBF/01	Sagwara (City Beautification Subproject)	Preliminary Design Stage	✓				Yes	• IEE approved by ADB on dated 08.03.2023
RSTDSP/JSL/CT YBF/01	Jaiselmer (City Beautification Subproject)	Preliminary Design Stage	✓				Yes	• IEE approved By ADB on dated 20.12.2023
RSTDSP/BHR/C TYBF/01	Bharatapur (City Beautification Subproject)	Preliminary Design Stage	✓				Yes	• IEE approved by ADB on dated 03.07.2023
RSTDSP/BAR-BLT/WS-WW/01	Barmer (Wastewater Subproject)	Preliminary Design Stage	✓				Yes	• IEE approved by ADB on dated 18.07.2023

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)		
	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)	Bidding Stage						• IEE under preparation
	Nathdwara (City Beautification Subproject)	Bidding 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/for/details.html> updated IEEs also has been disclosed at this link after approval from ADB.

4. APPROACH AND METHODOLOGY FOR ENVIRONMENTAL MONITORING OF THE PROJECT

15. **Institutional Arrangement for Environmental Management:** For the measurement of effectiveness of the environmental performance of contractor, regular environmental monitoring is required. In RSTDSP there is well established organizational structure for environmental monitoring. Project Officer (Environment) with support of Assistant Project Officer (Environment) in PMU is overall looking environmental issues in the project. Safeguard and Safety Officers (SSO) deputed in each PIU are responsible for day to day monitoring of environmental performance of project contractor. In PMCBC; Environment Safeguard Specialist (ESS) is deputed with environmental safeguard support staff who are responsible for review the updated IEE/EMP and monitoring of environmental safeguard compliances during construction phase. ESS will support PO (Environment) at PMU and SSOs at PIUs in implementation, management and monitoring of all environmental safeguards related activities. The town level consultant team (Construction Management and Supervision Consultants-CMSCs) includes Environmental Safeguard Professional and Environmental Safeguard Support personals, who are responsible for updating the IEE/EMP, monitoring of implementation measures on project sites and reporting to PIU/PMU. CMSCs also include Assistant Construction Manager (ACM) at each PIU responsible for the construction supervision including environmental safeguards at subproject town level. Community Action and Participation Consultants (CAPC) will support PIUs in construction facilitation, community consultation/participation, grievance registration and redress during the construction. The contractors have appointed an Environment, Health and Safety (EHS) Officer in each town who are responsible on a day-to-day basis for (i) ensuring implementation of EMP, (ii) coordinating with the ACM and environment safeguards specialists (all levels PO, SSO & ESS); (iii) community liaison, consultations with interested/affected parties, and grievance redress; and (iv) reporting.

16. **Site visits.** Site visit is carried out by ESS, PMCBC and Environment Safeguard Professionals of CMSCs and/or their safeguard support staff on regular basis for the monitoring of contractor's performance towards social, environment, health and safety issues as described in EMP. During site visit the safeguard personnel visit all the working sites along with town 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 18 sub 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 PM10 µg/m ³	Annual 24 hours	60 100	60 100	Gravimetric -TOEM -Beta attenuation	20 (Annual) 50 (24-hr)
4	Particulate Matter (Size less than 2.5 µm) or PM2.5 µg/m ³	Annual 24 hours	40 60	40 60	Gravimetric -TOEM -Beta attenuation	10 (Annual) 25 (24-hr)
5	Carbon Monoxide (CO) µg /m ³	8 hours 1 hours	02 04	02 04	Non Dispersive Infra Red (NDIR) Spectroscopy	2,000 (8-hr) 4,000 (1-hr) 100,000 (15-min)

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

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

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

Table -14: Drinking Water Quality Standards (As per IS 10500:2012)

Organoleptic and Physical Parameters
(Foreword and Clause 4)

SI 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, Max	5	15	Part 4	Extended to 15 only, if toxic substances are not suspected in absence of alter- nate sources
ii)	Odour	Agreeable	Agreeable	Part 5	a)Test cold and when heated

SI 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)
					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	—

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)
				method	
xvi)	Nitrate (as NOA mg/l, Max	45	No relaxation	IS 3025 (Part 34)	—
xvii)	Phenolic compounds (as C ₆ H ₅ OH), mg/l, Max	0.001	0.002	IS 3025 (Part 43)	—
xviii)	Selenium (as Se), mg/l, Max	0.01	No relaxation	IS 3025 (Part 56) or IS 15303*	—
xix)	Silver (as Ag), mg/l, Max	0.1	No relaxation	Annex J of IS 13428	—
xx)	Sulphate (as SO ₄) mg/l, Max	200	400	IS 3025 (Part 24)	May be extended to 400 provided that Magnesium does not exceed 30
xxi)	Sulphide (as H ₂ S), mg/l, Max	0.05	No relaxation	IS 3025 (Part 29)	—
xxii)	Total alkalinity as calcium carbonate, mg/l, Max	200	600	IS 3025 (Part 23)	—
xxiii)	Total hardness (as CaCO ₃), mg/l, Max	200	600	IS 3025 (Part 21)	—
xxiv)	Zinc (as Zn), mg/l, Max	5	15	IS 3025 (Part 49)	—

NOTES

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

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

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

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

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

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

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

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

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

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

Table 19: Method of monitoring and equipment used

S.No.	Parameter monitoring of	Equipment used	Methodology	Protocol of test
Air Quality				
1.	PM ₁₀	Fine Particulate Sampler (e.g. Envirotech APM 550)	Collection of particulate matter on filter papers and gravimetric analysis	IS 5182 (part 23): 2006
2	PM _{2.5}	PM _{2.5} sampler (e.g. Envirotech APM 154)	Collection of particulate matter on filter papers and gravimetric analysis	As per CPCB guidelines
3	SO _x	Respirable Dust Sampler with gaseous attachment (e.g. Envirotech APM 460BL),	Absorption of a gases in liquid absorbent and analysis by	IS 5182 (part 2): 2001

S.No.	Parameter monitoring of	Equipment used	Methodology	Protocol of test
		UV/VIS spectrophotometer	improved West and Geike	
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 Alkanity as CaCO ₃	-do-	Qualitative Analysis	IS:3025 (part 23): 2003
29	Colour	-	Physical observation	APHA 22 nd edition
30	Odour	-	Physical observation	APHA 22 nd edition
31	Taste	-	Physical observation	APHA 22 nd edition
32	Phenolic Compound	-do-	Qualitative Analysis	IS:3025 (part 43): 1992
33	Total Residual Chlorine	-do-	Qualitative Analysis	IS:3025 (part 26): 1986

7. ENVIRONMENTAL MONITORING DURING REPORTING PERIOD

23. Baseline environmental monitoring for ambient air, noise, water and soil has been conducted in all 18 sub project 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 (April to September 2024) environmental monitoring was conducted in all 18 sub project towns whereas Construction phase environmental monitoring (quarterly) was conducted 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. 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 April 2024 to September 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.	Ratangarh Drainage Subproject	Construction	• Air Quality, • Noise Quality, • Ground Water Quality, • Soil Quality	11.05.2024 to 13.05.2024	• 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	• 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 66.7 to 74.1 µg/m³ and PM_{2.5} (ranges from 22.12 to 29.0 µg/m³) values (PM₁₀) in all 6 locations & values (PM_{2.5}) in 1 location are more than applicable ADB SPS limits whereas all other parameters are within prescribed limits as per both standards. • Noise quality monitoring conducted at 6 locations. Day time results ranges from 59.1 to 64.7 dBA and night time results ranges from 45.2 to 51.0 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.
2.	Bharatpur City Beautification subproject		• Air Quality, • Noise Quality, • Surface Water Quality	13.06.2024 to 14.06.2024	• Laxman Mandir • Hanuman Mandir Near Shaligram Kund • Brijendra Bihari Kund • 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 59.9 to 69.4 µg/m³ and PM_{2.5} (ranges from 23.5 to 28.6 µg/m³) values (PM₁₀) in all 4 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 4 locations. Day time results ranges from 55.3 to 59.7 dBA and night time results ranges from 38.2 to 41.9 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 4 locations whereas during night time, noise quality results were within prescribed limits as per both standards for residential areas at all 4 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
3.	Bharatpur (Wastewater Subproject)	Construction	- Air Quality, - Noise Quality, - Ground Water Quality, - Soil Quality	06.04.2024 to 07.04.2024	- Near New STP Construction Site at Nagar Nigam STP, Gopal nagla Mod, Acchhnera Road - SPS-04 Construction Site, 2.25 MLD, Near Sulabh Complex - SPS-03 Construction Site, 1.6 MLD, Near Mukharjee Nagar - SPS-01, Construction Site, 0.81 MLD, Near Nayi Mandi Shamshan	- 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 73.52 to 83.2 µg/m³ and PM_{2.5} (ranges from 26.4 to 39.6 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 55.9 to 62.8 dBA and night time results ranges from 42.6 to 48.2 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.
4.	Bundi Water supply & Wastewater Subproject	Construction	- Air Quality, - Noise Quality, - Ground Water Quality, - Soil Quality	27.06.2024 to 29.06.2024	- Near Guard Room STP, Ramganj Site - CWR Pump House, Nainwa Road - Near Ghasera Mohalla, Harijan Basti, Zone 10 - Near WTP Pump House, 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 72.7 to 81.8 µg/m³ and PM_{2.5} (ranges from 22.5 to 39.4 µg/m³) values (PM₁₀) in all 4 locations & 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 4 locations. Day time results ranges from 57.7 to 65.8 dBA and night time results ranges from 44.6 to 49.5 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 4 locations whereas noise quality results during night time were within prescribed limits as per both standards at 1 location only.
5.	Bundi Drainage Subproject	Construction	- Air Quality, - Noise Quality,	21.06.2024 to 22.06.2024	Jait Sagar Nalla, Near Arriwali Marriage Garden	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 55.7 to 63.9 µg/m³

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		- Jait Sagar Nalla, Near Meera Bagh Choki - City Kotwali Police Thana - Bharat Petrol Pump (Devpura) - Nainwa Road, Magistrate Colony - Batching Plant, Near Meera Road	and PM_{2.5} (ranges from 22.2 to 30.6 µg/m³) values (PM₁₀) in all 6 locations & 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 6 locations. Day time results ranges from 58.6 to 67.6 dBA and night time results ranges from 44.3 to 64.1 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 6 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 5 locations.
6.	Bhawani Mandi Drainage subproject	Construction	- Air Quality, - Noise Quality, - Ground Water Quality, - Soil Quality	22.06.2024 to 23.06.2024	- Trimurti Colony Dag Road Pachhad - Near Baba Circle - Sadar Bazar Near Tarachand Hotel - Asharam Road Near Santi Choraya - Jawahar Colony Near Vivekanand 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 60.4 to 67.5 µg/m³) and PM_{2.5} (ranges from 21.9 to 24.8 µg/m³) values (PM₁₀) in all 5 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 5 locations. Day time results ranges from 61.4 to 67.4 dBA and night time results ranges from 47.3 to 51.6 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.
7.	Nawalgrh Drainage Subproject	Construction	- Air Quality, - Noise Quality, - Ground Water Quality, - Soil Quality	22.06.2024 to 24.06.2024	- Near Bakra Mandi - Near Fire Station - Swamiyo Ka Jav - Near Bhagton Ka Johad	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 50.6 to 67.6 µg/m³) and PM_{2.5} (ranges from 22.1 to 25.8 µg/m³) values (PM₁₀) in all 6 locations whereas values (PM_{2.5}) in 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
					- Derana Johad (Disposal Point) - Badrana Johar (Disposal Point)	Noise quality monitoring conducted at 6 locations. Day time results ranges from 58.4 to 63.5 dBA and night time results ranges from 46.1 to 58.4 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.
8.	Jodhpur (Wastewater Subproject)	Construction	- Air Quality, - Noise Quality, - Ground Water Quality, - Soil Quality	21.06.2024 to 22.06.2024	- 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 65.0 to 66.4 µg/m³ and PM_{2.5} (ranges from 24.2 to 26.9 µg/m³) values (PM₁₀) in all 2 locations whereas values (PM_{2.5}) 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 2 locations. Day time results ranges from 63.5 to 64.2 dBA and night time results ranges from 49.3 to 51.1 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.
9.	Jodhpur (Drainage Subproject)	Construction	- Air Quality, - Noise Quality, - Ground & Surface Water Quality, - Soil Quality	22.05.2024 to 28.05.2024	- Near Derby Colony - Near Junao Complex - Banar Road Nandri - STP Plant, Salawas - Near Jojri River - Near Railway Line Banar - Opposite khangta hospital Banar	- Air quality monitoring conducted at 7 locations and results are more than national standards for 1 location & are within national standards for all parameters in 6 locations, whereas PM₁₀ (ranges from 83.0 to 135.0 µg/m³ and PM_{2.5} (ranges from 45.0 to 66.0 µg/m³) values in all 7 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 7 locations. Day time results ranges from 55.4 to 70.2 dBA and night time results ranges from 36.8 to 41.9 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 7 locations whereas noise quality results during night time were within prescribed

S. No	Name of town	Stage of project monitoring	Type of environmental monitoring	Period of sampling	Locations covered	Summary of Results and comparison with National Standards and ADB SPS requirements
						limits as per the national standards as well as ADB SPS recommended standards for residential areas at all 7 locations.
10.	Nathdwara Water Supply Subproject	Construction	• Air Quality, • Noise Quality, • Ground & Surface Water Quality, • Soil Quality	21.06.2024 to 22.06.2024	• WTP, Nand Samand • 15 KL OHSR Nathwas • 300 KL, OSHR Bhandri Bawbari • Pipe Laying Site Sukhadiya Nagar	• 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 76.7 to 82.8 µg/m³ and PM_{2.5} (ranges from 32.7 to 39.0 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 58.9 to 67.3 dBA and night time results ranges from 42.7 to 46.9 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 4 locations whereas noise quality results during night time were within prescribed limits as per both standards at 2 locations.
11.	Nimbahera Water Supply Subproject	Construction	• Air Quality, • Noise Quality, • Ground Water Quality, • Soil Quality	17.06.2024 to 18.06.2024	• Near RUIDP Camp Office • Near WTP, Arniya Joshi • Near 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 79.1 to 82.9 µg/m³ and PM_{2.5} (ranges from 34.6 to 38.6 µg/m³) values in all 3 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. • Noise quality monitoring conducted at 3 locations. Day time results ranges from 57.2 to 64.9 dBA and night time results ranges from 41.3 to 45.1 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 3 locations whereas noise quality results during night time were within prescribed limits as per both standards at 2 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
12.	Nokha Water Supply & Wastewater Subproject	Construction	- Air Quality, - Noise Quality, - Ground Water Quality, - Soil Quality	10.06.2024 to 13.06.2024	- SPS Site - Raiser Head Works - AEN Campus, Nanuwali Gate - Ranarao (HW) - Charkara STP (5 MLD) - Water Distribution Network, Zone 9, Near Santoshi Chowk	- 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 66.2 to 75.1 µg/m³ and PM_{2.5} (ranges from 25.4 to 37.0 µg/m³) values in all 6 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 6 locations. Day time results ranges from 53.8 to 63.8 dBA and night time results ranges from 40.4 to 52.7 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 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 4 locations.
13.	Dungarpur Water Supply & Wastewater Subproject	Construction	- Air Quality, - Noise Quality, - Ground Water Quality, - Soil Quality	08.04.2024 to 09.04.2024	- 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 all 3 locations, whereas PM₁₀ ranges from 71.6 to 81.7 µg/m³ and PM_{2.5} ranges from 29.3 to 35.2 µg/m³) values in all 3 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 3 locations. Day time results ranges from 65.2 to 72.5 dBA and night time results ranges from 58.7 to 65.2 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 for all 3 locations.
14.	Sagwara Water Supply & Wastewater Subproject	Construction	- Air Quality, - Noise Quality,	08.04.2024 to 09.04.2024	- CWR Pumping Station - Near Indian Oil Petrol Pump	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 57.3 to 61.9 µg/m³ and PM_{2.5} (ranges from 20.3 to 23.0 µg/m³) values (PM₁₀) in

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		Punarwas Colony (1.0 MLD)	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 63.2 to 67.9 dBA and night time results ranges from 56.9 to 61.1 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 for both locations.
15.	Barmer Wastewater subproject	Construction	- Air Quality, - Noise Quality, - Ground Water Quality, - Soil Quality	23.06.2024 to 24.06.2024	- Ram Nagar Nehru Road - Chamunda Circle, Vishnu Colony - CRMC Building Mahavir Nagar - Shastri Nagar	- Air quality monitoring conducted at 4 locations and all results are within national standards for all parameters in all 4 locations, whereas PM₁₀ (ranges from 71.7 to 74.3 µg/m³ and PM_{2.5} (ranges from 22.7 to 25.3 µg/m³) values (PM₁₀) in all 3 locations whereas values (PM_{2.5}) 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 4 locations. Day time results ranges from 61.6 to 63.2 dBA and night time results ranges from 40.9 to 43.3 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards for residential areas at all 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 all locations.
16.	Balotra Water supply & Wastewater Subprojects	Construction	- Air Quality, - Noise Quality, - Ground Water Quality	24.06.2024 to 25.06.2024	- Sukh Nagar Colony - Near Raghunath Ji Temple - OHSR ward no. 42	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 75.4 to 77.0 µg/m³ and PM_{2.5} (ranges from 25.0 to 27.4 µg/m³) values in all 3 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards.

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 3 locations. Day time results ranges from 61.6 to 63.3 dBA and night time results ranges from 40.9 to 42.5 dBA. Results show that during day time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards at all 3 locations whereas noise quality results during night time were within national standards as well as ADB SPS recommended standards at all 3 locations.
17.	Jaiselmer Beautification subproject	Construction	- Air Quality, - Noise Quality, - Ground Water Quality, - Soil Quality	22.06.2024	Gadisar Lake Near Café Back Side	- Air quality monitoring conducted at 1 location and results for PM₁₀ are more than national standards. Test result for PM₁₀ was 128.8 µg/m³ and for PM_{2.5} was 32.5 µg/m³ values for both PM₁₀ & PM_{2.5} are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 1 location. Day time result was 61.8 dBA and night time result was 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.
18.	Sagwara City Beautification subproject	Construction	- Air Quality, - Noise Quality, - Surface Water Quality,	01.05.2024 to 02.05.2024	- Masaniya Lake - Hariyala Lake - Gamleshwar Lake 2 - Gamleshwar Lake 1 - Lohariya Lake	- Air quality monitoring conducted at 5 locations and results for PM₁₀ are more than national standards in all 5 locations, whereas PM₁₀ (ranges from 154.6 to 185.3 µg/m³ and PM_{2.5} (ranges from 29.4 to 43.1 µg/m³) values in all 3 locations are more than applicable ADB SPS limits. All other parameters are within prescribed limits as per both standards. - Noise quality monitoring conducted at 5 locations. Day time result ranges from 49.5 to 53.4 dBA and night time result ranges from 41.6 to 47.9 dBA. Results show that during night time, noise quality results were slightly higher than the national standards as well as ADB SPS recommended standards at 3 locations.

8. ASBESTOS MANAGEMENT

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

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

26. PMU have mobilized the ACM Management Expert (ACMME) and ACMME has prepared 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 Bharatpur**

1.	Towns visited: Bharatpur	
	Date of site Visit: 30.04.2024	
	Person visited the Site: Mr. Vardan Srivastava, Environmental Safeguard Professional, & Mr. Mani Kumar, Environment Safeguard Support Staff, CMSC-01	
	Discussion with:	Topics of discussion
	Meeting with:	Outcome
	- Mr. Rajul Kumar, Executive Engineer (EE), PIU-Bharatpur - Mr. Lokendra Kumar Jain, Assistant Engineer (AEN), PIU-Bharatpur	Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines Labour camp facilities Material Stacking and Housekeeping issues at site Environment, Health and Safety site specific issues Labour and Site Staff Medical Health Check-up Submission of Monthly Progress report
		Legal and Contractual permissions and Environmental Regulatory documents are being updated and complied by the contractor & updated to comply ADB-SPS 2009 guidelines. 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. Material was dumped at site on random areas which were leads to minor or major injuries to site engaged workers. So, directed to contractor team to maintain proper stacking of the material (below 1m height) at safe and designated area with proper partition of material with display board and duly covered site material with tarpaulin or green net to minimize any physical damage. Site specific environment, health and safety issues were discussed with contractor team and suggested them appropriate control measures to prevent Near Miss/Incident/Accident at site On site workers and site staff's medical health check-up record was not maintained so directed to contractor team to organized medical health check-up for workers and site staff on monthly basis to identified health issues so that we can take precautionary measures accordingly. Instructed Contractor to comply all the observation suggested during site visit and update all monthly Environments, Health and Safety (EHS) formats in organized manner and submit Monthly Progress Report on or before first week of every month.

Site Visited Dungarpur

2.	Towns visited: Dungarpur (Water Supply & Wastewater Sub Project) Town		
	Date of site Visit: May 2024		
	Person visited the Site: Mr. Ram Singh Yadav (Environmental Safeguard Support) along with Support Engineers CMSC-2 Dungarpur		
	Discussion with:	Topics of discussion	Outcome
	Meeting with: • Mr. Ashok Kumar Jangid, Superintending Engineer, PIU, Dungarpur • Mr. Anil Kumar Patidar, Assistant Engineer, PIU, Dungarpur • Mr. Ashok Kumar Jangir, Assistant Contract Manager (ACM), CMSC -02, Dungarpur	Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement	Legal and Contractual permissions and Environmental Regulatory documents are being updated and complied by the contractor & updated to comply ADB-SPS 2009 guidelines.
		Compliance of observation made by PMCBC in Site Specific Environment Management Plant (SEMP)	Observations in Site Specific Environment Management Plant (SEMP) are being complied and SEMP will be submitted shortly.
		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 to prepare all the Environment, Health and Safety (EHS) documentation on monthly basis and keep updating all documentation in proper manner for record purpose.
		Medical Health Check-up of Labour and Site Staff	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.
		Submission of Monthly Progress report	Instructed Contractor to comply all the observation suggested during site visit and update all monthly Environments, Health and Safety (EHS) formats in organized manner and submit Monthly Progress Report on or before first week of every month.

Site Visited Sagwara

3.	Towns visited: Sagwara (Water Supply & Wastewater Sub Project) Town		
	Date of site Visit: 16.05.2024 to 20.05.2024		
	Person visited the Site: Mr. Ram Singh Yadav (Environmental Safeguard Support) along with Support Engineers CMSC-2 Dungarpur		
	Discussion with:	Topics of discussion	Outcome
	Meeting with: - Mr. Madhusudan Gena, Executive Engineer, PIU, Sagwara - Mr. Rahul Choudhary, Senior Constriction Engineer (SEC), CMSC -02, Sagwara	Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines.	Legal and Contractual permissions and Environmental Regulatory documents are being updated and complied by the contractor & it will be updated to comply ADB-SPS 2009 guidelines.
		Compliance of observation made by PMCBC in Site Specific Environment Management Plant (SEMP)	Observations in Site Specific Environment Management Plant (SEMP) are being complied and SEMP will be submitted shortly.
		Medical Health Check-up of Labour and Site Staff	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 Observation Report: Site specific observations and their control measures discussed with them	Instructed contractor to implement the same on urgent basis.
		Submission of Monthly Progress report	Instructed Contractor to comply all the observation suggested during site visit and update all monthly Environments, Health and Safety (EHS) formats in organized manner and submit Monthly Progress Report on or before first week of every month.

Site Visited Bhawani Mandi (Drainage)

4.	Towns visited: Bhawani Mandi		
	Date of site Visit: 22-23 May 2024		
	Person visited the Site: Mr. Naresh Mahawer, Gender, Social Safeguard and Environmental Support Staff, CMSC-01 RUIDP Bhawani Mandi		
	Discussion with:	Topics of discussion	Outcome
	Meeting with: - Mr. Pankaj Nautiyal, Project Manager, RGI - Mr. Abhilove Gupta Site Incharge - Contractor Team	Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines.	Legal and Contractual permissions and Environmental Regulatory documents are being updated and complied by the contractor & it will be updated to comply ADB-SPS 2009 guidelines.
		Quarterly Environment Monitoring:	Instructed contractor to conduct Quarterly Environmental monitoring for 2 nd Quarter (April to June) of year 2024. The testing shall be done by a NABL acridities laboratory.
		Compliance of observation made by PMCBC in Site Specific Environment Management Plant (SEMP)	Observations in Site Specific Environment Management Plant (SEMP) are being complied and SEMP will be submitted shortly.
		Labour camp facilities	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.
		Medical Health Check-up of Labour and Site Staff	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 Observation Report: Site specific observations and their control measures discussed with them	Instructed contractor to implement the same on urgent basis.
		Submission of Monthly Progress report	Instructed Contractor to comply all the observation suggested during site visit and update all monthly Environments, Health and Safety (EHS) formats in organized manner and submit Monthly Progress Report on or before first week of every month.

Site Visited Bundi Town

5.	Towns visited: Bundi Town		
	Date of site Visit: 08.07.2024		
	Person visited the Site: Mr. Naresh Mahawer, Gender, Social Safeguard and Environmental Support Staff, CMSC-01 RUIDP Bundi		
	Discussion with:	Topics of discussion	Outcome
	Meeting with: Contractor Team	Discussion about status of road restoration	Discussed about pending road restoration work to complete before start rainy season.
		Status of pipe laying work	Discussed on laying work and no excavation is permitted in rainy season so complete pending work and do restoration.
		Plantation planning for this rainy season	Discussion to ensure mega drive for plantation at STP.
		Arrangement of Labour camp facilities in rainy season	Discussion about welfare services for labour in rainy season.
		Safety Training according to rainy season	Discussed to safety officer training as per working for follow safety.
		Labour Camp and PPE kit	Discussed about the facilities provided by contractor in summer season and use proper PPE kit on site work ensure safety.
		Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines.	Legal and Contractual permissions and Environmental Regulatory documents are being updated and complied by the contractor & it will be updated to comply ADB-SPS 2009 guidelines.
		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 Observation Report: Site specific observations and their control measures discussed with them	Instructed contractor to implement the same on urgent basis.
		Submission of Monthly Progress report	Instructed Contractor to comply all the observation suggested during site visit and update all monthly Environments, Health and Safety (EHS) formats in organized manner and submit Monthly Progress Report on or before first week of every month.

Site Visit: Ratangarh (Drainage) sub Project Town

6.	Towns visited: Ratangarh (Drainage) sub Project		
	Date of site Visit: 12.08.2024 to 16.08.2024		
	Person visited the Site: Mr. Ugrasen Kumar (Environmental Safeguard Support) along with Support Engineers CMSC – 2 & Mr. Abey Arraham (Safety Engineer) RGI, Ratangarh		
	Discussion with:	Topics of discussion	Outcome
	Meeting with: - Mr. R.D Garg Executive Engineer PIU, Ratangarh - Mr. O.P Bairwa Assistant Engineer, PIU, Ratangarh - Mr. Pankaj Kumar jha, Assistant Contract Manager (ACM), CMSC -02, Ratangarh - Contractor Team	Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines.	Legal and Contractual permissions and Environmental Regulatory documents are being updated and complied by the contractor & it will be updated to comply ADB-SPS 2009 guidelines.
		Compliance of observation made by PMCBC in Site Specific Environment Management Plant (SEMP)	Observations in Site Specific Environment Management Plant (SEMP) are being complied and SEMP will be submitted shortly.
		Labour camp facilities	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.
		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.
		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 Observation Report: Site specific observations and their control measures discussed with them	Instructed contractor to implement the same on urgent basis.
		Submission of Monthly Progress report	Instructed Contractor to comply all the observation suggested during site visit and update all monthly Environments, Health and Safety (EHS) formats in organized manner and submit Monthly Progress Report on or before first week of every month.

Site Visited Jodhpur Town

7.	Towns visited: Jodhpur (Drainage Sub Project) Town		
	Date of site Visit: 19.09.2024		
	Person visited the Site: Mr. Mayank Kumar Vyas (Environmental Safeguard Support), CMSC – II, Jodhpur		
	Discussion with:	Topics of discussion	Outcome
	Meeting with: • Vasudeva Parmer, (site Engineer SMCC-AG JV) • Bala Ram (site Supervisor SMCC-AG JV) • Contractor Team	Status of Legal and Contractual and Environmental Regulatory Compliances documents requirement for compliance of Environment, Health and Safety policy of ADB SPS-2009 guidelines.	Legal and Contractual permissions and Environmental Regulatory documents are being updated and complied by the contractor & it will be updated to comply ADB-SPS 2009 guidelines.
		Compliance of observation made by PMCBC in Site Specific Environment Management Plant (SEMP)	Observations in Site Specific Environment Management Plant (SEMP) are being complied and SEMP will be submitted shortly.
		Labour camp facilities	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.
		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.
		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 Observation Report: Site specific observations and their control measures discussed with them	Instructed contractor to implement the same on urgent basis.
		Submission of Monthly Progress report	Instructed Contractor to comply all the observation suggested during site visit and update all monthly Environments, Health and Safety (EHS) formats in organized manner and submit Monthly Progress Report on or before first week of every month.

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 Bharatpur, Dungarpur, Sagwara, Bhawani Mandi, Bundi, Ratangarh and Jodhpur sub project towns was done during this reporting period April 2024 to September 2024.

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 April 2024 to September 2024)

S. No.	Orientation/Training	Date & Location	Demonstrators	Participants
1	Town: Bharatpur			
	- Importance of Work at Height Safety Standard - Importance of Housekeeping at site. - Importance of Personal Protective Equipment's (PPE's).	30.04.2024 SPS-03 (1.64 MLD); Zone 3; Mukherjee Nagar	Mr. Vardan Srivastava, Environmental Safeguard Professional & Mr. Mani Kumar, Environment Safeguard Support, CMSC-01 Jaipur	Total Workers: 7 Male: 7 Female: 0
2	Town: Dungarpur			
	- Personal Safety Equipment's - Safety during working at height, - Safety during working in pit excavation - Safety During Casting - Possible accidents and safety measures, - Safety during iron bar cutting, - Solid waste (domestic, construction, and spoils) management; - Areas of safety concerns in construction works;	10.05.2024 New Colony, Subhas Nagar & Sivaji Nagar	Mr. Ram Singh Yadav (Environmental Safeguard Support), CMSC – 2.	Total Workers: 15 Male: 12 Female: 3
3.	Town: Sagwara			
	- Personal Safety Equipment's - Safety during working at height, - Safety during working in pit excavation - Safety During Casting - Possible accidents and safety measures, - Safety during iron bar cutting, - Solid waste (domestic, construction, and spoils) management; - Areas of safety concerns in construction works;	11.05.2024 Hariom Colony & Shiv Colony	Mr. Ram Singh Yadav (Environmental Safeguard Support), CMSC – 2.	Total Workers: 13 Male: 6 Female: 7
4.	Town: Bhawani Mandi			
	- Importance of Personal Protective Equipment's (PPE's) - Importance of Work at Hot work.	23.05.2024 New Drain 3-4	Mr. Naresh Mahawer, Gender, Social Safeguard and Environmental Support, CMSC-01.	Total Workers: 09 Male: 09 Female: 0

S. No.	Orientation/Training	Date & Location	Demonstrators	Participants
	- Possible accidents and safety measures. - Importance of First aid			
5.	Town: Bundi			
	- Importance of Personal Protective Equipment's (PPE's) - Importance of Work at Height Safety Standard, Hot work - Importance of Mask and Sanitizer for Covid-19 safety.	08.07.2024 STP Ramganj Balaji	Mr. Naresh Mahawer, Gender, Social Safeguard and Environmental Support Staff, CMSC-01	Total Workers: 06 Male: 06 Female: 0
6.	Town: Ratangarh			
	- Importance of Personal Protective Equipment's (PPE's) - Occupational and community health & safety; - Safety during working at height, - Safety during working in pit excavation - Safety During Casting - Female safety and security during working - Possible accidents and safety measures, - Safety during iron bar cutting, - Safety during Welding - Solid waste (domestic, construction, and spoils) management; - Areas of safety concern in construction works.	24.08.2024 Railway Colony & Hanuman Park	Mr. Ugrasen Kumar Environment Safeguard Support, CMSC-2, Ratangarh	Total Workers: 12 Male: 12 Female: 0
7.	Town: Jodhpur			
	- Personal Safety Equipment's - Safety during working at height, - Safety during working in pit excavation. - Safety During Casting. - Possible accidents and safety measures, - Safety during iron bar cutting, - Solid waste (domestic, construction, and spoils) management; - Areas of safety concerns in construction works;	19.09.2024 Drainage site	Mr. Mayank Kumar Vyas (Environmental Safeguard Support), CMSC – 2, Jodhpur	Total Workers: 18 Male: 18 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 APRIL 2024 TO SEPTEMBER 2024

S. No.	Date and place of consultation	Persons consulted	Topics discussed during consultation	Outcome of consultation
1.	Date: 30.04.2024 Town: Bharatpur • Adarsh Colony; Zone 3 & • Subhash Nagar; Zone 4	Local residents Total Person Consulted:3 Male-2; Female- 1	Any grievance due to laying of sewerage pipeline and other structural construction work activities.	Local public appreciated RUIDP project work
2.	Date: 22.05.2024 Town: Bhawani Mandi • Bheem Nagar • New Drain 07	Local residents Total Person Consulted:8 Male-2; Female- 6	Any grievance due to construction work activities at drainage project	Local residences were provided with the adequate details they were satisfied with project site work and appreciated the site work.
3.	Date: 08.07.2024 Town: Bundi • Luhar Gali • Ghasiyara Moahalla	Local residents Total Person Consulted:18 Male-8; Female- 10	Pipe laying excavation work and take feedback of RUIDP work	Pipe laying work done within one day and Local public appreciated RUIDP project work.
4.	Date: 24.08.2024 Town: Ratangarh	Local residents Total Person Consulted:8 Male-8; Female- 0	Discussed and Awareness generation about Sanitation & Hygiene, Housekeeping surrounding and Any grievance due to construction work activities at drainage project.	Local residences are satisfied with project site work and appreciate the site work.
5.	Date: Town: Jodhpur • At salawas chainge 12000 M	Local residents Total Person Consulted:12 Male-6; Female- 6	Any Grievance due to laying of Drainage work activities.	Local residences are satisfied with project site work and appreciate the site 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 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-

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 (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.

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 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,

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.

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

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. 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

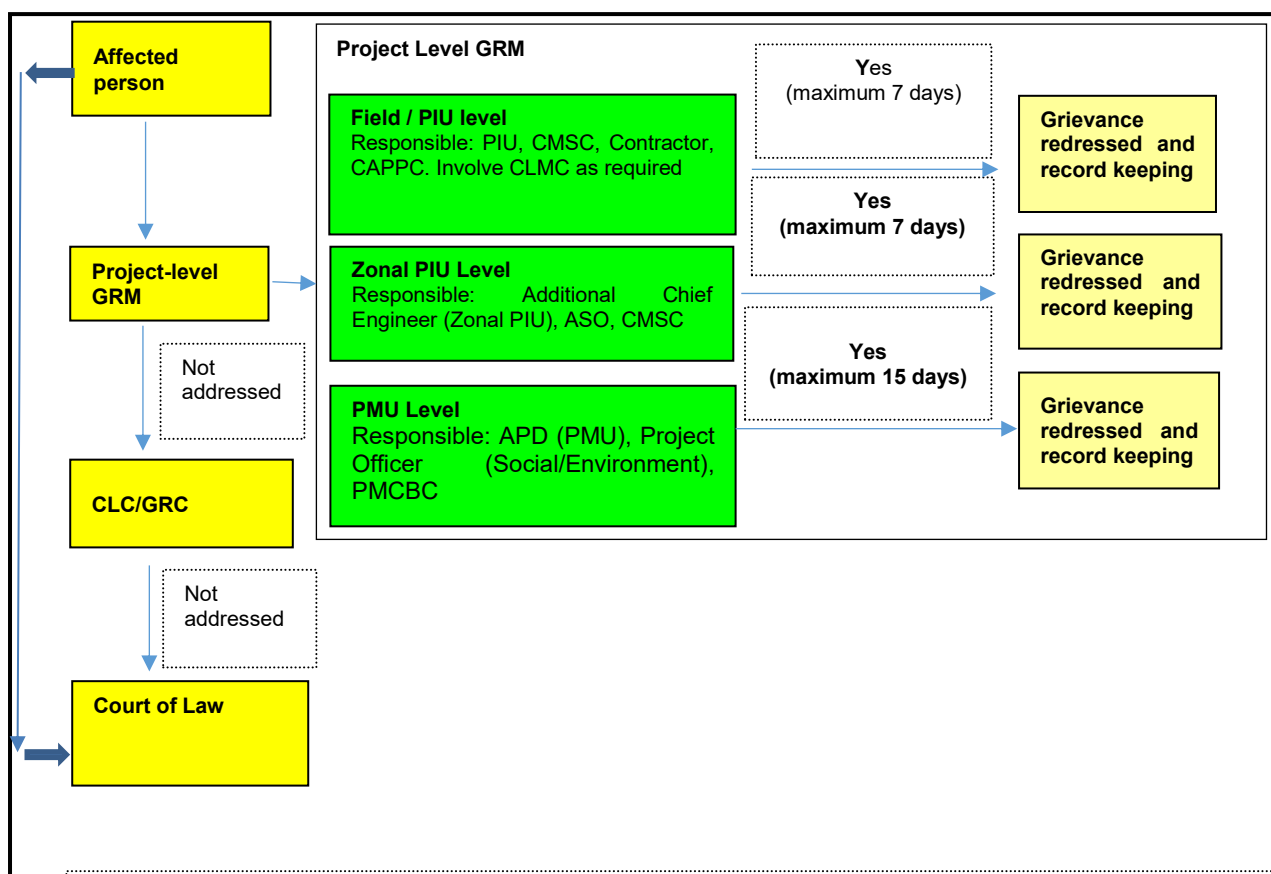
⁹ The CLMC has been formed at the town/city level for planning and monitoring of work, resolve issues related to departmental coordination etc. It is headed by Commissioner/Executive Officer ULB (Chairman) and city engineer of public health engineering department (PHED), public works department (PWD)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

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. Naryan Singh	Mr. Rajul Sharma	Mr. Nemi Chand Panwar	Mr. Vardan Srivastava	Mr. Nasir Hussain	Mr. KK Natani	Mrs Poornima Mahlawat	Mr Shiv rattan Parik
Bharatpur CB	Mr. Lucky Khandelwal	Mr. Rajul Sharma	Mr. Nemi Chand Panwar					
Bundi (WS&WW)	Mr. Lal Singh	Mrs. Sonam Sharma	Mr. Kush Kumar					
Bundi (Drainage)	Mr. Pankaj Nautiyal	Mrs. Sonam Sharma	Mr. Kush Kumar					
Nawalgrh	Mr. Vishal Pundhir	Mr. Nootan Prakash Saini	Mr. Nootan Prakash Saini					
Bhawani Mandi	Mr. Pankaj Nautiyal	Mr. Sonam Sharma	Mr. Devmitra					
Nokha	Mr. Kaneek Mathur	Mr. Deepak Mandan	Mr. Deepak Mandan, E.E.	Dr. Mahaveer Saini	Mr. Rajeev Sharma	Mr. Kamlesh Prakash Vyas A.C.E., Zone-Jodhpur		
Jodhpur (WW)	Mr. Vijendra Singh	Mr. Mahesh Joshi	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. S.N. Verma					
Ratangarh	Mr. Brajesh kumar chaturvedi	Mr. R.D. Garg	Mr.Surendra kumar Jaat					
Barmer	Mr. Bhawani singh	Mr. N.S. Chaudhary	Mr. N.S. Chaudhary					
Balotra	Mr. Ram Lal Chaudhaary	Mr. Shashikant Sharma	Mr. Shashikant Sharma					
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 (SEMPs) for all towns in pre-construction phase, are under review with PIU & PMU for approval from which SEMP for Nathdwara, Nimbahera, Bundi, Bharatpur, Dungarpur & Sagwara Ratangarh, Nawalgarh, Bundi and Bhawani Mandi sub project towns are approved and SEMP of Jodhpur Nokha, Barmer, Balotra, Jaisalmer, Sagwara & Bharatpur (City Beautification works) are under review by PIU & PMU and being followed in construction works. These SEMP also include Solid Waste and Spoil Management Plan, Traffic Management Plan, Health and Safety Plans, Workers camps plans, COVID-19 prevention and control plan, Asbestos Management Plan etc.

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 September 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. Five subprojects, Namely Bundi city beautification, Pushkar city beautification, Mount Abu city beautification and Nathdwara city beautification and Nawalgarh city beautification are under bidding process.

50. IEEs of all 23 subproject towns have been prepared, of which 19 are approved by ADB, while for 4 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 4 towns (Bharatpur 9.4 MLD STP, Bundi 6.5 MLD STP, Nathdwara 11 MLD WTP & Nimbahera 5.74 MLD WTP) were already obtained during last reporting period (October 2023 to March 2024) and CTEs for 4 towns (Nokha 5 MLD STP, Dungarpur 4 MLD STP, Sagwara 3.6 MLD STP, Bundi 8 MLD WTP) are obtained and CTE applied for 5 MLD STP, Jodhpur during this reporting period (April 2024 to September 2024). CTO will be obtained prior to commissioning of plants. Up to September 2024, total 9 applications for CTEs for STPs and WTPs were submitted out of which 8 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 already obtained from Rajasthan State Pollution Control Board for 1 STP 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 th December 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 th December 2024

APPENDIX 1: SELECTED PHOTOS OF SITE VISITS AND CONSTRUCTION WORKS**APPENDIX 1: PHOTOS OF SITE VISITS AND CONSTRUCTION WORKS**

Town: Bharatpur (Site Visited on dated 30.04.2024)

SPS -03 (1.64 MLD)

No edge protection was found at excavated SPS working area



Action taken: Excavated working area protected with safe excess and egress point to prevent workers to felt down and prevent incident/accident at site.



Non-standard scaffold erection was found at site. Erected scaffold was incomplete and gap found in working platform.



Action taken: Non-standard scaffold erection was removed to prevent incident/accident at site.



Good Practice: Informative project related details mentioned on structure area and emergency contact numbers mentioned on it for any grievance related quarry or any emergency.



Good Practice: All workers were working at site with wear of full personal protective equipment's (PPE's)



Good Practice: Maintain safety barricading and safety signage board at site during perform site work execution.



Good Practice: Maintain proper First Aid Box at site



Good Practice: Proper drinking facilities was provided for site workers

Town: Dungarpur (Site Visited during May 2024)

4.0 MLD STP, Admin Building New Colony, Subhas Nagar



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

Action taken: Safety equipment (PPEs) provided to workers at site to avoid any accident at the working site.



Good practice: labour was observed at site. working with proper safety equipment's, such as Helmet, shoes, and safety jacket etc.



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

Action taken: Labours provided with safety equipment such as Helmet, shoes, and safety jacket etc. to avoid any accident at the working site.

Town: Sagwara (Site Visited on dated 16.05.2024 to 20.05.2024)**4.0 MLD STP, Admin Building New Colony, Subhas Nagar**

	
Labor was observed at site working without proper safety equipment's, such as Helmet, shoes, and safety jacket etc.	Action taken: Provided safety equipment like jacket, shoes and helmet to workers at site.
	
No adequate barricading and proper project information board toll free number was observed at working site.	Action taken: Adequate barricading with proper displayed at working site.
	
No adequate barricading and proper project information board toll free number was observed at working site.	Action taken: Adequate barricading with proper display board made available at working site. Toll free number displayed.

Town: Bhawani Mandi (Site Visited on dated 22.05.2024)

No wooden planks available



Action taken: Wooden planks for shopkeeper provided.



Improper housekeeping observed at site



Action taken: Proper housekeeping maintained.

Town: Bundi (Site Visited on dated 08.07.2024)

Good practices: Road Restoration work is on progress at slope area before start rainy season and labour use PPE



Good practices: Hard Barricading before start road restoration work

Town: Ratangarh (Site Visited during August 2024)

	
Poor housekeeping was found at Construction site as construction material and other material was found at site.	Action taken: Housekeeping done and all working area made neat and clean and workers provided training on importance of housekeeping at site.
	
It was observed that there is no fire extinguisher is available at the site. Action taken: Fire extinguisher made available at site.	First Aid Box: It was found that there is no first Aid box is available at construction site. Action taken: First aid box provided at site
	
During the Site Visit It observed that some of workers found working Without Safety Helmet & Safety shoes.	Action Taken: Provided PPEs to workers at site.

	
Poor housekeeping was found at Construction site. Construction material, plastic bag and other construction material found at site.	Action Taken: Housekeeping done at site

Town: Jodhpur (Site Visited on dated 19.09.2024)

	
Worker were observed at site working without safety PPE kit	Action Taken: PPE provided to labours at site.
	
Proper Hard barricading with night reflector was missing on the edge area as per norms	Action Taken: Proper hard barricading provided.

APPENDIX 2: SAMPLE PHOTOGRAPHS OF CONSULTATIONS**Photos of Public Consultation, Bharatpur**

Attendance Sheet of Public Consultation, Bharatpur



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

Activity: Public/ Labour Consultation

Attendance Sheet

Place: STP Gopal Nagla Date: 29-05-2024

Topic/Issues Discussed: Labour Consultation
STP Gopal Nagla BHARATPUR

Sl. No.	Name	Gender		Occupation	Mobile No.	Signature
		M	F			
1.	राहुल			Labour		राहुल
2.	सुदर्शन			"	6203747253	सुदर्शन
3.	मालदेव			"		मालदेव
4.	आशु	✓		"	8122979123	आशु
5.	राजेश			"		राजेश
6.	पुलिस राय			"		पुलिस राय
7.	राम बाबू			"	9963313019	राम बाबू
8.	मनीष			"		मनीष
9.	आरविन्द			"		आरविन्द
10.	मिश्र			"		मिश्र
11.	सोहन			"		सोहन
12.	प्रदीप			"	798350597	प्रदीप
13.	सुमेर सिंह			"		सुमेर सिंह

Photos of Public Consultation, Bhawani Mandi (Drainage works)

Attendance Sheet of Public Consultation, Bhawani Mandi (Drainage Works)

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

Activity: Consultation

Attendance Sheet

Place: Bheem Nagar Date: 22/05/2023

Topic/Issues Discussed: Community Consultation regarding project work.

S. N.	Name	Gender		Occupation	Mobile No.	Signature
		M	F			
1.	Arti		✓	Housewife	9829908928	Arti
2.	Maya		✓	—	—	Maya
3.	Arti		✓	—	—	Arti
4.	Preeti		✓	Student	—	Preeti
5.	Pooja		✓	—	—	Pooja
6.	Kiran Suman		✓	House wife	8833485677	Kiran
7.	Durgashankar	✓		Shopkeeper	9602692250	Durgashankar
8.	Hariram	✓		Hamali/Carth	—	
9.						
10.						

Photos of Public Consultation, Bundi

Attendance Sheet of Public Consultation, Bundi

(A Unit of RUDSICO)

Rajasthan Secondary Towns Development Sector Project (RSTDSP)**RUIDP Phase-IV****Contract Management and Supervision Consultant (CMSC-01)****Activity: Consultation****Attendance Sheet (Water Supply & Waste Water Project)**Place: STP Romgaraj Balaji Date: 08/07/2024Topic/Issues Discussed: Focus Group Discussion at STP.

S. N.	Name	Gender		Occupation	Mobile No.	Signature
		M	F			
1.	Pooja		-	Housewife	9351617415	[Signature]
2.	Rajesh Verma		-	—11—	9950458681	[Signature]
3.	Mamta		-	—11—	—	[Signature]
4.	Meera Bai		-	labour	—	—
5.	Reena Saini		-	Housewife	—	[Signature]
6.	Kali Bai		-	—11—	—	—
7.	Kasti Saini		-	—11—	—	—
8.	Syamsi Bai		-	—11—	—	—
9.	Sona		-	—11—	—	—
10.	Dhupati		-	—11—	—	[Signature]
11.						
12.						

5

Photos of Public Consultation, Ratangarh (Drainage works)



Attendance Sheet of Public Consultation, Ratangarh (Drainage works)

PUBLIC CONSULTATION

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

Town: Rabongoch, Daudang Project

Place:

Date: 24/08/2024

[illegible]

Photos of Public Consultation, Jodhpur**Attendance Sheet of Public Consultation, Jodhpur**

Public Consultation Attendance Sheet			
Project Name: Rajasthan Secondary Towns Development Sector Project (RSTDSP) – Jodhpur			
subproject District -Jodhpur, Rajasthan			
S.No	Name	Locality	Signature
1	लक्ष्मी देवी	Jod	लक्ष्मी देवी
2	लोवारा देवी	"	लोवारा देवी
3	RTDSP	"	Sat
4	Rohita	"	R
5	राजकुमार	"	राजकुमार
6	राजकुमार	"	राजकुमार
7	श्रीमती देवी	"	श्रीमती देवी
8	तारा देवी	"	तारा देवी
9	OMDRAJJI	"	OMDRAJJI
10	तिवेंत	"	तिवेंत
11	राजकुमार	"	राजकुमार
	S. 05/04/21/9	"	H. 05/04/21/9

APPENDIX 3: COPIES OF ENVIRONMENTAL CLEARANCES AND PERMITS**A. Details of Consent to Establish (CTEs) and Consent to Operate (CTO) obtained during Reporting Period (April 2024 to September 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	Reported in previous 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	Reported in previous 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	Reported in previous 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	Reported in previous 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;	Reported in previous SEMR (October 2023 to March 2024)
6.		CTO obtained and valid from 01.12.2022 to 30.11.2027	Reported in previous SEMR (October 2023 to March 2024)
7.	5.0 MLD STP, Near Charkara Village, Nokha	CTE obtained and valid from 22.02.2024 to 31.01.2029	Reporting in Current SEMR (April 2024 to September 2024)
8.	4 MLD STP at Near Do river (Do Nadi) on Udaipur road, Dungarpur	CTE obtained and valid from 10.07.2024 to 30.06.2029	Reporting in Current SEMR (April 2024 to September 2024)
9.	3.6 MLD STP at near BSNL Telephone Exchange Office / Central Jail, near Banori, Sagwara	CTE obtained and valid from 23.07.2024 to 30.06.2029	Reporting in Current SEMR (April 2024 to September 2024)
10.	8 MLD WTP Bundi	CTE for 8 MLD WTP obtained and valid from 11.03.2024 to 28.02.2029	Reporting in Current SEMR (April 2024 to September 2024)
11.	5 MLD STP at Khokhariya Village, Jodhpur	CTE application under process	Will be Reporting in upcoming SEMR (October 2024 to March 2025)

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.	Reported in Previous 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.	Reported in Previous SEMR (October 2023 to March 2024)
3.		Jodhpur (Drainage Sub Project town) – RTO Naala – - SE, PIU, RUIDP, Jodhpur applied to District Collector, Jodhpur for 72 no. of tree cutting at RTO/Saran Nagar Naala vide letter no. F(05)RUIDP/Ph – IV/DM/P02/6380 on dated 22.04.2024. - Permission for 76 nos. of tree cutting is obtained for RTO Nallah on dated 11.09.2024.	Reporting in Current SEMR (April 2024 to September 2024)
4.		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/ 2024/27on dated 10.01.2024. - Tehsildar, Kudi Bhagtasni, Jodhpur instructed land record inspector Kudi Bhagtasni Jodhpur for land Inspection	Reporting in upcoming SEMR (October 2024 to March 2025)

S.No.	Type of permission / NOCs	Name of Town and Status of Permission	Reported in which SEMR
		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.	
5.	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	Reported in Previous SEMR (October 2023 to March 2024)
6.		Bharatpur (City Beautification sub project) town - Permission obtained from State Archeological Department, Bharatpur for town hall Repairing vide letter no. vide letter no. पु. स. /स.प्रा./23/11612 on dated 24.08.2023	Reported in Previous SEMR (October 2023 to March 2024)
7	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 (October 2024 to March 2025)
8.		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. - Permission for Stage-1 is obtained.	Reporting in upcoming SEMR (October 2024 to March 2025)
			Reporting in Current SEMR (April 2024 to September 2024)

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

Consent to Establish (CTE) for 5 MLD STP, Nokha

Regional Office Bikaner
Rajasthan State Pollution Control Board
33, Phase-II, Bichwal Industrial Area, Bikaner
Phone: 0151-2250006



Registered

File No : F(Tech)/Bikaner(Nokha)/6934(1)/2024-2025/424-425

Order No : 2024-2025/Bikaner/10899

Dispatch Date: Jun 25 2024 6:39PM

Unit Id : 133003

M/s Sewage Treatment Plant, Charkara

Khasra No 1574, Charkara Tehsil:Nokha

District:Bikaner

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 22/02/2024 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 **Sewage Treatment Plant** situated / proposed at **Khasra No 1574 Charkara Tehsil:Nokha District:Bikaner**, 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 **22/02/2024** to **31/01/2029** or **date of commencement of production / commissioning of the project or activities whichever is earlier**.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

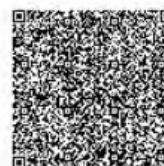
Particular	Type	Quantity / Capacity
Sewage Treatment Plant	Service	5.00 MLD

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

Page 1 of 5

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Date: 2024.06.25 12:39:09 IST
Reason: Self Attested
Location:





Regional Office Bikaner
Rajasthan State Pollution Control Board
 33, Phase-II, Bichwal Industrial Area, Bikaner
 Phone: 0151-2250006

Registered

File No : F(Tech)/Bikaner(Nokha)/6934(1)/2024-2025/424-425

Order No : 2024-2025/Bikaner/10899

Dispatch Date: Jun 25 2024 6:39PM

Unit Id : 133003

- 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	5000.000	NIL	5,000.000 On land For Plantation/ Horticulture flushing gardening etc

- 6 That the **Sewage Treatment Plant** will comply with the standards as prescribed vide MOEF notification No. GSR 826(E) dated 16th November, 2009 with respect to National Ambient Air Quality Standards.
- 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:

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

Page 2 of 5

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 Reason: Self Attested
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Regional Office Bikaner
Rajasthan State Pollution Control Board
 33, Phase-II, Bichwal Industrial Area, Bikaner

Phone: 0151-2250006

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File No : F(Tech)/Bikaner(Nokha)/6934(1)/2024-2025/424-425

Order No : 2024-2025/Bikaner/10899

Dispatch Date: Jun 25 2024 6:39PM

Unit Id : 133003

- 8 In addition to above total suspended solids in the treated effluent before disposal shall not exceed 20 mg/l.
- 9 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 10 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 11 That Project Proponent shall obtain all necessary permission from District Administration/Revenue department/UDH department/LSG department before operation of STP.
- 12 That above stated effluent standards are subject to the Hon'ble NGT order dated 30/4/2019 in matter of O.A. no 1068/2018 Nitin Shankar Deshpande Vs Union of India and Ors.
- 13 That efforts should be made to reuse the treated sewage to the maximum possible extent and minimize its discharge. A network of pipelines should be laid from the treated sewage collection tank to agriculture fields for utilization.
- 14 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 15 That Project Proponent shall install OCEMS at STP and submit compliance to State Board before operation of the unit.
- 16 The Project Proponent shall ensure regularly continuous data transfer for all parameters and flow meter on servers of State Board and Central Pollution Control Board.
- 17 That regular maintenance and operation of the OCEMS with temper proof mechanism with facilities for calibration shall be ensured.
- 18 That any incorrect information submitted in the consent application form or declaration shall make the industry liable for legal action under section 42 of the water and section 38 of the Air Act.
- 19 That the unit shall not dispose of waste materials outside the premises to avoid any possible nuisance to nearby inhabitants. Such waste material shall be collected at one place and shall be disposed off in safe manner.
- 20 That the unit shall not carry out any modification/change in process or manufacture/produce any other products/byproducts which require environment clearance as per the provisions of Environment Impact Assessment Notification dated 14.09.2006 issued by Ministry of Environment & Forests, Government of India.
- 21 That the unit shall comply with the provisions of Hazardous waste (Management Handling and Transboundary Movement) Rules 2016 and daily record of sludge generation and its disposal shall be maintained, if applicable.

Page 3 of 5

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 Date: 2024.06.25 12:39:09 IST
 Reason: Self Attested
 Location:





Regional Office Bikaner
Rajasthan State Pollution Control Board
 33, Phase-II, Bichwal Industrial Area, Bikaner
 Phone: 0151-2250006

Registered

File No : F(Tech)/Bikaner(Nokha)/6934(1)/2024-2025/424-425

Order No : 2024-2025/Bikaner/10899

Dispatch Date: Jun 25 2024 6:39PM

Unit Id : 133003

- 22 That this consent to establish shall be subject to compliance of any direction or order passed by Court of Law in the matter.
- 23 That the water flow meters shall be provided at all suitable points and Daily record of the same shall be maintained and to be submitted to the Board.
- 24 Unit shall install energy meter and digital flow meter at outlet of STP and has maintain the record.
- 25 That ground water shall not be withdrawn without obtaining permission from the Central Ground Water Authority.
- 26 The sludge shall be dried to have the moisture content less than 10% before disposal as manure.
- 27 That the industry shall comply with the standards as prescribed vide MOEF notification no. GSR 826(E) dated 16th November, 2009 with respect to National Ambient Air Quality.
- 28 That the industry shall ensure compliance of ambient air quality standard in respect of noise as prescribed under Environment (Protection) Act & Rules made therein
- 29 That this consent to establish is valid for Production of Sewage Treatment Plant (FSTP) @ 5 MLD Only. For any change in product & its capacity, the unit has to seek fresh consent.
- 30 That the unit shall obtain Consent to operate under Air Act,1981 from the State Board before commissioning of this project.
- 31 That the water flow meters shall be provided at all suitable points to measure quantity of water consumption, trade effluent & domestic waste water generation, treated waste water recycled and utilized for plantation/gardening purposes. Daily record of the same shall be maintained and to be submitted to the Board.
- 32 That the industry shall provide adequate infrastructure facilities for stack monitoring to know the concentration of pollutant emitted in the atmosphere with Induction furnace per emission regulation- Part III.
- 33 That the industry shall obtain Environmental Clearance from competent authority under EIA Notification dated 14.9.2006 for any such activity which attracts Environmental Clearance under aforesaid Notification.
- 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 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.

Page 4 of 5

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Digitally signed by: Rakumar Meena
 Date: 2024.06.25 18:39:09 IST
 Reason: Self Attested
 Location:





Regional Office Bikaner
Rajasthan State Pollution Control Board
33, Phase-II, Bichwal Industrial Area, Bikaner
Phone: 0151-2250006

Registered

File No : F(Tech)/Bikaner(Nokha)/6934(1)/2024-2025/424-425

Order No : 2024-2025/Bikaner/10899

Dispatch Date: Jun 25 2024 6:39PM

Unit Id : 133003

35 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.

36 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[Bikaner]

(A): Copy to:-

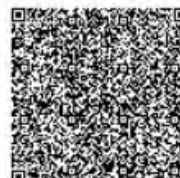
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Regional Officer[Bikaner]

Page 5 of 5

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Date: 2024.06.25 18:39:09 IST
Reason: SelfAttested
Location:



Consent to Establish (CTE) for 4 MLD STP, Dungarpur

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

**Registered**

File No : F(Tech)/Dungarpur(Sagwara)/59(1)/2024-2025/653-654

Order No : 2024-2025/Banswara/10160

Dispatch Date: Aug 22 2024 3:59PM

Unit Id : 135048

M/s Sewerage Treatment Plant**Nagar Parishad , Dungarpur Tehsil:Dungarpur****District:Dungarpur**

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 10/07/2024 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 **4 MLD STP plant** situated / proposed at **Near Do River, Udaipur Road UDAIPURA , Dungarpur Tehsil:Dungarpur District:Dungarpur**, 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 **10/07/2024** to **30/06/2029 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	4.00 MILLION LITRES/ DAY

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

Page 1 of 5

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 Date: 2024.08.22 15:59:07 IST
 Reason: SelfAttested
 Location:





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

Registered

File No : F(Tech)/Dungarpur(Sagwara)/59(1)/2024-2025/653-654

Order No : 2024-2025/Banswara/10160

Dispatch Date: Aug 22 2024 3:59PM

Unit Id : 135048

- 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	4000.000	NIL	4,000.000 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:

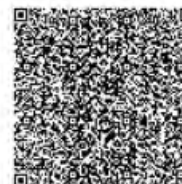
Sources of Air Emissions	Pollution Control Measures	Prescribed	
		Parameter	Standard
DG Set(200KVA)	ACOUSTIC ENCLOSURE, ADEQUATE AIR POLLUTION CONTROL MEASURES	--	--

- 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 5

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Digitally signed by: Ravi Kumar Chandel
 Date: 2024.08.22 15:59:07 IST
 Reason: Self Attested
 Location:





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

Registered

File No : F(Tech)/Dungarpur(Sagwara)/59(1)/2024-2025/653-654

Order No : 2024-2025/Banswara/10160

Dispatch Date: Aug 22 2024 3:59PM

Unit Id : 135048

Parameters	Standards
Phosphate as P	Not to exceed 1.0 mg/l
pH Value	Between 6.5 to 9.0
Biochemical Oxygen Demand (3 days at 27C)	Not to exceed 10 mg/l
Chemical Oxygen Demand	Not to exceed 50 mg/l
NH ₄ (N)	5 mg/l
N total	10 mg/l
Total Suspended Solids	Not to exceed 20 mg/l
Fecal Coliform (MPN per 100 ml)	Not to exceed 100

- 8 A. That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
 B. That ground water shall not be extracted without prior permission from CGWA.
 c. That grant of consent shall not absolve the project proponent from making Compliance of other statutory obligations prescribed under any other law or directions of courts or any other instrument for the time being in force.
- 9 A. That this Consent to establish of consent application 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.
 B. That unit shall not install any source of air/water pollution such as DG set (other than DG set of 200 KVA capacity) without prior consent from State Pollution Control Board.
- 10 That no untreated effluent shall be discharged into any other water body and entire treated sewage shall be utilized in plantation/horticulture/other gainful purposes if possible.
- 11 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 12 That sewage network along with house connections will be completed simultaneously with the commissioning of the STP

Page 3 of 5

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 Reason: Self Attested
 Location:





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

Registered

File No : F(Tech)/Dungarpur(Sagwara)/59(1)/2024-2025/653-654

Order No : 2024-2025/Banswara/10160

Dispatch Date: Aug 22 2024 3:59PM

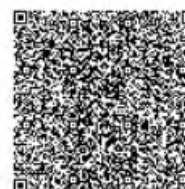
Unit Id : 135048

- 13 That above stated effluent standards are subject to the Hon'ble NGT order dated 30/4/2019 in matter of O.A. no 1069/2018 Nitin Shankar Deshpande Vs Union of India and Ors.
- 14 That efforts should be made to reuse the treated sewage to the maximum possible extent and minimize its discharge. A network of pipelines should be laid from the treated sewage collection tank to fields for utilization.
- 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.
- 16 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.
- 17 That the sludge will be properly digested, de-watered and the treated sludge will be used as manure or will be disposed in a scientific manner.
- 18 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 19 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 20 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.
- 21 That the grant of consent shall not absolve the project proponent from making compliance of other statutory obligations prescribed under any other law or directions of courts or any other legal instrument for the time being in force.
- 22 That fee for consent to establish has been deposited on the basis of estimated project cost of Rs. 1100 Lacs and in case of any increase in the project cost, the unit shall obtain consent to establish after paying fee as applicable.
- 23 That project proponent shall apply for consent to operate 60 days prior to the commissioning of proposed STP
- 24 That the unit shall ensure that chlorine gas handled with care and provide necessary arrangement to prevent the leakage of the gas.
- 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.

Page 4 of 5

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Digitally signed by Ravi Kumar Chandel
 Date: 2024.08.22 15:59:07 IST
 Reason: Self Attested
 Location:





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

Registered

File No : F(Tech)/Dungarpur(Sagwara)/59(1)/2024-2025/653-654

Order No : 2024-2025/Banswara/10160

Dispatch Date: Aug 22 2024 3:59PM

Unit Id : 135048

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[Banswara]

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

1 Master File.

Regional Officer[Banswara]

Page 5 of 5

Signature Not Verified

Digitally signed by Ravi Kumar Chandel
Date: 2024.08.22 15:59:07 IST
Reason: Self Attested
Location:





Environmental Monitoring Report

PUBLIC

Semestral Report: April 2024 – September 2024
December 2024

India: Rajasthan Secondary Towns Development Sector Project-Additional Financing

Part 2 of 3: Appendix 3 (continued) and Appendices 4 - 9

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

Asian Development Bank

This environmental monitoring report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature. Your attention is directed to the "terms of use" section of ADB's website.

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

Consent to Establish (CTE) for 3.6 MLD STP, Sagwara

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



Registered

File No : F(Tech)/Dungarpur(Sagwara)/58(1)/2024-2025/655-656

Order No : 2024-2025/Banswara/10161

Dispatch Date: Aug 22 2024 3:59PM

Unit Id : 135051

M/s 3.6 MLD Sewerage Treatment Plant

Executive Officer Nagarpalika Sagwara, Sagwara

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 23/07/2024 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 **3.6 MLD Sewage Treatment Plant** plant situated / proposed at **Near BSNL Exchange Office/Central Jail Sagwara Sagwara Tehsil:Sagwara District:Dungarpur**, 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 **23/07/2024** to **30/06/2029** or **date of commencement of production / commissioning of the project or activities whichever is earlier**.
- 2 That this Consent is granted for manufacturing / producing following products / by products or carrying out the following activities or operation/processes or providing following services with capacities given below:

Particular	Type	Quantity / Capacity
SEWAGE TREATMENT PLANT	Activity	3.60 MILLION LITRES/ DAY

- 3 That in case of any increase in capacity or addition / modification / alteration or change in product mix or process or raw material or fuel, the project proponent is required to obtain fresh consent to establish.
- 4 That the control equipment as proposed by the applicant shall be installed before trial operation is started for which prior consent to operate under the provision of the **Water Act 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 Ravi Kumar Chandel
 Date: 2024.08.22 15:59:26 IST
 Reason: Self Attested
 Location:





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

Registered

File No : F(Tech)/Dungarpur(Sagwara)/58(1)/2024-2025/655-656

Order No : 2024-2025/Banswara/10161

Dispatch Date: Aug 22 2024 3:59PM

Unit Id : 135051

- 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	3600.000	NIL	3,600.000 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(200KVA)	ACOUSTIC ENCLOSURE , 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 5

Signature Not Verified

Digitally signed by Ravi Kumar Chandel
 Date: 2024.08.22 15:59:26 IST
 Reason: SelfAttested
 Location:





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

Registered

File No : F(Tech)/Dungarpur(Sagwara)/58(1)/2024-2025/655-656

Order No : 2024-2025/Banswara/10161

Dispatch Date: Aug 22 2024 3:59PM

Unit Id : 135051

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

- 8 A. That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
 B. That ground water shall not be extracted without prior permission from CGWA.
 c. That grant of consent shall not absolve the project proponent from making Compliance of other statutory obligations prescribed under any other law or directions of courts or any other instrument for the time being in force.
- 9 a. That this Consent to establish 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.
 b. That unit shall not install any source of air/water pollution such as DG set (other than DG set of 200 KVA capacity) without prior consent from State Pollution Control Board.
- 10 That no untreated effluent shall be discharged into any other water body and entire treated sewage shall be utilized in plantation/horticulture/other gainful purposes if possible.
- 11 That the sludge will be properly digested, de-watered and used as manure or disposed in a scientific manner.
- 12 That sewage network along with house connections will be completed simultaneously with the commissioning of the STP

Page 3 of 5

Signature Not Verified

Digitally signed by Ravi Kumar Chandel
 Date: 2024.08.22 15:59:26 IST
 Reason: SelfAttested
 Location:





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

Registered

File No : F(Tech)/Dungarpur(Sagwara)/58(1)/2024-2025/655-656

Order No : 2024-2025/Banswara/10161

Dispatch Date: Aug 22 2024 3:59PM

Unit Id : 135051

- 13 That above stated effluent standards are subject to the Hon'ble NGT order dated 30/4/2019 in matter of O.A. no 1069/2018 Nitin Shankar Deshpande Vs Union of India and Ors.
- 14 That efforts should be made to reuse the treated sewage to the maximum possible extent and minimize its discharge. A network of pipelines should be laid from the treated sewage collection tank to fields for utilization.
- 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.
- 16 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.
- 17 That the sludge will be properly digested, de-watered and the treated sludge will be used as manure or will be disposed in a scientific manner.
- 18 That adequate measures shall be taken to avoid foul odour during treatment and disposal of sewage and sludge.
- 19 That the unit shall undertake spray of insecticides from time to time to control fly/mosquito growth in the area.
- 20 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.
- 21 That the grant of consent shall not absolve the project proponent from making compliance of other statutory obligations prescribed under any other law or directions of courts or any other legal instrument for the time being in force.
- 22 That fee for 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 unit shall obtain consent to establish after paying fee as applicable.
- 23 That project proponent shall apply for consent to operate 60 days prior to the commissioning of proposed STP.
- 24 That the unit shall ensure that chlorine gas handled with care and provide necessary arrangement to prevent the leakage of the gas.
- 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.

Page 4 of 5

Signature Not Verified

Digitally signed by Ravi Kumar Chandel
 Date: 2024.08.22 15:59:26 IST
 Reason: SelfAttested
 Location:





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

File No : F(Tech)/Dungarpur(Sagwara)/58(1)/2024-2025/655-656

Order No : 2024-2025/Banswara/10161

Dispatch Date: Aug 22 2024 3:59PM

Unit Id : 135051

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[Banswara]

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

1 Master File.

Regional Officer[Banswara]

Page 5 of 5

Signature Not Verified

Digitally signed by Ravi Kumar
Chandel
Date: 2024.08.22 15:59:26 IST
Reason: Self Attested
Location:



Consent to Establish (CTE) for 8 MLD WTP, 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)/7481(1)/2024-2025/357-358

Order No : 2024-2025/Bundi/3769

Dispatch Date: Jul 24 2024 5:34PM

Unit Id : 133670

M/s Water Treatment Plant

Water Treatment Plant (8 MLD) Jhakhmund, Bundi,
 Jhakhmund 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 11/03/2024 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 **Water Treatment Plant** situated / proposed at **Water Treatment Plant 8 MLD Jhakhmund, Bundi Jhakhmund 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 **11/03/2024** to **28/02/2029** 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	8.00 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 Savita
 Date: 2024.07.24 17:34:47 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)/7481(1)/2024-2025/357-358

Order No : 2024-2025/Bundi/3769

Dispatch Date: Jul 24 2024 5:34PM

Unit Id : 133670

- 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
DG Set (160.0 KVA)(160KVA)	ACOUSTIC ENCLOSURE, ADEQUATE STACK HEIGHT		

- 6 That this Consent to Establish is valid for establishment of 8.0 MLD Water Treatment Plant at Khasra no. 1095/655 (area - 15.0 bigha), village - Jhakmund, Tehsil - Talera, District - Bundi as per District Collector, Bundi letter no. 138 dated 02.07.2013.

Page 2 of 5

Signature Not Verified

Digitally signed by Savita
 Date: 2024.07.24 17:34:47 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)/7481(1)/2024-2025/357-358

Order No : 2024-2025/Bundi/3769

Dispatch Date: Jul 24 2024 5:34 PM

Unit Id : 133670

- 7 a. That this Consent to Establish is valid for establishment of Water Treatment Plant of capacity 8.0 MLD for an investment of Rs. 514.00 Lacs under 'Orange' category. Any change in production & its capacity unit has to seek prior Consent to Establish from the State Board.
- b. That the provisions of EIA notification 14/09/2006 by MoEF shall be strictly followed and the unit shall obtain Environmental Clearance if required and the sole responsibility of the same shall lie on the project proponent.
- c. That this consent to Establish is issued to the unit on the basis of documents submitted by the applicant, if any discrepancy is found in the document/facts submitted by the unit then the applicant shall be liable for legal action in accordance with provisions of law.
- d. That no industrial trade effluent i.e. wastewater from water re-circulation system, shall be discharged inside/outside the premises. The entire process water shall be re-circulated with the processes through proposed settling tanks.
- e. That the back-wash water shall be treated through adequately design treatment system and should be completely recycled into the process thus maintaining zero discharge inside and outside the premises.
- f. That the domestic effluent shall be disposed off in soak pits through properly designed septic tanks.

Page 3 of 5

Signature Not Verified

Digitally signed by Savita
Date: 2024.07.24 17:34:47 IST
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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)/7481(1)/2024-2025/357-358

Order No : 2024-2025/Bundi/3769

Dispatch Date: Jul 24 2024 5:34PM

Unit Id : 133670

- 8 a. That rain water harvesting system shall be provided to harness rain water for domestic purposes & that the industry shall not dig new well / tube well without prior permission from the competent authority.
- b. That the industry shall ensure that noise from the unit does not exceed the prescribed noise standards for industrial area i.e. 75 dB(A) Leq during day time and 70 dB(A) Leq during night time to meet the prescribed ambient noise standards. Day time is reckoned in between 6 A.M. and 9 P.M. and nighttime is reckoned between 9 P.M. to 6 A.M.
- c. That the unit shall maintain plantation at least in the 33% of total area within the unit premises.
- d. That the consent is valid subject to fulfilment of all the other statutory requirements in other Laws/Acts/Rules as applicable.
- e. That this consent is not an evidence for ascertaining the title of land.
- f. That this consent is only for environment purpose not be liable for any other purpose.
- g. That this consent is subject to any order or direction from any Court of the competent jurisdiction.
- h. That the unit shall not dispose of waste materials outside the premises to avoid any possible nuisance to nearby inhabitants. Such waste material shall be collected at one place and shall be disposed-off in safe manner.
- i. That any incorrect information submitted in the consent application form or declaration shall make the industry liable for legal action under section 42 of the water and section 38 of the Air Act.
- j. That emission/effluents found to be discharged in excess of the standards prescribed shall be punishable under section 37 of the Air Act and under section 43 of the water Act.
- k. That unit must submit the Public Liability Insurance for chlorine store room & usage and must ensure safety measure for chlorine room (water spray, alarm etc).
- l. That The backwash water of filters shall be treated through a treatment system before disposal and the sludge generated from the same shall be disposed in eco-friendly manner.
- 9 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.

Page 4 of 5

Signature Not Verified

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 Date: 2024.07.24 17:34:47 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

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File No : F(Tech)/Bundi(Bundi)/7481(1)/2024-2025/357-358

Order No : 2024-2025/Bundi/3769

Dispatch Date: Jul 24 2024 5:34PM

Unit Id : 133670

- 10** 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.
- 11** 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 5 of 5

Signature Not Verified

Digitally signed by Savita
Date: 2024.07.24 17:34:47 IST
Reason: Self Attested
Location:



B. Permission of tree cutting for RTO Nallah (Jodhpur Drainage)**कार्यालय जोधपुर विकास प्राधिकरण, जोधपुर**

वेबसाइट: rajodhpurcity.com | फ़ोन: 0291-2617086/2617087 | फ़ैक्स: 0291-2617088
 ईमेल: rajodhpurcity@gmail.com | वेब: rajodhpurcity.com | प्लॉट नं०: 0291/2617086/2617087/2617088

क्रमांक/जेडीए/जोन-06/2024/

दिनांक :- SIGNED DATE

01. श्रीमान् अपर जिला कलक्टर – प्रथम
 02. श्रीमान् अधीक्षण अभियंता, आर.यू.आई.डी.पी. जोधपुर

विषय :- आर.टी.ओ. सारण नगर नाले के अलाइन्मेंट के मध्य आ रहे वृक्षों को हटाने की अनुमति बाबत।

प्रसंग :- श्रीमान् अपर जिला कलक्टर – प्रथम के पत्रांक राजस्व/पेड अनुमति/2024/2322-2323 दिनांक 20/08/2024 एवं अधीक्षण अभियंता आर.यू.आई.डी.पी. जोधपुर के पत्रांक आर.यू.आई.डी.पी./पी.एच.-4/ट्री कटींग/7825-7826 दिनांक 27/08/2024 के क्रम में।

महोदय

उपरोक्त विषयान्तर्गत एवं प्रासंगिक पत्र के संबंध में निवेदन है कि अधीक्षण अभियंता Rajasthan Urban Infrastructure Development Project, Jodhpur के पत्रांक F(RUIDP/PH-IV/ENV/TREE CUTTING/7825-7826 दिनांक 27/08/2024 द्वारा आर.टी.ओ. नाला का निर्माण कार्य मुख्य जोधपुर-जयपुर हाईवे से महादेव नगर तक किया जाना है जिसमें चनेज संख्या 0000 से 2200 तक कुल 76 बाधक वृक्षों को हटाया जाना है।

उक्त संबंध में प्राधिकरण भू.अ. निरीक्षक व आर.यू.आई.डी.पी. के प्रतिनिधी मध्यक व्यास इन्वायर मेंटल सेफ गार्ड सर्पोटिंग स्टाफ व विकास व्यास सर्पोटिंग इंजीनियर सी.एम.एस.सी. द्वितीय की सर्वे रिपोर्ट अनुसार नाले के अलाइन्मेंट में बाधक वृक्षों की सूची निम्नानुसार है :-

ग्राम – पूंजला

क्र.सं.	पेड का नाम	संख्या
1.	नीम (बड़े)	20
2.	नीम (छोटे)	03
3.	नीम (सुखा हुआ)	01
4.	एलेस्टोनिया	01
5.	व्हील पत्र	01
6.	पीपल	01
कुल		27

Signature valid

Digitally signed by **Murash Bareth**
 Designation: Deputy Commissioner
 Date: 2024.08.21 11:30:49 IST
 Reason: Approved



RajKaj Ref No.: 10457786

ग्राम – खोखरिया

क्र.सं.	पेड़ का नाम	संख्या
1.	नीम (बड़े)	21
2.	नीम (छोटे)	04
3.	नीम (सुखा हुआ)	01
4.	पीपल	01
5.	बड़ला	01
6.	तिलपापड़ा	08
7.	एलेस्ट्रोनिया	09
8.	शीशम	01
9.	खेजड़ी	01
10.	खारी बादाम	02
कुल		49

उक्त नाला निर्माण में कुल 76 बाधक वृक्षों को हटाया जाना है, जो कि अधिकांश जोधपुर विकास प्राधिकरण जोन-06 के क्षेत्राधिकार में हैं। उपरोक्त वृक्षों को अपर जिला कलेक्टर-प्रथम जोधपुर के प्रदत्त निर्देशानुसार उक्त वृक्षों को काटने के प्रतिफल में नियमानुसार उचित स्थान पर पांच गुणा नवीन वृक्षों के लगवाये जाने की शर्त के साथ अनुमति दी जाती है।

क्रमांक/जेडीए/जोन-06/2024/

प्रतिलिपी निम्नलिखित को सूचनार्थ प्रेषित है :-

01. श्रीमान् आयुक्त महोदय, जोधपुर विकास प्राधिकरण, जोधपुर।
02. तहसीलदार जोधपुर।

उपायुक्त (जोन-06)
जोधपुर विकास प्राधिकरण
जोधपुर
दिनांक :- SIGNED DATE

उपायुक्त (जोन-06)
जोधपुर विकास प्राधिकरण
जोधपुर

Signature valid

Digitally signed by Mulesh Bareth
Designation: Deputy Commissioner
Date: 2024.09.17 12:30:49 IST
Reason: Approved

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

Project: Rajasthan Secondary Towns Development Sector Project (RSTDSP)				
Sub-project: Wastewater and City Beautification Project				
Contract Number: RSTDIP/BHR/WW/01 & RSTDIP/BHR/CTYBF/01				
Sector: Wastewater and City Beautification Project				
Location visited: SPS-01 (0.81MLD), SPS-03 (1.64 MLD) & SPS-04 (2.23 MLD)				
Contractor: M/s SMCC- AG(JV) and M/s Khandelwal Construction Pvt. Ltd. – M.M Brothers (JV)				
Project Activity: Sump well sinking work, Sump backfilling & Sump channel valve steel binding, CC, PCC, Manhole & IC work, Desludging work, Red stone Laying work.				
Project Activity Stage- Construction Stage				
Site visit has done by- Mr. Vardan Srivastava (Environmental Safeguard Professional), CMSC-01 & Mr. Mani Kumar; Safeguard Support (Environment & Safety), CMSC-01				
Date: 30/04/2024				
Monitoring Items		Compliance		
Compliance marked as Yes/No/Not applicable(NA)/Partially Implemented(PI)	YES	NO	NA	PI
EHS supervisor appointed by contractor and available on site	✓			
Construction site management plan (spoils, safety, schedule, equipment etc.,) prepared	✓			
Traffic management plan prepared	✓			
Dust is under control	✓			
Excavated soil properly placed within minimum space	✓			
The construction area is confined; no traffic/pedestrian entry was observed	✓			
Surplus soil/debris/waste is disposed of without delay	✓			
Construction material (sand/gravel/aggregate) brought to the site as & when required only	✓			
Tarpaulins used to cover sand & other loose material when transported by vehicles	✓			
After unloading , wheels & undercarriage of vehicles cleaned prior to leaving the site		✓		
No chance finds encountered during excavation	✓			
Work is planned in consultation with traffic police	✓			
Work is not being conducted during heavy traffic	✓			
Work at a stretch is completed within a day (excavation, pipe laying & backfilling)	✓			
Pipe trenches are not kept open unduly	✓			
Road is not completely closed; work is conducted on edge; at least one line is kept open	✓			
Road is closed; alternative route provided & public informed, information board provided	✓			
Pedestrian access to houses is not blocked due to pipe laying	✓			
Spaces left in between trenches for access	✓			
Wooden planks/metal sheets provided across trench for pedestrian	✓			
No public/unauthorized entry observed in work site	✓			

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

Submitted By:**Name: Vardan Srivastava****Designation: Environmental Safeguard Professional
CMSC-I, Jaipur Zone**

Report 02: Environmental Site Inspection Checklist, Dungarpur

Project: Rajasthan Secondary Towns Development Sector Project (RSTDSP)				
Sub Project: Water supply & Wastewater Project				
Sector: Water & Wastewater Network				
CONTRACT NUMBER: Lot-01 RSTDSP/-DNG/WS-WW/01				
LOCATION (Name of Sites Visited): Dungarpur Town				
Contractor: M/s EIL				
PROJECT ACTIVITY: STP, Admin Building, TEER, New Colony, Sivaji Nagar, and Pipe Laying Work				
Project Activity Stage- Construction Stage				
Site visit has done by- Mr. Ram Singh Yadav (Environmental Safeguard Support).				
Date of visit: 20.05.2024				
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	✓			
Worker's 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	✓			
Drinking water provided at the site	✓			
Toilet facility provided at the site	✓			
A separate toilet facility is provided for women workers	✓			

Submitted by:**Name: Mr. RamSingh Yadav**

**Designation: Environmental Safeguard Support,
CMSC-II, PIU Dungarpur
Jodhpur Zone**

Report 03: Environmental Site Inspection Checklist, Sagwara

Project: Rajasthan Secondary Towns Development Sector Project (RSTDSP)				
Sub Project: Water supply & Wastewater Project				
Contract Number: Lot-01 RSTDSP/-SGW/WS-WW/02				
Sector: Water & Wastewater Network				
Contractor: M/s EILL				
Location (Name of Sites Visited): Sagwara Town				
Project Activity: STP, and Pipe Laying Work				
Project Activity Stage- Construction Stage				
Site visit has done by- Mr. Ram Singh Yadav (Environmental Safeguard Support).				
DATE: 14.05.2024				
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	✓			
Worker's 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	✓			
Drinking water provided at the site	✓			
Toilet facility provided at the site	✓			
A separate toilet facility is provided for women workers	✓			

Submitted by:**Name: Mr. RamSingh Yadav**

Designation: Environmental Safeguard Support,
CMSC-II, PIU Sagwara
Jodhpur Zone

Report 04: Environmental Site Inspection Checklist, Bhawani Mandi

Project: Rajasthan Secondary Towns Development Sector Project (RSTDSP)				
Sub-project: – Drainage Project				
Contract Number: RSTDSP/BUN-BHM/DR/01				
Sector: Drainage Project				
Contractor: M/s RGI-RBPLI Pvt. Ltd.				
Location visited: New Drain 02,03,04 and Reconstruction Drain				
Project Activity Stage- Construction Stage				
Project Activity: Drain wall shuttering & de-shuttering and casting work in progress.				
Site visit has done by- Mr. Naresh Mahawer, Social Safeguard Support Staff , CMSC-01				
Date : 22-23 May 2024				
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	✓			
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	✓			
Workers using appropriate PPE (boots, gloves, helmets, ear	✓			
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: Naresh Mahawer

**Designation: Social Safeguard Support Staff
CMSC-01, Jaipur Zone**

Report 05: Environmental Site Inspection Checklist, Bundi

Project: Rajasthan Secondary Towns Development Sector Project (RSTDSP)				
Sub-project Name – WW & WS Project				
Sector: Water Supply Project				
Contract Number: RSTDSP/BUN-BHM/DR/01				
Contractor: M/s Khilari Infrastructure Pvt. Ltd.				
Location visited: STP (6.5 MLD), (OHSR 450KL), CWR (1200KL), Kahar Gali, Ghasiyara Mohalla , Luhar Gali				
Project Activity Stage- Construction Stage				
PROJECT ACTIVITY: SBR and MPS Wall shuttering work, OHSR work complete , CWR Teer Top Dome curing and stairs case steel binding work, road restoration work in progress.				
Site visit has done by- Mr. Naresh Mahawer, Social Safeguard Support Staff , CMSC-01				
Date of Visit : 08 July 2024				
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	✓			
No chance finds encountered during excavation	✓			
Work is planned in consultation with traffic police	✓			
Work is not being conducted during heavy traffic	✓			
Work at a stretch is completed within a day (excavation, pipe laying & backfilling)	✓			
Pipe trenches are not kept open unduly	✓			
Road is not completely closed; work is conducted on edge; at least one line is kept open	✓			
Road is closed; alternative route provided & public informed, information board provided	✓			
Pedestrian access to houses is not blocked due to pipe laying	✓			
Spaces left in between trenches for access	✓			

Wooden planks/metal sheets provided across trench for pedestrian	✓			
No public/unauthorized entry observed in work site	✓			
Children safety measures (barricades, security) in place at works in residential areas	✓			
Prior public information provided about the work, schedule and disturbances	✓			
Caution/warning board provided on site	✓			
Guards with red flag provided during work at busy roads	✓			
Workers using appropriate PPE (boots, gloves, helmets, ear muffs)	✓			
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**

Report 06: Environmental Site Inspection Checklist, Ratangarh

Project: Rajasthan Secondary Towns Development Sector Project (RSTDSP)				
Sub Project: Drainage Network and Construction of Drainage Pumping Station				
Contract Number: RSTDSP/NAW-RAT/DR/01				
Sector: Drainage Network				
Contractor: M/s RGI				
Location visited: Ratangarh Town				
Project Activity Stage- Construction Stage				
Project Activity: SWPS and Pipe Laying Work				
Site visit by- Mr. Ugrasen Kumar (Environmental Safeguard Support).				
DATE: 21/08/2024				
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:

Ugrasen Kumar
Environment Safeguard Support Staff
CMSC-II, Ratangarh

Report 07: Environmental Site Inspection Checklist, Jodhpur

Project: Rajasthan Secondary Towns Development Sector Project (RSTDSP)				
Sub-Project: Drainage project				
Sector: Drainage works				
Contract Number: RSTDSP/NAW-JOD /DR/02				
Contractor: SMCC-AG JV				
Location visited: Jodhpur Town				
Project Activity Stage- Construction Stage				
PROJECT ACTIVITY: Drainage Project				
Site visit has done by- Mr. Mayank Kumar Vyas (Environmental Safeguard Support), CMSC - II				
DATE: 19 /09/2024				
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	✓			
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	✓			
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: Mr. MAYANK KUMAR VYAS****Designation: Environmental Safeguard Support,
CMSC-II, Jodhpur 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 ratio of at least 1:3	Being Complied- Tree cutting permission is being taken, where tree cutting is required, compensatory plantations will be done in the ratio of at least 1:3

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 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.	
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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.

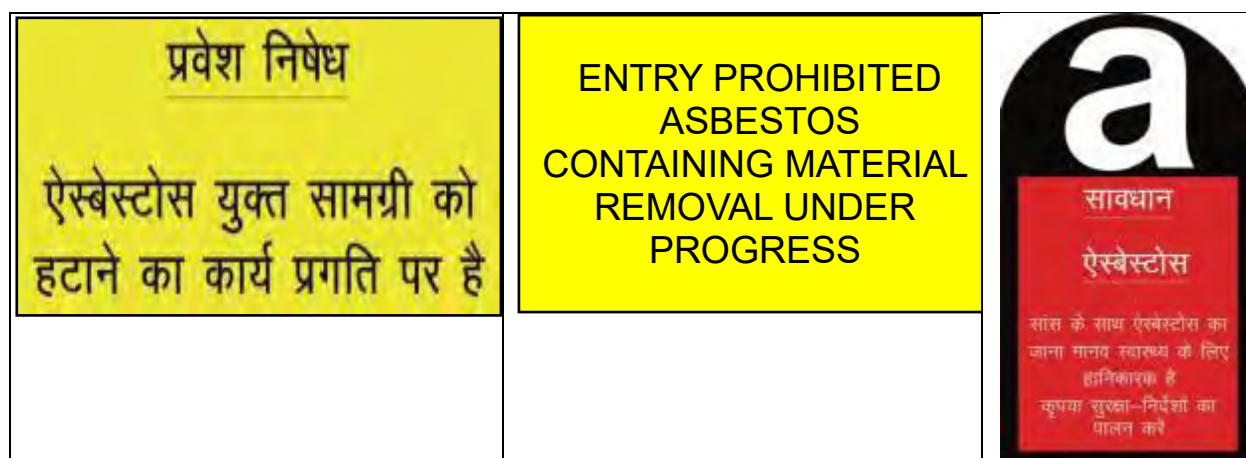


Figure 1: Asbestos warning signage during removal of ACM from site

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**).

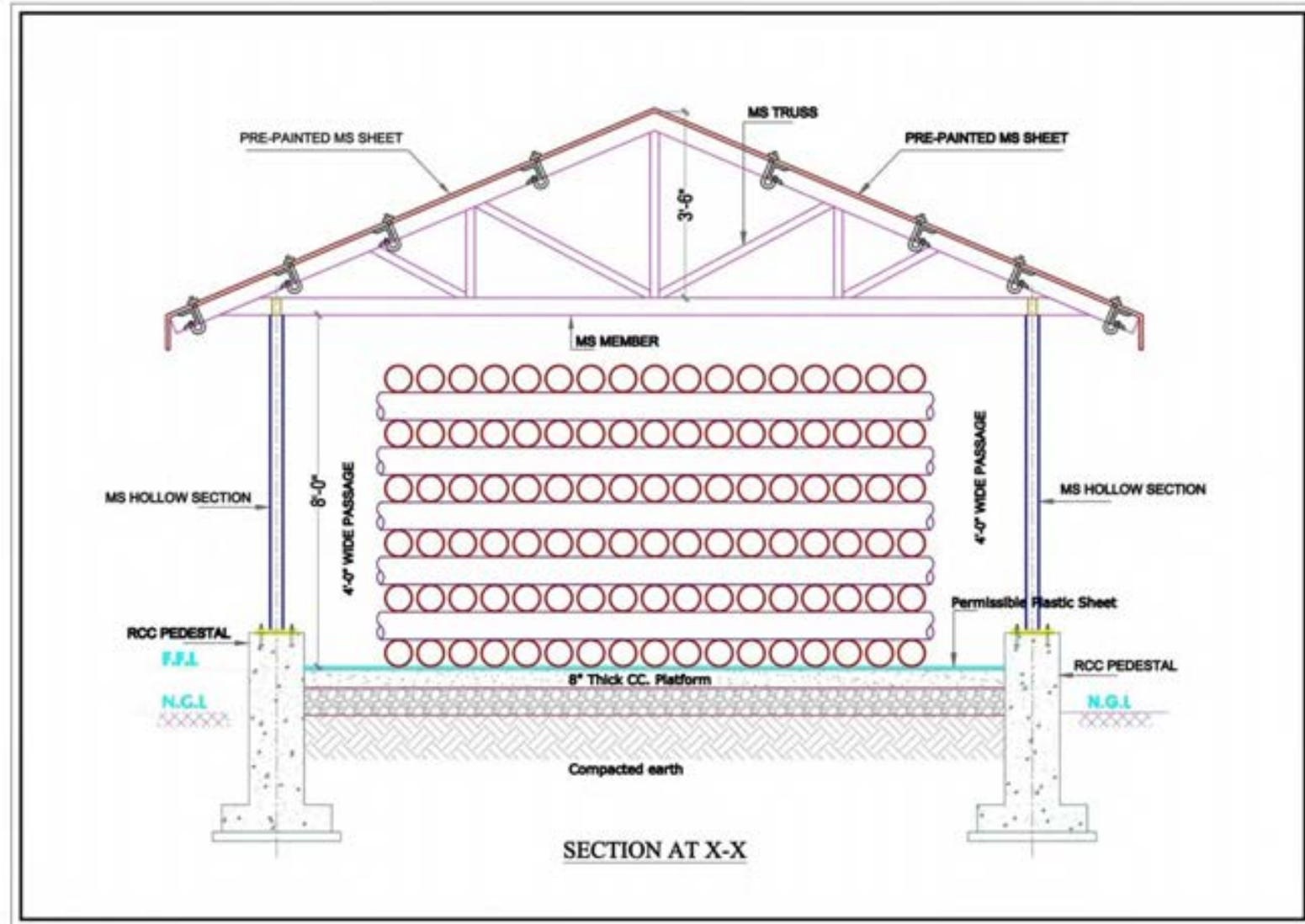


Figure 2: Schematic diagram showing ACM Pipes stacking

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**).

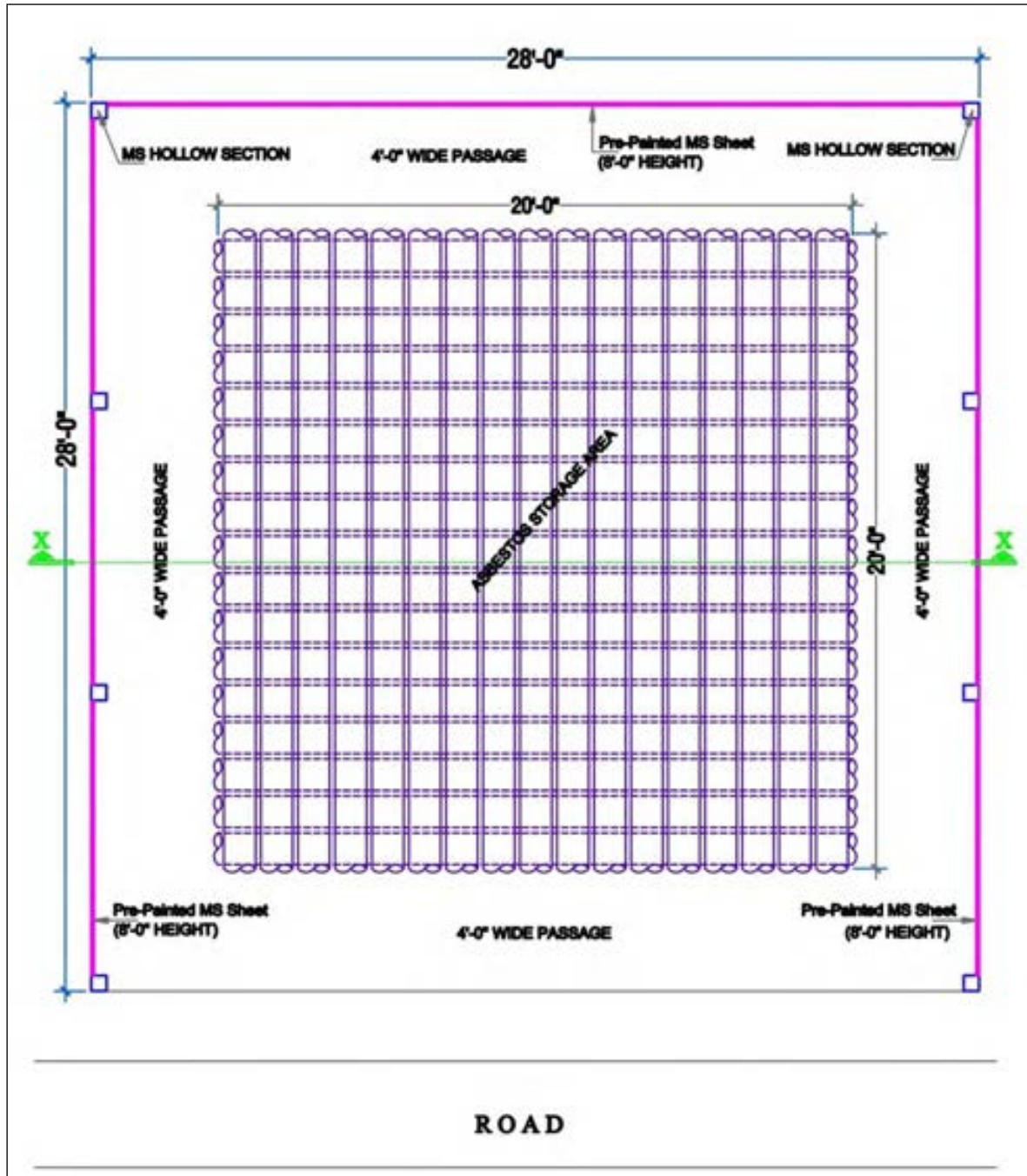


Figure 3: Schematic diagram showing ACM Pipes storage area



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

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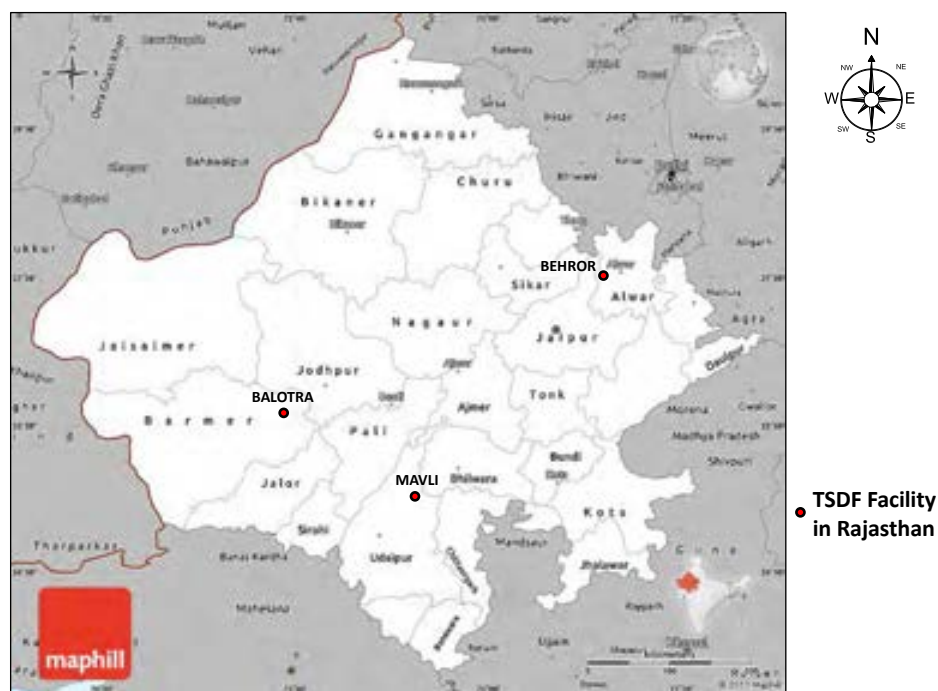


Figure 5: Map of the locations of approved TSDF in Rajasthan.

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

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**.

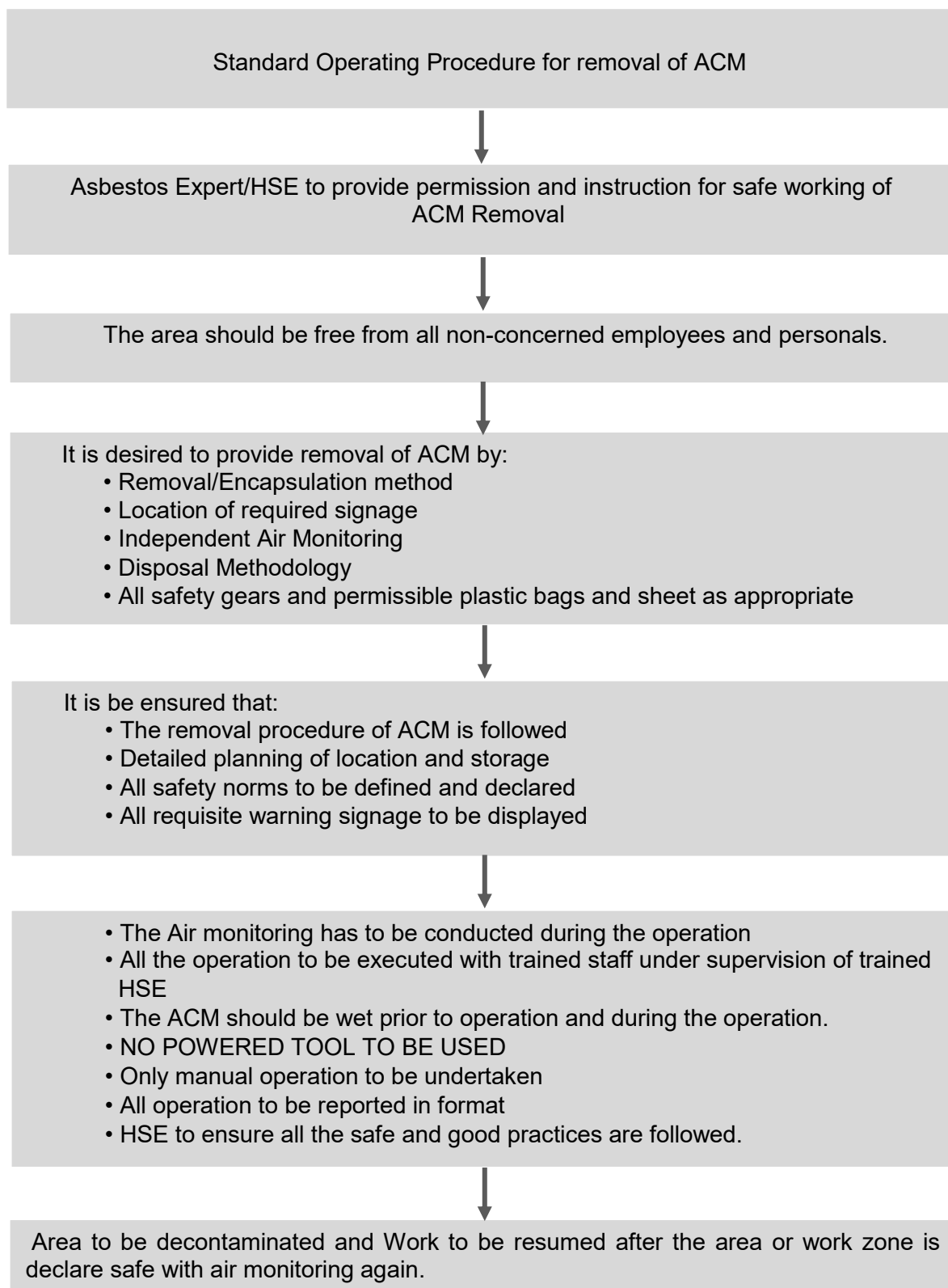


Figure 6 -Standard Operating Procedure Flow Sheet

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.

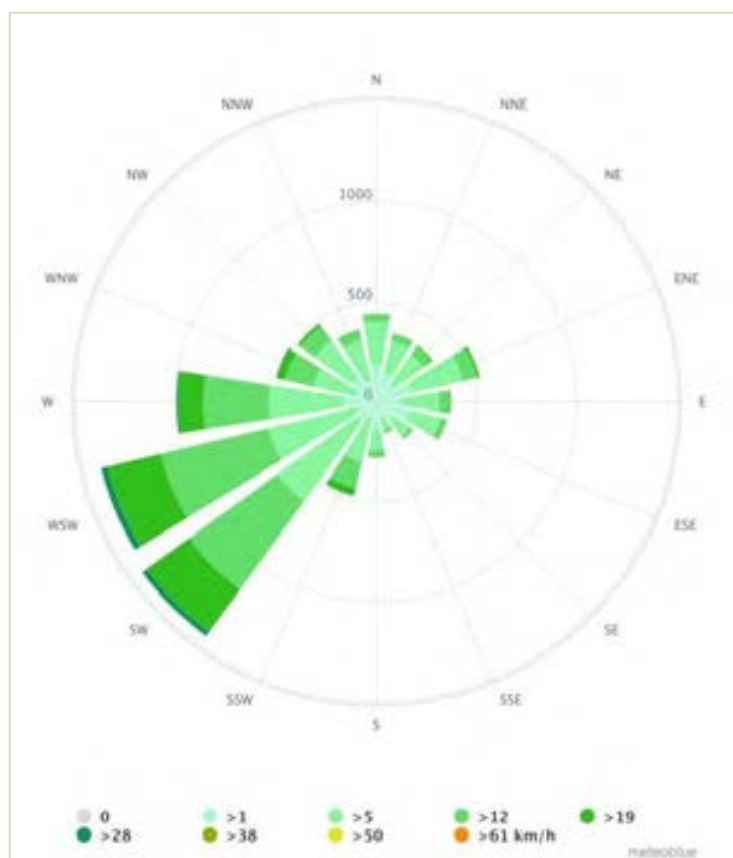


Fig. 7: Pre-dominant Wind Direction in Nathdwara, District-Rajsamand, Rajasthan

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 -

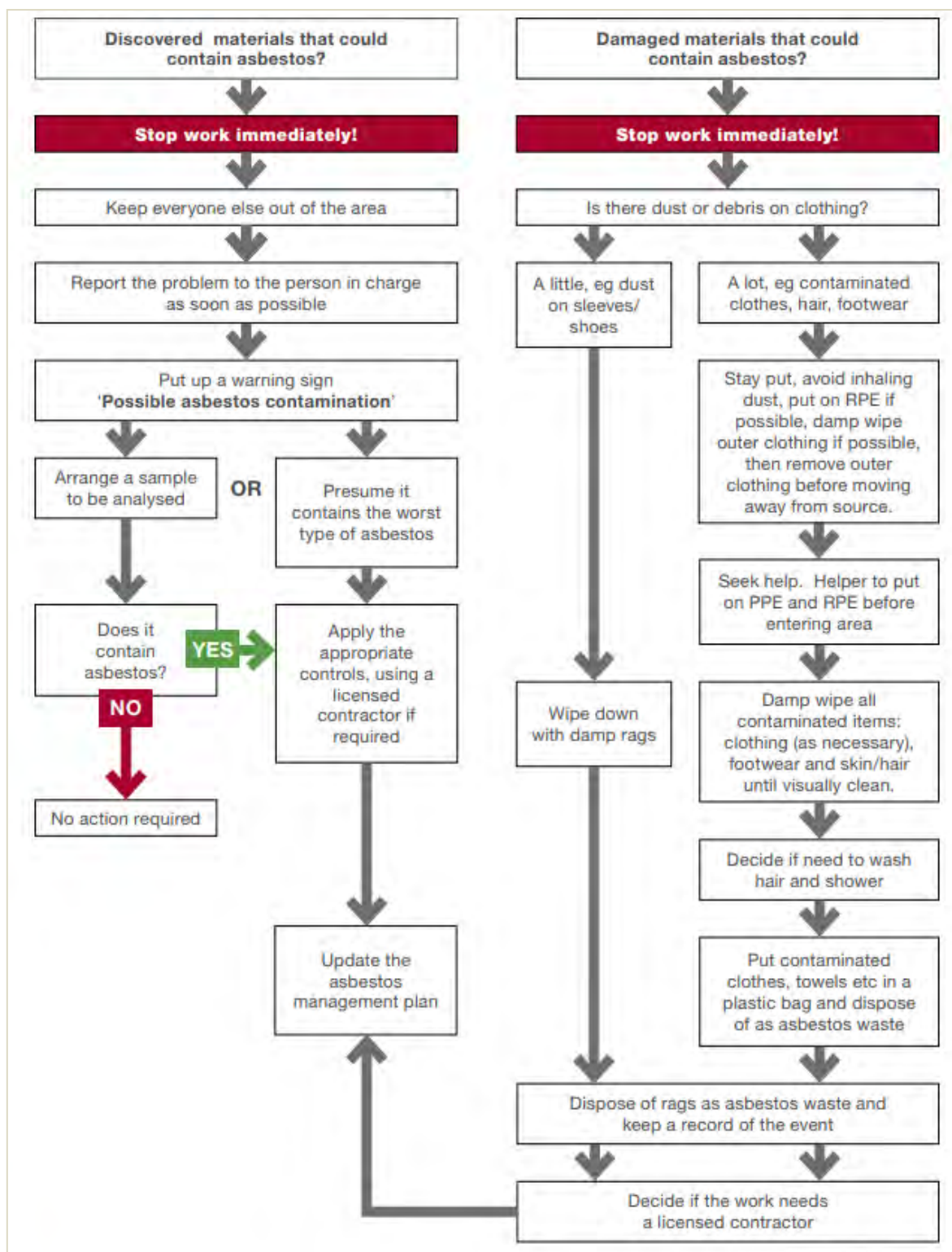


Figure 7: Flow chart of ERP

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>	Height		Weight/ BMI		Blood group		X-Ray		CT Scan		others			
Height																			
Weight/ BMI																			
Blood group																			
X-Ray																			
CT Scan																			
others																			
					Smoker: Tobacco: Alcohol Consumption: Family History: Medication if any: Eye sight: Hearing: 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 पीआइयू
 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 :-

1. श्रीमान अधीक्षण अभियंता जन स्वा० अभि० विभाग वृत्त राजसमन्द
2. 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, multi-tiered frame made of concrete, with a spiral staircase visible on the exterior. It is surrounded by trees and greenery. 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 group of people standing near the concrete structure. The right photo shows a person standing near the structure, which is partially covered with a red net. Both photos show the structure in a natural setting with trees.
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). The structure is a large, cylindrical concrete tank with a spiral staircase on the exterior. A ladder is leaning against the side. 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 group of people standing near a large, cylindrical concrete structure, which is the OHSR. The structure is surrounded by trees and greenery. 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.
Existing CWR near Ganesh Tekri	
 A photograph showing a group of people standing near a large, cylindrical concrete structure, which is the CWR. The structure is surrounded by trees and greenery. 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 a group of people standing near a large, cylindrical concrete structure, which is the CWR. The structure is surrounded by trees and greenery. 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 a large, cylindrical concrete structure, which is the CWR. The structure is surrounded by trees and greenery. 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 a yellow excavator working on a construction site. A person in a safety vest is standing in the foreground. 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





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: Nathdwara, Dist. - Rajsamand, 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	Deepak K. Chaudhary	M	AE	8547047091	
3	Damodar Singh	M	SCE	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.	8769683905	
10	Pratiksha Shrivastava	F	SOT.	9875787573	
11	Ghanshyam Heera	M	Engineer	8619532361	
12	Prakshale Sunil	M	Engineer	8830833780	
13	Manoj Barmar	M	Engineer	8584954990	
14	Sagarika	M	Engineer	8075657116	
15	Anuraj Patil	M	AE/Engineer	9548489360	
16	Deepak Shrivastava	M	Store	7742008670	
17	Dilip Singh	M	Site En.	8699537987	


 AE/PSO


 Asbestos Expert
 PMCB

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

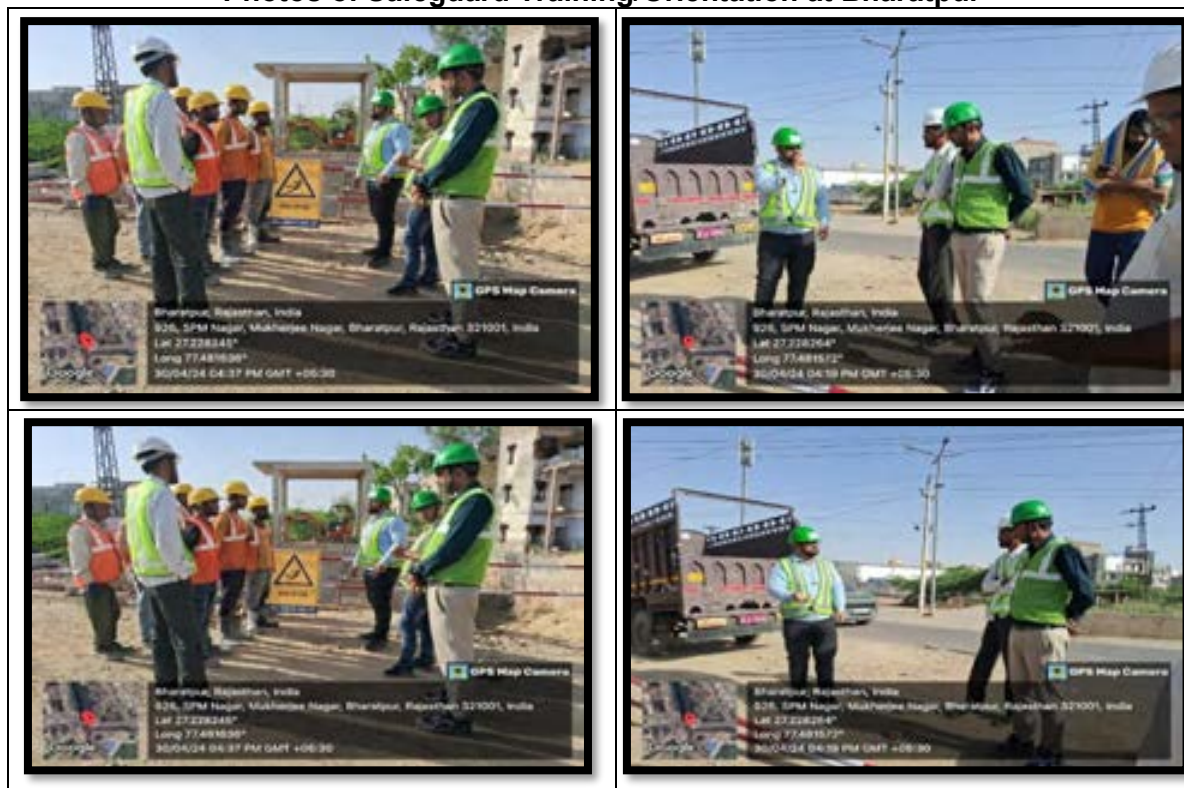
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Defunct
PRE-PIU

Chad
Asbestos Expert
fMCBC

**Appendix-7: Photographs & Attendance sheets of Safeguard Orientations & Trainings
(During April 2024 to September 2024)
(by Environmental Safeguard Professionals/Support of CMSC I & II)**

Photos of Safeguard Training/Orientation at Bharatpur



Photos of Safeguard Training/Orientation at Dungarpur



Safety Training/ Orientation at New Colony



Safety Training/ Orientation at Subhas Nagar & Sivaji Nagar

Attendance Sheet of Safeguard Training/Orientation at Dungarpur

Activity Attendance Sheet(Month May. 2024)

Training On Electrical Safety

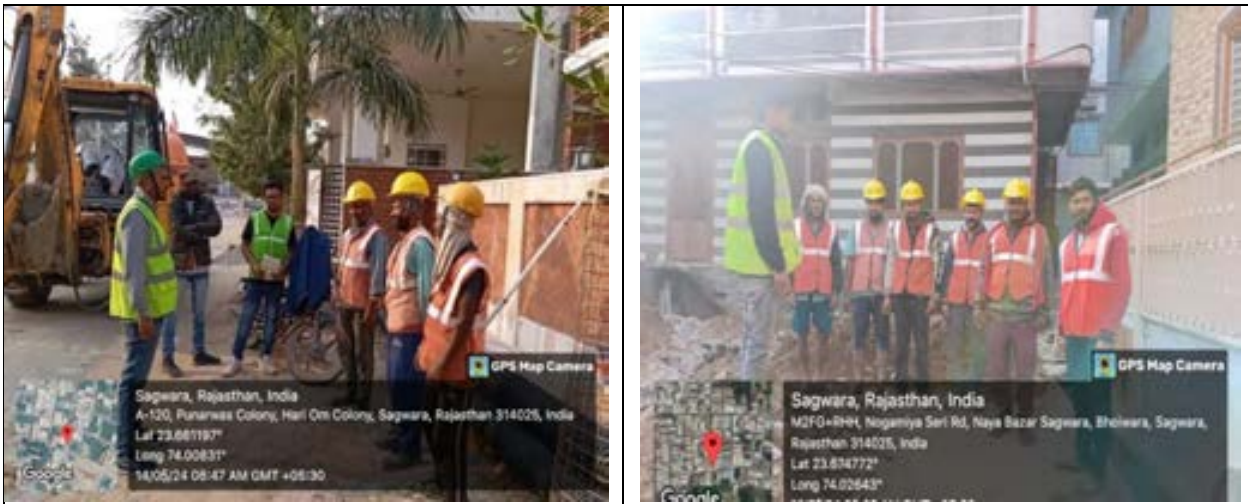
Venue- S+P Organizer- M/S EAGLE INFRA INDIA LTD.

Date & Time- 10/5/24 Trainer Name- Pankaj Saini

Sl. No.	Name	Position	Gender	Signature
1	Hari Singh	Skilled	m	
2	Deva Ram	m	m	देवराज
3	Ritesh Kumar.	m	m	रितेश
4	Jagan Mohan	m	m	जगमोहन
5	Ramni Devi	Unskilled	F	<u>Ramni</u>
6	Komal Devi	m	F	
7	Torji	Skilled	m	तोर्जी
8	Malpura Devi	Unskilled	F	मलपुरा
9	Kanya Kumari	m	F	कन्या
10	Nikesh Kumar.	Skilled	m	
11	Valaji	m	m	<u>Valaji</u>
12	Shamkar Lal	m	m	<u>Shamkar Lal</u>
13	Hinam Kumar	m	m	हिनम
14	Lalita Kumari	Unskilled	F	ललिता
15	Thavan Choud	Skilled	m	

Pankaj Saini

Photos of Safeguard Training/Orientation at Sagwara

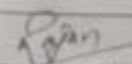
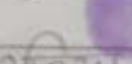
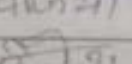
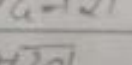
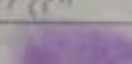
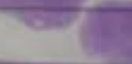
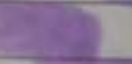
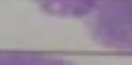
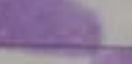
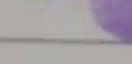


Safety Training/ Orientation at Hariom colony



Safety Training/ Orientation at Subhas Nagar & Sivaji Nagar

Attendance Sheet of Safeguard Training/Orientation at Sagwara

ATTENDANCE SHEET				
AWARENESS & SAFETY TRAINING				
DATE: ¹¹ 10 -05-24				
VENUE: SHILPI MCHALLA PATEL NARA		Organizer-M/S Eagle Infra India Ltd.		
SR NO	NAME	POSITION	GENDER	SIGNATURE
1	Rajan Khan	Safety Officer	M	
2	Sahbaz	Engg.	M	
3	Chandan	Labour	M	
4	Vajiya	"	M	
5	Dinesh	"	M	
6	Bhanat	"	M	
7	Kalpna bai	"	F	
8	Surta ben	"	F	
9	Sardula bai	"	F	
10	Kamli bai	"	F	
11	Greta bai	"	F	
12	Sabita bai	"	F	
13	Pushpa bai	"	F	
14				
15				

Safety Officer


Photos of Safeguard Training/Orientation at Bhawani Mandi

Attendance Sheet of Safeguard Training/Orientation at Bhawani Mandi

IDP
of RUDSICO)

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

Activity: Consultation

Attendance Sheet

Place: BCD-02 JVVNL Office Date: 23/05/2024

Topic/Issues Discussed: Labour Training & Consultation
regarding Labour Camp

S. N.	Name	Gender		Occupation	Mobile No.	Signature
		M	F			
1.	Manu ji	✓		Labourer	—	—
2.	Anshul	✓		— " —	—	—
3.	Lalpal	✓		— " —	91154415906	—
4.	Moshu	✓		— " —	—	मशु
5.	Nashim	✓		— " —	—	नशीम
6.	Avdesh	✓		— " —	8451963397	अवदेश
7.	Manish	✓		— " —	—	—
8.	Aman	✓		— " —	639073062	Aman
9.	Joni	✓		— " —	—	जोनी
10.	Chauhan Kishu	✓		— " —	—	—

Photos of Safeguard Training/Orientation at Bundi**Training for Height Work****Training to use Fire Extinguisher****Training to use proper PPE Kit****Training to use harness hook for safety**

Attendance Sheet of Safeguard Training/Orientation at Bundi



[A Unit of RUDSICO]

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

Activity: Consultation

Attendance Sheet (Water Supply & Waste Water Project)

Place: STP Ramgang Balaji Date: 08/07/2024

Topic/Issues Discussed: Labour Discussion about
site Safety, Health & Hygiene issue

S. N.	Name	Gender		Occupation	Mobile No.	Signature
		M	F			
1.	Mehendra	✓		Labour	9983152208	
2.	Lokeshwar	✓		—	—	
3.	Manish	✓		—	—	
4.	Madan	✓		—	8448019278	
5.	Ramu	✓		—	—	
6.	Dinesh	✓		—	—	
7.						
8.						
9.						
10.						
11.						
12.						

5

Photos of Safeguard Training/Orientation at Hanuman Park, Ratangarh



Attendance Sheet of Safeguard Training/Orientation at Ratangarh

ATTENDANCE SHEET FOR SAFETY TRAINING/ORIENTATION

PROJECT NAME: Dousing Project, Ratangarh Date: 24/08/24

Name of person: Ugrasen Kumar, Environment safeguard Support, RUIDP, Ratangarh
 Orientation/Training Topic: Environment Health and safety Training
 Place/Town: Main Bazaar & Hanuman Park

S.NO	NAME	Contractor	MOBILE NO.	SIGNATURE
01.	Gurind	RH2	8094418008	
02.	ganesha	"	9950131114	
03.	Rankune	"	9352071056	
04.	Danashu	"	9549202105	
05.	chateel	RH2	9504805403	
06.	Mangkumar	"	1367822434	
07.	Mukesh	"	9024374681	
08.	Kishore	"	7240488081	
09.	Tanachand	RH2	8830242846	
10.	Kamal	"	935111765	
11.	Bhagwati Shesha	"	7428390336	
12.	Rajesh	"	9334343376	
	Gopal			

24/08/24

Photos of Safeguard Training/Orientation at Jodhpur**Attendance Sheet of Safeguard Training/Orientation at Jodhpur**

Attendance Sheet		
ProjectName: Rajasthan Secondary Towns Development Sector Project (RSTDSP) – Jodhpur drainage subproject District -Jodhpur, Rajasthan		
S.No	Name	Signature
1	श्रीराम	
2	M. Faruk	
3	M. अरुण	
4	पिनरज	
5	M. शरतजी	
6	मो. बिनाय	
7	मनो	
8	श्रीराम	
9	पिनरज	
10	अनुर	
11	M. काशीम	
12	M. राम	
13	शरत	
14	Salman	
15	सलीम अली	
16	Khalid	
17	पिनरज	
18	रतन	
	कु. हराम	

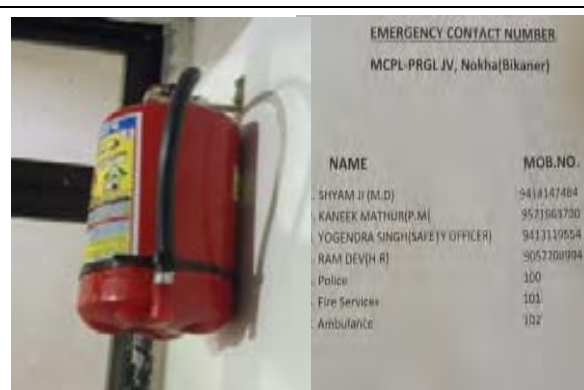
Appendix 8: EHS ACTIVITIES BY DIFFERENT CONTRACTORS DURING REPORTING PERIOD (April 2024 to September 2024)

EHS Activities by contractors at Nokha Town during April 2024 to September 2024

Town: Nokha	
	
Contractor Workmen Training (CWT)	Site Specific Training (SST)
	
Medical Health Checkup of workers at site	Induction training to workers at site
	
First Aid Training to workers at site	Fire extinguisher Training to workers at site
	
PEP talk to workers at site	EHS Induction & COVID Precaution Training



Others Training (OT) to workers at site



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



Good Practise: Barricading at work site



Good Practise: Excavation & trenching at site



Tree Plantation Activity at Site



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 April 2024 to September 2024

Town: Durgapur	
	
Contractor Workmen Training (CWT)	Site Specific Training (SST)
	
PEP talk to workers at site	Training on working at height & Safety
	
Good Practice: Display of Project Board & Emergency No.	Training of material handling to workers at site
	
Tree Plantation activity at work site	Training on importance of Personal Protective Equipments and Safety at site

EHS Activities by contractors at Sagwara town during April 2024 to September 2024**Town: Sagwara****Contractor Workmen Training (CWT)****Site Specific Training****Training on Road safety to workers at site****Induction Training to workers at site****Pep talk to workers at site****Alert Training to workers at site****Tree Plantation Activity at work site****Training on importance of Personal Protective Equipments and Safety to workers at site**

	
Good Practice: Safety barricading at site	Good Practice: Display of Emergency No. at Site
	
Good Practice Emergency No. Display	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 April 2024 to September 2024

Town: Nathdwara	
 Nathdwara, Rajasthan, India T, Nathdwara, Nathdwara, Rajasthan 313301, India Lat 24.92663° Long 73.83161° 01/03/24 10:06 AM GMT +05:30	
Contractor Workmen Training (CWT)	Site Specific Training (SST)
	 Nathdwara, Rajasthan, India T, Nathdwara, Nathdwara, Rajasthan 313301, India Lat 24.92663° Long 73.83161° 01/03/24 10:41 AM GMT +05:30
Excavation Safety Training to workers at site	Induction Training to workers at site
 Nathdwara, Rajasthan, India T, Nathdwara, Nathdwara, Rajasthan 313301, India Lat 24.92663° Long 73.83161° 31/07/24 12:08 PM GMT +05:30	 Bhamra, Rajasthan, India W088+P04, Bhamra, Jashyn Ki Maati, Rajasthan 313301, India Lat 24.91823° Long 73.77084° 25/09/24 10:30 AM GMT +05:30
Electrical Safety Training to workers at site	Work at Height & Safety Training to workers
 Nathdwara, Rajasthan, India W088+P04, National Highway, Lalnag, Nathdwara, Rajasthan 313301, India Lat 24.94345° Long 73.82529° 07/09/24 12:18 PM GMT +05:30	
LAA Safety Training to workers at site	Good Practice: Availability of Flag Man at site



Good Practise: Barricading & sign board at Pipe laying Site



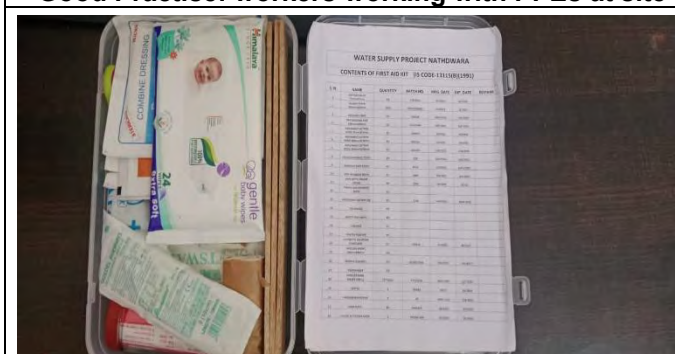
Good Practise: Hard Barricading at work site



Good Practise: workers working with PPEs at site



PPEs Safety Training to workers at site



Good Practise: Availability of First Aid Box



Good Practice: Material Stacking at site



Good practice: Fire Fighter Name Display at site



Good Practise: Emergency No. Display

		
Good Practise: Project Information Board at CWR Ganesh Tekri & WTP site		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
		
Health checkup of workers at site		Site safety rules Display at site
		
Good practice Deep water display at site		Tre Plantation Activity at site

EHS Activities by contractors at Nimbahera town during April 2024 to September 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

 GPS Map Camera Nimbahera, Rajasthan, India JMJF+C44, Atal Nagar, Nimbahera, Rajasthan 312601, India Lat 24.63167° Long 74.672582° 19/09/24 09:23 AM GMT +05:30	 GPS Map Camera Nimbahera, Rajasthan, India JMJF+C44, Atal Nagar, Nimbahera, Rajasthan 312601, India Lat 24.63167° Long 74.672582° 19/09/24 09:23 AM GMT +05:30
Training on (Personal Protective Equipments (PPEs) & Safety to workers at site	Electrical safety to workers at site
 GPS Map Camera Nimbahera, Rajasthan, India JMJF+C44, Atal Nagar, Nimbahera, Rajasthan 312601, India Lat 24.63167° Long 74.672582° 31/07/24 06:23 AM GMT +05:30  GPS Map Camera Nimbahera, Rajasthan, India JMJF+C44, Atal Nagar, Nimbahera, Rajasthan 312601, India Lat 24.63167° Long 74.672582° 31/07/24 06:23 AM GMT +05:30	 GPS Map Camera Mangrol, Rajasthan, India Unnamed Road, Mangrol, Rajasthan 312600, India Lat 24.595451° Long 74.678283° 31/07/24 06:23 AM GMT +05:30
Good Practice: Barricading and site closing	Good Practice: Excavation & Trenching
 GPS Map Camera Nimbahera, Rajasthan, India JMJF+C44, Atal Nagar, Nimbahera, Rajasthan 312601, India Lat 24.63167° Long 74.672582° 02/09/24 11:23 AM GMT +05:30	 GPS Map Camera Nimbahera, Rajasthan, India JMJF+C44, Atal Nagar, Nimbahera, Rajasthan 312601, India Lat 24.63167° Long 74.672582° 02/09/24 11:23 AM GMT +05:30
Good Practice: Availability of Fire extinguisher & Bucket at site	Good Practice: Workers working with PPEs
 GPS Map Camera Nimbahera, Rajasthan, India JMJF+C44, Atal Nagar, Nimbahera, Rajasthan 312601, India Lat 24.63167° Long 74.672582° 02/09/24 11:23 AM GMT +05:30	 GPS Map Camera Nimbahera, Rajasthan, India JMJF+C44, Atal Nagar, Nimbahera, Rajasthan 312601, India Lat 24.63167° Long 74.672582° 07/08/24 04:40 PM GMT +05:30
Fire Safety Training Nimbahera	Tree plantations activity at work site

EHS Activities by contractors at Ratangarh (Drainage) Town during April 2024 to Sept 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
	
ORS distribution to workers at site	Mock Drill on Emergency Evacuation to workers
	
Good Practice: Display of Project information Board & emergency No. at site	Good Practice: Safety Barricading at site

**Good Practice: Safety during Bar cutting works****Tree Plantation activity at site****Good Practise: Availailty of First Aid Box at Site****Good Practise: Display of Cautionary Board at site****Good Practise: Material Stacking at Site****Good Practise: Display of Emergency no. at site****Good Practise: Drincking Water Facility at site****Good Practise:Availibility of Fire Extinguisher at site**

EHS Activities by contractors at Jodhpur (Drainage) Town during April 2024 to Sept 2024**Town: Jodhpur (Drainage works)****Contractor workmen training (CWT)****Site Specific Training (SST)****Induction Training to workers at site****Training on (Personal Protective Equipments (PPEs) & Safety to workers at site****Good Practice: Hard barricading at site****Tree Plantation Activity at Site****Good Practice: Workers working with PPEs****Good Practice: First Aid Facility at site**

EHS Activities by contractors at Jodhpur (Wastewater) Town during April 2024 to Sept 2024

Town: Jodhpur (Wastewater Works)	
	
Site Specific Training (SST) to workers at site	Training on Importance of PPE and safety during work at site
	
Good Practice: Close Barricading	Good Practice workers working with PPEs
	
Good Practice: Electrical Safety	Training on Work at Height safety
	
Tree Plantation at Pal Village	Training on Fire Extinguisher

EHS Activities by contractors at Barmer Town during April 2024 to September 2024

Town: Barmer	
	
Training on Importance of PPE and safety during work at site	Site Specific Training to workers at site
	
Good Practice: Safety Barricading at site	Good Practice Barricading at site
	
Site Specific Sign Board display at site	Good Practice: Drinking Water Facility At Site
	
Good Practice: Display of PPE's Poster at site	Tree Plantation Activity at site

EHS Activities by contractors at Balotra Town during April 2024 to September 2024

Town: Balotra	
	
Contractor Workmen Training (CWT)	Site Specific Training (SST)
	
Good Practice: Safety Barricading	Good Practice: Availability of first aid kit at site
	
Good Practice - Fire extinguisher at site	Display of Site Specific Sign Board
	
Drinking water facility for workmen on the site	Training on Material Handling to workers at site

EHS Activities at Jaisalmer City Beautification Sub Project Town during April 2024 to September 2024

Town: Jaisalmer (City Beautification works)	
 GPS Map Camera Jaisalmer, Rajasthan, India Jalpa, Barmer Rd, Postal Colony, Jaisalmer, Rajasthan 345001, India Lat 26.910036° Long 70.821429° 12/06/24 09:13 AM GMT +05:30	 GPS Map Camera Jaisalmer, Rajasthan, India Jalpa, Barmer Rd, Postal Colony, Jaisalmer, Rajasthan 345001, India Lat 26.910036° Long 70.821429° 12/06/24 09:13 AM GMT +05:30
Training on Importance of PPE and safety during work at site	Contractor workmen training CWT at site
 GPS Map Camera Jaisalmer, Rajasthan, India Jalpa, Barmer Rd, Postal Colony, Jaisalmer, Rajasthan 345001, India Lat 26.909726° Long 70.821311° 23/06/24 02:34 PM GMT +05:30	
Good Practice – Safety Barricading at site	Tree Plantation Activity at site
	 GPS Map Camera Jaisalmer, Rajasthan, India Jalpa, Barmer Rd, Postal Colony, Jaisalmer, Rajasthan 345001, India Lat 26.907932° Long 70.821668° 17/06/24 09:23 AM GMT +05:30
Health & safety instruction training	Good Practice: Workers working with PPEs
	 PERSONAL PROTECTIVE EQUIPMENTS सुरक्षा हेलमेट कान के उपकरण शरीर आवरण सुरक्षा चश्मे हाथों के दस्ताने सुरक्षा जुते हमेशा सुरक्षा उपकरणों का उपयोग करे
Good Practice PPEs	Good Practice: Display of Poster on PPEs

EHS Activities at Sagwara City Beautification Sub Project Town during April 2024 to September 2024

Town :-Sagwara (City Beautification works)	
 Contractor Workmen Training (CWT)	 Site specific training
 Induction Training to workers at site	 Training on Mock Drill to workers at site
 First Aid and Safety Training to workers at site	 site Safety training to workers at site
 PPE Safety training to workers at site	 Training of height of work to workers at site

EHS Activities at Bharatpur (Wastewater) Sub Project Town during April 2024 to Sept. 2024

Town: Bharatpur (Wastewater Sub Project) Town	
 Excavation Safety Training	 Road Safety Training
 EHS Induction & COVID awareness Training	 Good Practice: Workers working with PPEs
 Good Practice: Barricading	 Good Practice: Availability of first aid kit at site
 Tree Plantation Activity	 Good Practice: Housekeeping

EHS Activities at Bundi (Water Supply & Wastewater) Sub Project Town during April 2024 to Sept. 2024

Town: Bundi (Water Supply & Wastewater works)



Safety PPE's Training



Mock Drill Training



Training on Fire -Fighting Extinguisher



Training on Work at Height Safety



**Training on Importance of PPEs & safety during
work at site**



Hot work training



Celebrated World Environment day by Tree Plantation Activity at site

EHS Activities at Bundi & Nawalgarh (Drainage works) Sub project towns during April 2024 to Sept. 2024

Town: Bundi (Drainage works)	
	
Training on Housekeeping to workers at site	Celebrated World Environmental Day by Tree Plantation activity at site
	
Training on Importance of PPE's and safety at site	Tool Box Training (TBT) to workers at site
Town: Nawalgarh (Drainage works)	
	
Tool Box Training (TBT) to workers at site	Training on Manual handling & safety at site

EHS Activities at Bhawani Mandi (Drainage works) & Bharatpur (City Beautification) Sub project towns during April 2024 to Sept. 2024

Town: Bhawani Mandi (Drainage works)	
	
Training on Housekeeping to workers at site	Celebrated World Environmental Day by Tree Plantation activity at site
	
Training on Importance of PPE's and safety at site	Tool Box Training (TBT) to workers at site
Town: Bharatpur (City Beautification works)	
	
Training on Importance of PPE's and safety at site	Tree Plantation activity at at Nehru park

Appendix 9: SAFEGUARD TRAININGS CONDUCTED BY CONTRACTORS (April 2024 to September 2024)

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
Town: Nokha					
1.	Contractor Workmen Training	02-04-2024	charkara STP	Yogendra	25
2.	Contractor Workmen Training	10-04-2024	Raisar	Yogendra	06
3.	Other-Internal Training	22-04-2024	Bagdi	Yogendra	05
4.	Contractor Workmen Training	29-04-2024	Aen Campus, Ranarao	Yogendra	13
5.	EHS alert Training	17-04-2024	Charkara, Bagdi	Yogendra	30
6.	Contractor Workmen Training	03-05-2024	Charkara STP	Yogendra	25
7.	Contractor Workmen Training	11-05-2024	Raisar, Teja Mandir	Yogendra	11
8.	other-Internal Training	21-05-2024	Bagdi, Zone-4	Yogendra	10
9.	Contractor Workmen Training	27-05-2024	Aen Campus, Teja mandir	Yogendra	13
10.	EHS alert Training	20-05-2024	Charkara, Bagdi	Yogendra	30
11.	Contractor Workmen Training	04-06-2024	Charkara STP	Yogendra	22
12.	Contractor Workmen Training	10-06-2024	Raisar, Teja Mandir	Yogendra	12
13.	other-Internal Training	19-06-2024	Bagdi, Zone-3	Yogendra	10
14.	Contractor Workmen Training	24-06-2024	Aen Campus, Teja mandir	Yogendra	15
15.	EHS alert Training	20-06-2024	Charkara, Bagdi	Yogendra	23
16.	Contractor Workmen Training	03-07-2024	Charkara STP	Yogendra	25
17.	Contractor Workmen Training	12-07-2024	Bagdi, Teja Mandir	Yogendra	12
18.	other-Internal Training	20-07-2024	Teja Mandir, Zone-3	Yogendra	12
19.	Contractor Workmen Training	25-07-2024	AEn Campus, Teja mandir	Yogendra	15
20.	EHS alert Training	18-07-2024	Charkara, Bagdi	Yogendra	32
21.	Contractor Workmen Training	02-08-2024	Charkara STP	Yogendra	30
22.	Contractor Workmen Training	13-08-2024	Bagdi, TejaMandir	Yogendra	10
23.	other-Internal	21-08-2024	TejaMandir, Zone-3	Yogendra	12
24.	Contractor Workmen Training	26-08-2024	Aen Campus, Tejamandir	Yogendra	12
25.	EHS alert Training	19-08-2024	Charkara, Bagdi	Yogendra	32
26.	Contractor Workmen Training	03-09-2024	Charkara STP	Yogendra	30
27.	Contractor Workmen Training	16-09-2024	Bagdi, Teja Mandir	Yogendra	10
28.	other-Internal Training	19-09-2024	Teja Mandir, Zone-3	Yogendra	11
29.	Contractor Workmen Training	24-09-2024	Aen Campus, Teja mandir	Yogendra	12
30.	EHS alert Training	21-09-2024	Charkara, Bagdi	Yogendra	28
Town: Dungarpur					
1.	PPE's safety Training	04-04-24	Chamanpura	Pankaj	30
2.	Road Safety Training	04-04-24	Garib Nawaz colony	Pankaj	20
3.	Induction training	04-04-24	New Colony	Pankaj	12
4.	Training of Material Handling	04-04-24	Gandhi Ashram	Pankaj	8
5.	First Aid Training	06-04-24	Material Camp	Pankaj	5
6.	Alert Training	06-04-24	Material Camp	Pankaj	5
7.	Site Specific Training	06-04-24	New Colony	Pankaj	8

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
8.	Mock Drill Training	06-04-24	Material Camp	Pankaj	15
9.	PPE's safety Training	20-05-24	Chamanpura	Pankaj	40
10.	Road Safety Training	21-05-24	Garib Nawaz colony	Pankaj	25
11.	Induction training	21-05-24	New Colony	Pankaj	10
12.	Training of Material Handling	21-05-24	Gandhi Ashram	Pankaj	8
13.	First Aid Training	10-05-24	Material Camp	Pankaj	5
14.	Alert Training	15-05-24	Material Camp	Pankaj	5
15.	Site Specific Training	15-05-24	New Colony	Pankaj	8
16.	Mock Drill Training	15-05-24	Material Camp	Pankaj	12
17.	PPE's safety Training	20-06-24	Chamanpura	Pankaj	40
18.	Road Safety Training	21-06-24	Garib Nawaz colony	Pankaj	25
19.	Induction training	21-06-24	New Colony	Pankaj	10
20.	Training of Material Handling	21-06-24	Gandhi Ashram	Pankaj	8
21.	First Aid Training	10-06-24	Material Camp	Pankaj	5
22.	Alert Training	15-06-24	Material Camp	Pankaj	5
23.	Site Specific Training	15-06-24	New Colony	Pankaj	8
24.	Mock Drill Training	15-06-24	Material Camp	Pankaj	12
25.	PPE's safety Training	20-06-24	Chamanpura	Pankaj	40
26.	Road Safety Training	21-06-24	Garib Nawaz colony	Pankaj	25
27.	Induction training	21-06-24	New Colony	Pankaj	10
28.	Training of Material Handling	21-06-24	Gandhi Ashram	Pankaj	8
29.	First Aid Training	10-06-24	Material Camp	Pankaj	5
30.	Alert Training	15-06-24	Material Camp	Pankaj	5
31.	Site Specific Training	15-06-24	New Colony	Pankaj	8
32.	Mock Drill Training	15-06-24	Material Camp	Pankaj	12
33.	PPE 's safety Training	29-08-24	STP	Pankaj	25
34.	Road Safety Training	29-08-24	STP	Pankaj	15
35.	Induction training	29-08-24	STP	Pankaj	15
36.	Training of Material Handling	29-08-24	STP	Pankaj	5
37.	First Aid Training	29-08-24	STP	Pankaj	5
38.	Alert Training	29-8-24	STP	Pankaj	5
39.	Site Specific Training	29-08-24	STP	Pankaj	10
40.	Mock Drill Training	29-08-24	STP	Pankaj	20
41.	Labour Meeting	29-08-24	STP	Pankaj	10
42.	PPE 's safety Training	22-09-24	STP (Sati)	Pankaj	20
43.	Road Safety Training	22-09-24	STP (Sati)	Pankaj	21
44.	Induction training	22-09-24	STP (Sati)	Pankaj	10
45.	Training of Material Handling	22-09-24	STP (Sati)	Pankaj	8
46.	First Aid Training	22-09-24	STP (Sati)	Pankaj	10
47.	Alert Training	22-09-24	STP (Sati)	Pankaj	15
48.	Site Specific Training	22-09-24	STP (Sati)	Pankaj	10
49.	Mock Drill Training	22-09-24	STP (Sati)	Pankaj	15
50.	Labour Meeting	22-09-24	STP (Sati)	Pankaj	10
Town: Sagwara					
1.	PPE 's safety Training	13/04/2024	Shilpy Mohalla	MD Rajan	12
2.	Road safety Training`	14/04/2024	Hari om colony	MD Rajan	10

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
3.	Covid-19 Safety training	13/04/2024	Shilpy Mohalla	MD Rajan	11
4.	Electrical safety training	07-04-24	STP	MD Rajan	5
5.	Awareness and safety training	15-04-24	STP	MD Rajan	10
6.	Mock Drill Training	10-04-24	A, Block	MD Rajan	7
7.	Induction Training	07/04/24	D, Block	MD Rajan	12
8.	Site Specific Training	14/04/24	Punarwas Colony	MD Rajan	10
9.	PPE 's safety Training	13/05/2024	Hari Om colony	MD Rajan	12
10.	Road safety Training`	21/05/2024	Hari om colony	MD Rajan	16
11.	Covid-19 Safety training	12/05/2024	Shilpy Mohalla	MD Rajan	18
12.	Electrical safety training	07-05-24	STP	MD Rajan	7
13.	Awareness and safety training	20-05-24	STP	MD Rajan	15
14.	Mock Drill Training	22-05-24	Hari om colony	MD Rajan	8
15.	Induction Training	10/05/24	Hari om colony	MD Rajan	20
16.	Site Specific Training	14/05/24	Punarwas Colony	MD Rajan	20
17.	PPE 's safety Training	28/06/2024	Hari Om colony	MD Rajan	10
18.	Road safety Training`	25/06/2024	Punarwas Colony	MD Rajan	8
19.	Covid-19 Safety training	15/06/2024	Punarwas Colony	MD Rajan	15
20.	Electrical safety training	15-06-24	STP	MD Rajan	7
21.	Awareness & safety training	17-06-24	Punarwas colony	MD Rajan	15
22.	Mock Drill Training	20-06-24	Hari om colony	MD Rajan	10
23.	Induction Training	4/06/24	Hari om colony	MD Rajan	15
24.	Site Specific Training	9/06/24	Punarwas Colony	MD Rajan	15
25.	PPE's safety Training	28/06/2024	Hari Om colony	MD Rajan	10
26.	Road safety Training`	25/06/2024	Punarwas Colony	MD Rajan	8
27.	Covid-19Safetytraining	15/06/2024	Punarwas Colony	MD Rajan	15
28.	Electrical safety training	15-06-24	STP	MD Rajan	7
29.	Awareness & safety training	17-06-24	Punarwas colony	MD Rajan	15
30.	Mock Drill Training	20-06-24	Hari om colony	MD Rajan	10
31.	Induction Training	4/06/24	Hari om colony	MD Rajan	15
32.	Site Specific Training	9/06/24	Punarwas Colony	MD Rajan	15
33.	PPE's safety Training	12/08/2024	Bhoiwara	MD Rajan	15
34.	Road safety Training	14/08/2024	Bhoiwara	MD Rajan	12
35.	Covid-19Safetytraining	16/08/2024	Bhoiwara	MD Rajan	14
36.	Electrical safety training	16-08-24	Bhoiwara	MD Rajan	4
37.	Awareness & safety training	10-08-24	Bhoiwara	MD Rajan	10
38.	Mock Drill Training	10-08-24	Bhoiwara	MD Rajan	10
39.	Induction Training	11/08/24	Bhoiwara	MD Rajan	15
40.	Site Specific Training	11/08/24	Bhoiwara	MD Rajan	10
41.	PPE 's safety Training	12/09/2024	Bhoiwara	MD Rajan	15
42.	Contractor workmen training	15/09/24	Shilpi Mohalla	MD Rajan	10
43.	Road safety Training`	17/09/2024	Shilpi Mohalla	MD Rajan	12
44.	Alert Training	13/09/24	Saltwara	MD Rajan	10
45.	Electrical safety training	15-09-24	Kalarwas	MD Rajan	4
46.	First Aid Training	14/09/24	Saltwara	MD Rajan	5
47.	Mock Drill Training	10-09-24	Bhoiwara	MD Rajan	15

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
48.	Induction Training	12/09/24	Shilpi Mohalla	MD Rajan	12
49.	Site Specific Training	17/09/24	Kalarwas	MD Rajan	10
50.	Road Safety Training	17/09/24	Kalarwas	MD Rajan	10
51.	Glucose Distribution Training	16/09/24	Shilpi Mohalla	MD Rajan	12
Town: Nathdwara					
1.	Snake Bite Safety Training	03/04/2024	Nathuwas	Ashutosh	10
2.	Work at Height Safety Training	12/04/2024	WTP	Ashutosh	30
3.	Scaffolding Training	20/04/2024	WTP	Ashutosh	35
4.	Use of Ladder and Access and Exit Training	29/04/2024	WTP	Ashutosh	30
5.	Housekeeping Safety Training	04/05/2024	Sukhadiya Nagar	Ashutosh	08
6.	Work at Height Safety Training	10/05/2024	1500 KL Nathuwas	Ashutosh	12
7.	PPE,s Training	18/05/2024	WTP	Ashutosh	35
8.	PPE, s Safety Training	05/06/2024	Bharampuri Nathuwas	Ashutosh	08
9.	Work at Height Safety Training	12/06/2024	WTP	Ashutosh	30
10.	Snake Bite safety Training	19/06/2024	1500KL Nathuwas	Ashutosh	15
11.	Excavation & Barricades & Safety Training	25/06/2024	Shukhadiya Nagar	Ashutosh	06
12.	Electrical Safety Training	29/06/2024	WTP	Ashutosh	25
13.	PPE, s Safety Training	01/07/2024	1500 KL OSHR	Ashutosh	20
14.	Work at Height Safety Training	10/07/2024	300KL OSHR	Ashutosh	10
15.	Snake Bite safety Training	17/07/2024	WTP	Ashutosh	40
16.	Excavation & Barricades & Safety Training	24/07/2024	WTP	Ashutosh	30
17.	Road Safety	31/07/2024	Nathuwas	Ashutosh	10
18.	Gas cutting Welding	04/08/2024	WTP	Ashutosh	20
19.	Work at Height Safety Training	12/08/2024	Nathuwas	Ashutosh	10
20.	Electrical safety Training	16/08/2024	WTP	Ashutosh	40
21.	Machinery Heat Safety Training	24/08/2024	WTP	Ashutosh	30
22.	PPE, s Safety Training	06/09/2024	WTP	Ashutosh	30
23.	Work at Height Safety Training	10/09/2024	Nathuwas	Ashutosh	15
24.	Electrical safety Training	24/09/2024	300KL OSHR Bhandari Bawri	Ashutosh	10
25.	Material Lifting Safety Training	29/09/2024	WTP	Ashutosh	35
Town: Nimbahera					
1.	PPE 's safety Training	03/04/2024	WTP	Dev Kishan	20
2.	PPE 's safety Training	28/04/2024	WTP	Dev Kishan	20



Environmental Monitoring Report

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Semestral Report: April 2024 – September 2024
December 2024

India: Rajasthan Secondary Towns Development Sector Project-Additional Financing

Part 3 of 3: Appendix 9 (continued) and Appendices 10 - 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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S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
3.	Road safety Training	24/04/2024	ZONE -10	Dev Kishan	06
4.	Covid-19 Safety training	03/04/2024	WTP	Dev Kishan	20
5.	PPE 's safety Training	05/05/2024	WTP	Dev Kishan	40
6.	PPE 's safety Training	18/05/2024	WTP	Dev Kishan	35
7.	Road safety Training	14/05/2024	ZONE -9.11	Dev Kishan	30
8.	Covid-19 Safety training	20/05/2024	WTP	Dev Kishan	40
9.	PPE 's safety Training	04/06/2024	WTP	Dev Kishan	40
10.	PPE 's safety Training	21/06/2024	Intake well	Dev Kishan	35
11.	Road safety Training	11/06/2024	ZONE -3	Dev Kishan	3
12.	Covid-19 Safety training	04/06/2024	WTP	Dev Kishan	40
13.	PPE 's safety Training	02/07/2024	Rising Pipe Line Site	Dev Kishan	10
14.	PPE 's safety Training	11/07/2024	WTP	Dev Kishan	20
15.	Road safety Training	23/07/2024	Rising Pipe line Site	Dev Kishan	3
16.	Covid-19 Safety training	28/07/2024	WTP	Dev Kishan	10
17.	PPE 's safety Training	7/08/2024	Rising Pipe Line Site	Dev Kishan	40
18.	PPE 's safety Training	1/08/2024	WTP	Dev Kishan	3
19.	Road safety Training	3/08/2024	Rising Pipe line Site	Dev Kishan	3
20.	Covid-19 Safety training	8/08/2024	WTP	Dev Kishan	10
21.	PPE 's safety Training	02/09/2024	All Site	Dev Kishan	40
22.	PPE 's safety Training	10/09/2024	Rising Line	Dev Kishan	3
23.	Road safety Training	06/09/2024	Rising line	Dev Kishan	3
24.	Covid-19 Safety training	19/09/2024	WTP	Dev Kishan	10
Town: Ratangarh					
1.	PPE Safety Training	April 2024	At Site	A.Abraham	30
2.	EHS Alert	April 2024	At Site	A.Abraham	30
3.	Road Safety	April 2024	At Site	A.Abraham	10
4.	First Aid Training	April 2024	At Site	A.Abraham	4
5.	Fire Extinguisher Training	April 2024	At Site	A.Abraham	10
6.	PPE Safety Training	May 2024	At Site	A.Abraham	25
7.	EHS Alert	May 2024	At Site	A.Abraham	20
8.	Road safety	May 2024	At Site	A.Abraham	7
9.	First Aid Training	May 2024	At Site	A.Abraham	10
10.	PPE Safety Training	June 2024	AT Site	A.Abraham	14
11.	EHS Alert	June 2024	At Site	A.Abraham	10
12.	Road safety	June 2024	At Site	A.Abraham	5
13.	Road safety	June 2024	At Site	A.Abraham	6
14.	PPE Safety Training	July 2024	AT Site	A.Abraham	7
15.	EHS Alert	July 2024	At Site	A.Abraham	7
16.	Road safety	July 2024	At Site	A.Abraham	4
17.	First Aid Training	July 2024	At Site	A.Abraham	7
18.	PPE Safety Training	Aug 2024	AT Site	A.Abraham	10
19.	EHS Alert	Aug 2024	At Site	A.Abraham	10
20.	Road safety	Aug 2024	At Site	A.Abraham	4
21.	First Aid Training	Aug 2024	At Site	A.Abraham	12
22.	PPE Safety Training	Sept 2024	AT Site	A.Abraham	8
23.	EHS Alert	Sept 2024	At Site	A.Abraham	10

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
24.	Road safety	Sept 2024	At Site	A.Abraham	3
25.	First Aid Training	Sept 2024	At Site	A.Abraham	5
Town: Jodhpur (Wastewater Works)					
1.	Induction Training	25/05/2024	Nandri	Hanuman	12
2.	Glucose Distribution Activity	19/05/2024	Gujraws	Hanuman	07
3.	Electrical safety Training	20/05/2024	Central academy	Hanuman	12
4.	EHS alert	02/05/2024	Mandor	Hanuman	11
5.	Road safety	02/05/2024	Balsamand	Hanuman	10
6.	Induction Training	25/07/2024	nandri	Hanuman	12
7.	Glucose Distribution Activity	19/07/2024	Gujraws	Hanuman	07
8.	Electrical safety Training	20/07/2024	Central academy	Hanuman	12
9.	EHS alert	02/07/2024	Mandor	Hanuman	11
10.	Road safety	02/07/2024	Balsamand	Hanuman	10
11.	Induction Training	12/08/2024	Shubham farm	Hanuman	10
12.	Glucose Distribution Activity	08/08/2024	Shubham farm	Hanuman	22
13.	Electrical safety Training	26/08/2024	Ramdev Nagar	Sangram	15
14.	EHS alert	05/08/2024	Parshwanath Nagar	Omprakash	20
15.	Road safety	10/08/2024	Khokhariya	Hanuman	18
16.	Induction Training	06/09/2024	Shubham farm	Hanuman	14
17.	Glucose Distribution Activity	16/09/2024	Shubham farm	Hanuman	22
18.	Electrical safety Training	04/09/2024	Ramdev Nagar	Sangram	14
19.	EHS alert	22/09/2024	Parshwanath Nagar	Omprakash	18
20.	Road safety	19/09/2024	Khokhariya	Hanuman	20
Town: Jodhpur (Drainage Works)					
1.	Road safety	04/04/24	plant	Shailesh	15
2.	Labour meeting about covid-19	07/04/24	Aashiyana duwaika	Shailesh	17
3.	Electrical safety training	12/04/24	Plant	Shailesh	17
4.	First Aid Training	17/04/24	tanwada	Shailesh	17
5.	Labour meeting about safety	24/04/24	Aashapurna	Shailesh	15
6.	Site Specific Training	30/04/24	Aashiyana duwaika	Shailesh	17
7.	Road safety	4/5/2024	plant	Mula Ram	13
8.	Labour meeting about covid-19	16/5/2024	Aashiyana duwaika	Mula Ram	41
9.	Electrical safety training	15/5/2024	Plant	Mula Ram	13
10.	First Aid Training	13/5/2024	tanwada	Mula Ram	19
11.	Labour meeting about safety	20/5/2024	Aashapurna	Mula Ram	18
12.	Site Specific Training	25/5/2024	Aashiyana duwaika	Mula Ram	16
13.	Road safety	4/5/2024	plant	Mula Ram	13
14.	Labour meeting about covid-19	16/5/2024	Aashiyana duwaika	Mula Ram	41
15.	Electrical safety training	15/5/2024	Plant	Mula Ram	13
16.	First Aid Training	13/5/2024	tanwada	Mula Ram	19
17.	Labour meeting about safety	20/5/2024	Aashapurna	Mula Ram	18
18.	Site Specific Training	25/5/2024	Aashiyana duwaika	Mula Ram	16
19.	Road safety	4/7/2024	plant	Mula Ram	13

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
20.	Labour meeting about covid-19	16/7/2024	Aashiyanduwaika	Mula Ram	41
21.	Electrical safety training	15/7/2024	Plant	Mula Ram	13
22.	FIRST AID TRAINING	13/7/2024	tanwada	Mula Ram	19
23.	Labour meeting about safety	20/7/2024	Aashapurna	Mula Ram	18
24.	Site Specific Training	25/7/2024	Aashiyanduwaika	Mula Ram	16
25.	Road safety	4/8/2024	plant	Mula Ram	113
26.	Labour meeting about covid-19	16/8/2024	Aashiyanduwaika	Mula Ram	32
27.	Electrical safety training	15/8/2024	Plant	Mula Ram	62
28.	FIRST AID TRAINING	13/8/2024	Tanwada	Mula Ram	12
29.	Labour meeting about safety	20/8/2024	Aashapurna	Mula Ram	56
30.	Site Specific Training	25/8/2024	Aashiyanduwaika	Mula Ram	16
31.	Road safety	03/09/24	Mahadev Nagar	Shailesh	12
32.	Labour meeting about covid-19	08/09/24	Plant	Shailesh	17
33.	Electrical safety training	12/09/24	Plant	Shailesh	14
34.	First aid training	15/09/24	Plant	Shailesh	10
35.	Labour meeting about safety	17/09/24	Salawas	Shailesh	15
36.	Site Specific Training	29/09/24	Salawas	Shailesh	12
Town: Balotra					
1.	PPE 's safety Training	15/04/2024	Samadary HW	Dungar S.	10
2.	PPE 's safety Training	18/04/2024	Luni River HW	Dungar S.	11
3.	Road safety Safety Training`	21/04/2024	Labour	Dungar S.	04
4.	PPE 's safety Training	10/05/2024	Samadary HW	Dungar S.	10
5.	PPE 's safety Training	16/05/2024	Luni River HW	Dungar S.	11
6.	Road safety Training	25/05/2024	Labour	Dungar S.	04
7.	PPE 's safety Training	10/05/2024	Samadary HW	Dungar S.	10
8.	PPE 's safety Training	16/05/2024	Luni River HW	Dungar S.	11
9.	Road safety Training	25/05/2024	Labour	Dungar S.	04
10.	PPE 's safety Training	10/07/2024	Sukhsagar Colony	Ajay Nagar	10
11.	PPE 's safety Training	16/07/2024	Samadary HW	Ajay Nagar	11
12.	Road safety Training	25/07/2024	Railway Phatak	Ajay Nagar	04
13.	PPE 's safety Training	11/08/2024	Sukhsagar Colony	Ajay Nagar	9
14.	PPE 's safety Training	16/08/2024	Thakrani ka Jaw	Ajay Nagar	11
15.	Road safety Training	27/08/2024	Railway Phatak	Ajay Nagar	5
16.	PPE 's safety Training	13/09/2024	Chitrakut Colony	Ajay Nagar	4
17.	PPE 's safety Training	17/09/2024	Thakrani ka Jaw	Ajay Nagar	9
18.	Road safety Training	29/09/2024	Samdary Road	Ajay Nagar	5
Town: Barmer					
1.	PPE 's safety Training	15/03/2024	Kalam Asharam	Dungar S.	10
2.	PPE 's safety Training	18/03/2024	Sharam Nagar Nehru Road	Dungar S.	15
3.	Road safety Training	21/03/2024	CRMC Building Mahaveer Nagar	Dungar S.	04
4.	PPE 's safety Training	15/05/2024	Kalam Asharam	Dungar S.	10
5.	PPE 's safety Training	18/05/2024	Sharam Nagar Nehru Road	Dungar S.	15

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
6.	Road safety Training	21/05/2024	CRMC Building Mahaveer Nagar	Dungar S.	04
7.	PPE 's safety Training	15/05/2024	Kalam Asharam	Dungar S.	10
8.	PPE 's safety Training	18/05/2024	Sharam Nagar Nehru Road	Dungar S.	15
9.	Road safety Training	21/05/2024	CRMC Building Mahaveer Nagar	Dungar S.	04
10.	PPE 's safety Training	15/07/2024	Kalam Asharam	Dungar S.	10
11.	PPE 's safety Training	18/07/2024	Shastri Nagar	Dungar S.	15
12.	Road safety Training	21/07/2024	CRMC Building Mahaveer Nagar	Dungar S.	04
13.	PPE 's safety Training	13/08/2024	Kalam Asharam	Dungar S.	9
14.	PPE 's safety Training	21/08/2024	Shastri Nagar	Dungar S.	6
15.	Road safety Training	24/08/2024	CRMC Building Mahaveer Nagar	Dungar S.	5
16.	PPE 's safety Training	13/09/2024	Kalam Asharam	Dungar S.	9
17.	PPE 's safety Training	21/09/2024	Nehru Nagar	Dungar S.	6
18.	Road safety Safety Training	24/09/2024	CRMC Building Mahaveer Nagar	Dungar S.	5
Town: Jaisalmer (City Beautification works)					
1.	PPE 's safety Training	03/4/2024	Upper Pal Gadisar Lake	Mahendar	6
2.	Road safety Training`	15/4/2024	Upper Pal Gadisar Lake	Mahendar	5
3.	Covid-19 Safety training	03/4/2024	Upper Pal Gadisar Lake	Mahendar	5
4.	PPE 's safety Training	28/05/2024	Upper Pal Gadisar Lake	Mahendar	6
5.	Road safety Training`	24/05/2024	Upper Pal Gadisar Lake	Mahendar	5
6.	Covid-19 Safety training	10/05/2024	Upper Pal Gadisar Lake	Mahendar	11
7.	PPE 's safety Training	28/05/2024	Upper Pal Gadisar Lake	Mahendar	6
8.	Road safety Training`	24/05/2024	Upper Pal Gadisar Lake	Mahendar	5
9.	Covid-19 Safety training	10/05/2024	Upper Pal Gadisar Lake	Mahendar	11
10.	PPE 's safety Training	01/07/2024	Upper Pal Gadisar Lake	Mahendar	10
11.	Road safety Training`	09/07/2024	Upper Pal Gadisar Lake	Mahendar	10
12.	Covid-19 Safety training	02/07/2024	Upper Pal Gadisar Lake	Mahendar	10
13.	PPE 's safety Training	02/08/2024	Upper Pal Gadisar Lake	Mahendar	25
14.	Road safety Training`	02/08/2024	Upper Pal Gadisar Lake	Mahendar	15
15.	Covid-19 Safety training	12/08/2024	Upper Pal Gadisar Lake	Mahendar	25
16.	PPE 's safety Training	04/09/2024	Upper Pal Gadisar Lake	Mahendar	40
17.	Road safety Training`	04/09/2024	Upper Pal Gadisar Lake	Mahendar	15
18.	Covid-19 Safety training	06/09/2024	Upper Pal Gadisar Lake	Mahendar	40
Town: Sagwara (City Beautification)					
1.	Disinfection Safety training at site	6-6-2024	Masaniiya Lake	Hafizuddin	15
2.	First Aid and Safety Training	6-6-2024	Masaniiya Lake	Hafizuddin	15
3.	Covid 19 awareness & Safety Training for Workman	15-6-2024	Masaniiya Lake	Hafizuddin	15
4.	PPE, s Safety Training	18-6-2024	Play Ground	Hafizuddin	15
5.	Excavation Safety Training	23-6-2024	Masaniiya Lake	Hafizuddin	15
6.	Site specific and labour day	23-6-2024	Masaniiya Lake	Hafizuddin	15

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
	awareness training				
7.	Blood Donation Camp	23-6-2024	Masaniiya Lake	Hafizuddin	15
8.	Disinfection Safety training at site	27-7-2024	Masaniiya Lake, & Play Ground	Hafizuddin	15
9.	First Aid and Safety Training	27-7-2024	Masaniiya Lake, & Play Ground	Hafizuddin	15
10.	Covid 19 awareness & Safety Training for Workman	31-7-2024	Masaniiya Lake, & Play Ground	Hafizuddin	15
11.	PPE, s Safety Training	31-7-2024	Play Ground	Hafizuddin	15
12.	Excavation Safety Training	23-6-2024	Play Ground	Hafizuddin	15
13.	Site specific and labour day awareness training.	23-6-2024	Play Ground	Hafizuddin	15
14.	Disinfection Safety training at site Sagwara	Daily basis	Masaniiya Lake, & Play Ground	Hafizuddin	15
15.	First Aid and Safety Training	5/8/2024	Masaniiya Lake, & Play Ground	Hafizuddin	15
16.	Covid 19 awareness & Safety Training for Workman	Daily basis	Masaniiya Lake, & Play Ground	Hafizuddin	15
17.	PPE, s Safety Training	Daily basis	Play Ground	Hafizuddin	15
18.	PPE's safety Training	15-9-2024	Masaniya /playground	Mahendra	8
19.	Induction training	20-9-2024	Masaniya /playground	Mahendra	9
20.	Training of material and work at height	22-9-2024	Masaniya /playground	Mahendra	9
21.	First Aid Training	15-9-2024	Masaniya /playground	Mahendra	9
22.	Site Specific Training	22-9-2024	Masaniya /playground	Mahendra	9
23.	Mock Drill Training	15-9-2024	Masaniya /playground	Mahendra	8
24.	Labour Meeting	20-9-2024	Masaniya /playground	Mahendra	9
Town: Bharatpur (Wastewater Works)					
1.	Work At Height Training	23/04/2024	SPS -04	Mehrudeen	04
2.	Excavation Safety Training	24/04/2024	Zone - 04	Mehrudeen	06
3.	Material Handling Training	25/04/2024	SPS - 03	Mehrudeen	08
4.	Excavation Safety Training	29/04/2024	Zone - 04	Mehrudeen	04
5.	Excavation Safety Training	15/05/2024	Zone -03	Mehrudeen	04
6.	Material Handling Training	16/05/2024	Zone - 01	Mehrudeen	06
7.	Material Handling Training	18/05/2024	Zone - 03	Mehrudeen	05
8.	Excavation Safety Training	24/05/2024	STP	Mehrudeen	09
9.	Work at Height Safety Training	06/06/2024	STP	Mehrudeen	09
10.	Excavation Safety Training	08/06/2024	Zone - 03	Mehrudeen	04
11.	Material Handling Training	18/06/2024	Zone - 03	Mehrudeen	05
12.	Excavation Safety Training	26/06/2024	Zone -01	Mehrudeen	06
13.	Work at Height Safety Training	05/07/2024	STP	Mehrudeen	19
14.	Excavation Safety Training	11/07/2024	Zone - 03	Mehrudeen	06
15.	Material Handling Training	24/07/2024	STP	Mehrudeen	08
16.	Excavation Safety Training	29/07/2024	Zone -01	Mehrudeen	06

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
17.	Work at Height Safety Training	14/08/2024	SPS 03	Mehrudeen	06
18.	Excavation Safety Training	16/08/2024	Zone - 03	Mehrudeen	04
19.	Material Handling Training	27/08/2024	SPS -03	Mehrudeen	04
20.	Snack Bite Safety Training	28/08/2024	STP	Mehrudeen	12
21.	Excavation Safety Training	04/09/2024	Zone -04	Mehrudeen	06
22.	Excavation Safety Training	07/09/2024	STP	Mehrudeen	13
23.	Material Handling Training	16/09/2024	Zone -03	Mehrudeen	04
24.	Snack Bite Safety Training	18/09/2024	Zone -03	Mehrudeen	03
Town: Bundi (Water Supply & Wastewater Works)					
1.	First-aid training	01/04/2024	STP, Ramganj Bala Ji	Rahul Saini	17
2.	Hot Work Training	07/04/2024	STP, Ramganj Bala Ji	Rahul Saini	10
3.	Safety Harness Training	15/04/2024	STP, Ramganj Bala Ji	Rahul Saini	19
4.	Covid-19 Awareness Training	23/04/2024	STP, Ramganj Bala Ji	Rahul Saini	11
5.	Safety PPE's Training	30/04/2024	STP, Ramganj Bala Ji	Rahul Saini	16
6.	Safety PPE's Training	03/05/2024	STP, Ramganj Bala Ji	Rahul Saini	11
7.	Covid-19 Awareness Training	08/05/2024	STP, Ramganj Bala Ji	Rahul Saini	12
8.	Fire Extinguisher Training	14/05 /2024	STP, Ramganj Bala Ji	Rahul Saini	13
9.	Hot Work Training	21/05/2024	STP, Ramganj Bala Ji	Rahul Saini	10
10.	First-aid training	29/05/2024	STP, Ramganj Bala Ji	Rahul Saini	11
11.	Safety PPE's Training	02/06/2024	STP, Ramganj Bala Ji	Rahul Saini	12
12.	Safety Harness Training	09/06/2024	STP, Ramganj Bala Ji	Rahul Saini	12
13.	Covid-19 Awareness Training	13/06/2024	STP, Ramganj Bala Ji	Rahul Saini	11
14.	First-aid training	18/06/2024	STP, Ramganj Bala Ji	Rahul Saini	10
15.	Hot Work Training	24/06/2024	STP, Ramganj Bala Ji	Rahul Saini	10
16.	Fire Extinguisher Training	30/06/2024	STP, Ramganj Bala Ji	Rahul Saini	13
17.	First-aid training	03/07/2024	STP, Ramganj Bala Ji	Rahul Saini	12
18.	Hot Work Training	08/07/2024	STP, Ramganj Bala Ji	Rahul Saini	09
19.	Covid-19 Awareness Training	14/07/2024	STP, Ramganj Bala Ji	Rahul Saini	14
20.	Fire Extinguisher Training	19/07/2024	STP, Ramganj Bala Ji	Rahul Saini	12
21.	Safety PPE's Training	24/07/2024	STP, Ramganj Bala Ji	Rahul Saini	11
22.	Safety Harness Training	29/07/2024	STP, Ramganj Bala Ji	Rahul Saini	13
23.	First-aid training	04/08/2024	STP, Ramganj Bala Ji	Rahul Saini	11
24.	Safety PPE's Training	10/08/2024	STP, Ramganj Bala Ji	Rahul Saini	13
25.	Safety Harness Training	16/08/2024	STP, Ramganj Bala Ji	Rahul Saini	10
26.	Covid-19 Awareness Training	22/08/2024	STP, Ramganj Bala Ji	Rahul Saini	15
27.	Fire Extinguisher Training	28/08/2024	STP, Ramganj Bala Ji	Rahul Saini	11
28.	Fire Extinguisher Training	01/09/2024	STP, Ramganj Bala Ji	Rahul Saini	13
29.	Hot work Training	07/09/2024	STP, Ramganj Bala Ji	Rahul Saini	07
30.	Safety Harness Training	12/09/2024	STP, Ramganj Bala Ji	Rahul Saini	15
31.	Covid-19 Awareness Training	17/09/2024	STP, Ramganj Bala Ji	Rahul Saini	17
32.	First-aid Training	23/09/2024	STP, Ramganj Bala Ji	Rahul Saini	14
33.	Safety PPE's Training	29/09/2024	STP, Ramganj Bala Ji	Rahul Saini	12
Town: Bundi (Drainage Works)					
1.	TBT training	22/04/2024	Bundi	A. Jabbar	10

S.No.	Training name	Date of Activity	Location	Demonstrators	No. of Participants
2.	COVID Awareness Training	27/04/2024	Bundi	A. Jabbar	15
3.	Labour day meeting	01/05/2024	Bundi	A. Jabbar	25
4.	Labour Training	07/05/2024	Bundi	A. Jabbar	05
5.	COVID Awareness Training.	17/05/2024	Bundi	A. Jabbar	07
6.	Manual weight lifting Training.	07/05/2024	Bundi	A. Jabbar	04
7.	Plantation on World Environmental Day	05/06/2024	Bundi	A. Jabbar	10
8.	Labour Training	12/06/2024	Bundi	A. Jabbar	05
9.	COVID Awareness Training.	29/06/2024	Bundi	A. Jabbar	07
10.	PPE Kit	02/07/2024	Bundi	A. Jabbar	10
11.	COVID Awareness	30/07/2024	Bundi	A. Jabbar	07
12.	PPE Kit	05/08/2024	Bundi	A. Jabbar	06
13.	COVID Awareness	24/08/2024	Bundi	A. Jabbar	05
Town: Nawalgarh					
1.	TBT	22/04/2024	Nawalgarh	Usman Gani	6
2.	Manual Handling	25/04/2024	Nawalgarh	Usman Gani	6
3.	COVID Awareness Training	28/04/2024	Nawalgarh	Usman Gani	6
Town: Bharatpur (City Beautification works)					
1.	EHS Activity	8-04-2024	Brijendra Bihari Kund	Yogendra	32
2.	Labour day celebrate Activity	01-05-2024	Town hall/Nehru park	Yogendra	40
3.	O R S Distribution	10-05-2024	Brijendra bihari kund,	Yogendra	19
4.	Labour consultation	16-07-2024	Brijendra bihari kund,	Yogendra	19
5.	Safety training	09-08-2024	Brijendra bihari kund,	Yogendra	11
6.	Safety training	27-09-2024	Brijendra bihari kund,	Yogendra	12
Town: Bhawani Mandi					
1.	TBT training	20/04/2024	Bhawani Mandi	EHS Person	12
2.	COVID Awareness Training	25/04/2024	Bhawani Mandi	EHS Person	13
3.	TBT training	22/05/2024	Bhawani Mandi	EHS Person	12
4.	COVID Awareness Training	23/05/2024	Bhawani Mandi	EHS Person	13
5.	TBT training	25/06/2024	Bhawani Mandi	EHS Person	13
6.	COVID Awareness's Training	26/06/2024	Bhawani Mandi	EHS Person	10
7.	TBT training	05/07/2024	Bhawanimandi	EHS Person	11
8.	COVID Awareness's Training	15/07/2024	Bhawanimandi	EHS Person	7
9.	TBT training	14/08/2024	Bhawanimandi	EHS Person	12
10.	TBT training	12/09/2024	Bhawani Mandi	EHS Person	05

Appendix 10: Prevention and Control Measures Adopted in RSTDSP – Additional Financing (Awareness, Prevention and Control) Compliance by Towns during April 2024 to September 2024

S. No.	Activities done	Date	Location	No. of Participants
Jodhpur (WW) Town				
1.	Thermal screening of workers at the site	Regular at site	All Sites	All workers
2.	Hand Sanitization activity of workers at site	Regular at site	All Sites	All workers
3.	Mask Distribution	Regular at site	All Sites	All workers
4.	Office & Labor Camp Disinfection Activity	Regular at site	All Sites	All workers
5.	COVID-19 Awareness & Precautions Training for workmen and staff	Regular at site	All Sites	All workers
6.	Display of Signage for Covid-19 Awareness	Regular at site	All Sites	All workers
7.	Thermal Scanning Activities	19/05/2024	Soor sagar	12
8.	Glucose Distribution to site Work	19/05/2024	Gujraws	07
9.	Hand Sanitizer Activities	05/05/2024	Ramdev Nager	9
10.	Disinfection Activity	12/05/2024	Mandor	06
11.	Distribution of Face Mask	05/05/2024	Soor sagar	12
12.	Thermal Scanning Activities	03/08/2024	Ganeshpura	11
13.	Glucose Distribution to site Work	8/08/2024	Shubham farm	22
14.	Hand Sanitizer Activities	04/08/2024	Nandari	14
15.	Disinfection Activity	13/08/2024	Central Academy	06
16.	Thermal Scanning Activities	03/09/2024	Nandari	12
17.	Glucose Distribution to site Work	8/09/2024	Khokhariaya-STP	10
18.	Hand Sanitizer Activities	04/09/2024	Nandari-SPS	22
19.	Disinfection Activity	13/09/2024	Central Academy	10
Nokha Town				
1.	Thermal screening of workers at the site	Weekly	All Site	65
2.	Hand Sanitization activity of workers at site	Daily	All site	65
3.	Mask Distribution	25-04-2024	Charkara	22
4.	Office & Labor Camp Disinfection Activity	Daily	Office	20
5.	COVID-19 Awareness & Precautions Training for workmen and staff	20-04-2024	AEn campus, Charkara	30
6.	Display of Signage for Covid-19 Awareness	-	All prominent locations	-
7.	Health Check-up Camp	22.04.23024	Bagdi, Charkara	25
8.	Site medical visit	10.04.2024 to 27.04.2024	Office	30
9.	Thermal screening of workers at the site	Weekly	All Site	55
10.	Hand Sanitization activity of workers at site	Daily	All site	55
11.	Mask Distribution	13-05-2024	Charkara	15
12.	Office & Labor Camp Disinfection Activity	Daily	Office	20
13.	COVID-19 Awareness & Precautions Training for workmen and staff	19-05-2024	Aen campus, Charkara	25
14.	Health Check-up Camp	28.05.2024	Bagdi, Charkara	30
15.	Site medical visit	10.05.2024 to 27.05.2024	Office	20
16.	Thermal screening of workers at the site	Weekly	All Site	58
17.	Hand Sanitization activity of workers at site	Daily	All site	58
18.	Mask Distribution	15-06-2024	Teja Mandir, Bagdi	10
19.	Office & Labor Camp Disinfection Activity	Daily	Office	20
20.	COVID-19 Awareness & Precautions Training for workmen and staff	17-06-2024	Teja Mandir, Charkara	15

S. No.	Activities done	Date	Location	No. of Participants
21.	Health Check-up Camp	26.06.2024	Aen campus, Teja Mandir, Charkara	30
22.	Site medical visit	10.06.2024 to 21.06.2024	Office	18
23.	Blood Donation Camp	Weekly	All Site	58
24.	Thermal screening of workers at the site	Weekly	All Site	70
25.	Hand Sanitization activity of workers at site	Daily	All site	70
26.	Mask Distribution	13-07-2024	Aen. campus, Bagdi	25
27.	Office & Labor Camp Disinfection Activity	Daily	Office	35
28.	COVID-19 Awareness & Precautions Training for workmen and staff	18-07-2024	Aen. Campus, Charkara, Bagdi	40
29.	Health Check-up Camp	27.07.2024	Aen campus, Teja Mandir, Charkara	35
30.	Site medical visit	11.07.2024 to 26.07.2024	Office	19
31.	Thermal screening of workers at the site	Weekly	All Site	50
32.	Hand Sanitization activity of workers at site	Daily	All site	50
33.	Mask Distribution	12-08-2024	Aen. campus, Bagdi	18
34.	Office & Labor Camp Disinfection Activity	Daily	Office	30
35.	COVID-19 Awareness & Precautions Training for workmen and staff	19-08-2024	Aen. Campus, Charkara, Bagdi	35
36.	Health Check-up Camp	28.08.2024	Aen campus, Teja Mandir, Charkara	31
37.	Site medical visit	10.08.2024 to 29.08.2024	Office	19
38.	Thermal screening of workers at the site	Weekly	All Site	62
39.	Hand Sanitization activity of workers at site	Daily	All site	62
40.	Mask Distribution	12-09-2024	Teja mandir, charkara	20
41.	Office & Labor Camp Disinfection Activity	Daily	Office	30
42.	COVID-19 Awareness & Precautions Training for workmen and staff	21-09-2024	Aen. Campus, Charkara, Teja mandir	35
43.	Health Check-up Camp	27.09.2024	Aen campus, Teja Mandir, Charkara	30
44.	Site medical visit	09.09.2024 to 26.09.2024	Office	21
Dungarpur Town				
1.	Thermal screening of workers at site	24-04-2024	Chamanpura	All
2.	Hand Sanitization activity of workers at site	Daily Basis	Chamanpura	All
3.	Mask Distribution	24-04-2024	Chamanpura	All
4.	Office & Labor Camp Disinfection Activity	Daily Basis	New Colony	52
5.	COVID-19 Awareness & Precautions Training for workmen and staff	24-04-2024	New Colony	116
6.	Display of Signage for Covid-19 Awareness	24-04-2024	Sati	-
7.	Thermal screening of workers at site	27-05-2024	Chamanpura	150
8.	Hand Sanitization activity of workers at site	Daily Basis	Chamanpura	150
9.	Mask Distribution	27-05-2024	Chamanpura	150
10.	Office & Labor Camp Disinfection Activity	Daily Basis	New Colony	50
11.	COVID-19 Awareness & Precautions Training for workmen and staff	27-05-2024	New Colony	150
12.	Display of Signage for Covid-19 Awareness	27-05-2024	Sati	50
13.	Thermal screening of workers at site	27-06-2024	Chamanpura	All
14.	Hand Sanitization activity of workers at site	Daily Basis	Chamanpura	All

S. No.	Activities done	Date	Location	No. of Participants
15.	Mask Distribution	27-06-2024	Chamanpura	All
16.	Office & Labor Camp Disinfection Activity	Daily Basis	New Colony	50
17.	COVID-19 Awareness & Precautions Training for workmen and staff	27-06-2024	New Colony	150
18.	Display of Signage for Covid-19 Awareness	27-06-2024	Sati	50
19.	Thermal screening of workers at site	19-07-2024	New Colony	91
20.	Hand Sanitization activity of workers at site	Daily Basis	New Colony	91
21.	Mask Distribution to workers at site	19-07-2024	New Colony	91
22.	Office & Labor Camp Disinfection Activity	Daily Basis	STP (Sati)	50
23.	COVID-19 Awareness & Precautions Training for workmen and staff	08-07-2024	Bhoiwada	91
24.	Display of Signage for Covid-19 Awareness	10-07-2024	STP (Sati)	50
25.	Thermal screening of workers at site	29-08-2024	STP (Sati)	78
26.	Hand Sanitization activity of workers at site	Daily Basis	STP (Sati)	78
27.	Mask Distribution	29-08-2024	STP (Sati)	78
28.	Office & Labor Camp Disinfection Activity	Daily Basis	STP (Sati)	15
29.	COVID-19 Awareness & Precautions Training for workmen and staff	29-08-2024	STP (Sati)	15
30.	Display of Signage for Covid-19 Awareness	12-08-2024	STP (Sati)	15
31.	Thermal screening of workers at site	22-09-2024	STP (Sati)	65
32.	Hand Sanitization activity of workers at site	22-09-2024	STP (Sati)	65
33.	Mask Distribution	22-09-2024	STP (Sati)	65
34.	Office & Labor Camp Disinfection Activity	22-09-2024	STP (Sati)	25
35.	COVID-19 Awareness & Precautions Training for workmen and staff	22-09-2024	STP (Sati)	15
36.	Display of Signage for Covid-19 Awareness	22-09-2024	STP (Sati)	10
Sagwara Town				
1.	Covid-19 Safety training	13/04/2024	Shilpy Mohalla	11
2.	Awareness and safety training	15-04-24	STP	10
3.	Thermal screening of workers at site	One week	Hari Om colony	ALL
4.	Hand Sanitization activity of workers at site	Daily Basis	Hari om colony	ALL
5.	Mask Distribution	10/05/2024	Shilpy Mohalla	80
6.	Office & Labor Camp Disinfection Activity	Daily Basis	STP	15
7.	COVID-19 Awareness & Precautions Training for workmen and staff	08/05/2024	STP	13
8.	Display of Signage for Covid-19 Awareness	15/05/2024	Hari om colony	12
9.	Thermal screening of workers at site	One week	Hari om colony	ALL
10.	Hand Sanitization activity of workers at site	Daily Basis	Punarwas	ALL
11.	Mask Distribution	19/06/2024	Punarwas	65
12.	Office & Labor Camp Disinfection Activity	Daily Basis	Office & Labour camp	15
13.	COVID-19 Awareness & Precautions Training for workmen and staff	17/06/2024	Punarwas	13
14.	Display of Signage for Covid-19 Awareness	15/05/2024	Material Camp	12
15.	Thermal screening of workers at site	One week	Camp	52
16.	Hand Sanitization activity of Workers at site	Daily Basis		52
17.	Mask Distribution	12/07/2024	Punarwas	52
18.	Office & Labor Camp Disinfection Activity	Daily Basis	Office & Labour camp	15
19.	COVID-19 Awareness & Precautions Training for workmen and staff	15/07/2024	Punarwas	17
20.	Display of Signage for Covid-19 Awareness	18/07/2024	Material Camp	10

S. No.	Activities done	Date	Location	No. of Participants
21.	Thermal screening of workers at site	One week	Labor Camp	56
22.	Hand Sanitization activity of Workers site	Daily basis	All site	56
23.	Mask Distribution	15/08/2024	Punarwas	56
24.	Office& Labor Camp Disinfection Activity	Daily Basis	Office & Labour camp	15
25.	COVID-19 Awareness & Precaution Training for workmen & staff	15/08/2024	Bhoiwara	10
26.	Display of Signage for Covid-19 Awareness	20/08/2024	Labor camp	10
27.	Thermal screening of workers at site	One week	Labour Camp	52
28.	Hand Sanitization activity of Workers site	18/09/2024	Punarwas	52
29.	Mask Distribution	18/09/2024	Punarwas	52
30.	Office& Labor Camp Disinfection Activity	Daily Basis	Office & Labour camp	20
31.	COVID-19 Training	13/09/2024	Bhoiwara	15
32.	Display of Signage for Covid-19 Awareness	20/09/2024	Punarwas	10
Nathdwara Town				
1.	Thermal screening of workers at the site	Daily Basis	All Site	ALL
2.	Hand Sanitization activity of workers at site	Daily Basis	All site	ALL
3.	Mask Distribution	Daily Basis	All site	15
4.	Office & Labor Camp Disinfection Activity	Daily Basis	All site	10
5.	COVID-19 Awareness & Precautions Training for workmen and staff	10/04/2024	WTP	20
6.	Display of Signage for Covid-19 Awareness	10/04/2024	WTP	20
7.	Thermal screening of workers at the site	Daily Basis	All Site	ALL
8.	Hand Sanitization activity of workers at site	Daily Basis	All site	ALL
9.	Mask Distribution	Daily Basis	All site	15
10.	Office & Labor Camp Disinfection Activity	Daily Basis	All site	10
11.	COVID-19 Awareness & Precautions Training for workmen and staff	03/05/2024	WTP	20
12.	Display of Signage for Covid-19 Awareness	03/05/2024	WTP	20
13.	Thermal screening of workers at the site	Daily Basis	All Site	ALL
14.	Hand Sanitization activity of workers at site	Daily Basis	All site	ALL
15.	Mask Distribution	Daily Basis	All site	15
16.	Office & Labor Camp Disinfection Activity	Daily Basis	All site	10
17.	COVID-19 Awareness & Precautions Training for workmen and staff	25/06/2024	Nathuwas	10
18.	Display of Signage for Covid-19 Awareness	03/05/2024	Nathuwas	10
19.	Thermal screening of workers at the site	Daily Basis	All Site	ALL
20.	Hand Sanitization activity of workers at site	Daily Basis	All site	ALL
21.	Mask Distribution	Daily Basis	All site	15
22.	Office & Labor Camp Disinfection Activity	Daily Basis	All site	10
23.	COVID-19 Awareness & Precautions Training for workmen and staff	25/06/2024	Nathuwas	10
24.	Display of Signage for Covid-19 Awareness	03/05/2024	Nathuwas	10
25.	Thermal screening of workers at the site	Daily Basis	All Site	ALL
26.	Hand Sanitization activity of workers at site	Daily Basis	All site	ALL
27.	Mask Distribution	Daily Basis	All site	15
28.	Office & Labor Camp Disinfection Activity	Daily Basis	All site	10
29.	COVID-19 Awareness & Precautions Training for workmen and staff	01/08/2024	Nathuwas	10
30.	Display of Signage for Covid-19 Awareness	01/08/2024	Nathuwas	10
31.	Thermal screening of workers at the site	Daily Basis	All Site	ALL
32.	Hand Sanitization activity of workers at site	Daily Basis	All site	ALL

S. No.	Activities done	Date	Location	No. of Participants
33.	Mask Distribution	Daily Basis	All site	15
34.	Office & Labor Camp Disinfection Activity	Daily Basis	All site	10
35.	COVID-19 Awareness & Precautions Training for workmen and staff	10/09/2024	Nathuwas	10
36.	Display of Signage for Covid-19 Awareness	10/09/2024	Nathuwas	10
Nimbahera Town				
1.	Thermal screening of workers at site	Daily Basis	B.R. College & WTP	ALL
2.	Hand Sanitization activity of workers at site	Daily Basis	BR, College, Zone-6,9, WTP	ALL
3.	Mask Distribution	03-09-2024 16/03/2024	WTP,B.R. College, Zone-6,	30
4.	Office & Labor Camp Disinfection Activity	Daily Basis	B.R. COLLEGE,WTP	40
5.	COVID-19 Awareness & Precautions Training for workmen and staff	03/03/2024	B.R. College	20
6.	Display of Signage for Covid-19 Awareness	04/03/2024	B.R. College	15
7.	Health Check-up Camp(LASTMONTH)	28/08/2023	RUIDP Office	30
8.	Thermal screening of workers at the site	Daily Basis	B.R. College & WTP	ALL
9.	Hand Sanitization activity of workers at site	Daily Basis	BR, College, Zone-6,9, WTP	ALL
10.	Mask Distribution	04.06.2024 24/06/2024	WTP, B.R. College, Zone-6,ZONE -11	35
11.	Office & Labor Camp Disinfection Activity	Daily Basis	B.R. College, WTP	45
12.	COVID-19 Awareness & Precautions Training for workmen and staff	04/06/2024	WTP	40
13.	Display of Signage for Covid-19 Awareness	04/06/2024	WTP	35
14.	Health Check-up Camp (LAST MONTH)	28/08/2023	RUIDP OFFICE	30
15.	Thermal screening of workers at the site	Daily Basis	B.R. College & WTP	ALL
16.	Hand Sanitization activity of workers at site	Daily Basis	BR, College, Zone-6,9, WTP	ALL
17.	Mask Distribution	04.06.2024 24/06/2024	WTP, B.R. College, Zone-6,ZONE -11	35
18.	Office & Labor Camp Disinfection Activity	Daily Basis	B.R. College, WTP	45
19.	COVID-19 Awareness & Precautions Training for workmen and staff	04/06/2024	WTP	40
20.	Display of Signage for Covid-19 Awareness	04/06/2024	WTP	35
21.	Health Check-up Camp (LAST MONTH)	28/08/2023	RUIDP Office	30
22.	Mask Distribution	05/08/2024	WTP,	32
23.	Office & Labor Camp Disinfection Activity	Daily Basis	B.R. College, WTP	20
24.	COVID-19 Awareness & Precautions Training for workmen and staff	01/08/2024	WTP	32
25.	Display of Signage for Covid-19 Awareness	01/08/2024	WTP	30
26.	Health Check-up Camp (LAST MONTH)	26/08/2024	RUIDP Office	54
27.	Mask Distribution	06/09/2024	WTP,	26
28.	Office & Labor Camp Disinfection Activity	Daily Basis	WTP	20
29.	COVID-19 Awareness & Precautions Training for workmen and staff	23/09/2024	WTP	20
30.	Display of Signage for Covid-19 Awareness	05/09/2024	WTP	15
31.	Health Check-up Camp	26/09/2024	RUIDP Office	54

S. No.	Activities done	Date	Location	No. of Participants
Ratangarh Drainage Town				
1.	Covid 19 Awareness Training	22/04/2024	Main Ginani/ Rly Quarters	10
2.	Mask Distribution	22/04/2024	Parmana Taal/ Main Ginani	10
3.	Hand Sanitizer	22/04/2024	Parmana Taal/ Main Ginani	10
4.	Thermal screening	22/04/2024	Office	7
5.	Covid 19 Awareness Training	31/05/2024	Main Ginani/ Rly Quarters	10
6.	Mask Distribution	25/05/2024	Parmana Taal/ Main Ginani	10
7.	Hand Sanitizer	27/05/2024	Parmana Taal/ Main Ginani	10
8.	Thermal screening	31/05/2024	Office, Hanuman park	7
9.	Covid 19 Awareness Training	25/06/2024	Main Ginani/ Rly Quarters	12
10.	Mask Distribution	25/06/2024	Parmana Taal/ Main Ginani	14
11.	Hand Sanitizer	23/06/2024	Parmana Taal/ Main Ginani	14
12.	Covid 19 Awareness Training	30/07/2024	Hanuman park	5
13.	Mask Distribution	30/07/2024	Hanuman park I/ Main Ginani	7
14.	Hand Sanitizer	30/07/2024	Parmana Taal/ Main Ginani	7
15.	Thermal screening	26/07/2024	Office	8
16.	Covid 19 Awareness Training	31/08/2024	Hanuman park	10
17.	Mask Distribution	30/08/2024	Hanuman park/ Main Ginani	10
18.	Hand Sanitizer	30/08/2024	ParmanaTaal/ Main Ginani	10
19.	Thermal screening	26/08/2024	Office	12
20.	Covid 19 Awareness Training	27/09/2024	Hanuman park	6
21.	Mask Distribution	27/09/2024	Hanuman park/ Main Ginani	10
22.	Hand Sanitizer	28/09/2024	Rly quarter/ Main Ginani	10
23.	Thermal screening	30/09/2024	Office	12
Jodhpur Drainage Town				
1.	Thermal screening of workers at the site	Daily (Apr 2024)	Labour Colony	230
2.	Hand Sanitization activity of workers at site	Daily (Apr 2024)	At site	175
3.	Mask Distribution	02/04/2024	At site	175
4.	Office & Labor Camp Disinfection Activity	Daily (Apr 2024)	PLANT	200
5.	COVID-19 Awareness & Precautions Training for workmen and staff	18/04/2024	At site	175
6.	Display of Signage for Covid-19 Awareness	April 2024	All prominent locations	13
7.	Thermal screening of workers at the site	Daily (May 2024)	At site	45
8.	Hand Sanitization activity of workers at site	Daily (May 2024)	At site	42
9.	Mask Distribution	Daily (May 2024)	At site	35
10.	Office & Labor Camp Disinfection Activity	Daily (May 2024)	At site	45
11.	Thermal screening of workers at the site	Daily (Jun 2024)	At site	31
12.	Hand Sanitization activity of workers at site	Daily (Jun 2024)	At site	22
13.	Mask Distribution	Daily (Jun 2024)	At site	40
14.	Office & Labor Camp Disinfection Activity	Daily (Jun 2024)	At site	10
15.	Thermal screening of workers at the site	Daily (Aug 2024)	At site	25
16.	Hand Sanitization activity of workers at site	Daily (Aug 2024)	At site	32
17.	Mask Distribution	Daily (Aug 2024)	At site	42
18.	Office & Labor Camp Disinfection Activity	Daily (Aug 2024)	At site	13
19.	Thermal screening of workers at the site	Daily (Sept 2024)	At site	41
20.	Hand Sanitization activity of workers at site	Daily (Sept 2024)	At site	45
21.	Mask Distribution	Daily (Sept 2024)	At site	100
22.	Office & Labor Camp Disinfection Activity	Daily (Sept 2024)	At site	25

S. No.	Activities done	Date	Location	No. of Participants
Jaisalmer (City Beautification works)				
1.	Mask Distribution	15/4/2024	at site	10
2.	Office & Labor Camp Disinfection Activity	Daily (Apr 2024)	at site	10
3.	COVID-19 Awareness & Precautions Training for workmen and staff	15/4/2024	at site	10
4.	Display of Signage for Covid-19 Awareness	04/4/2024	at site	5
5.	PPE 's safety Training	28/05/2024	Upper Pal Gadisar Lake	6
6.	Road safety Training	24/05/2024		5
7.	Covid-19 Safety training	10/05/2024		11
8.	Thermal screening of workers at the site	Daily (May 2024)	at site	
9.	Hand Sanitization activity of workers at site	Daily (May 2024)	at site	11
10.	Mask Distribution	13/6/2024	at site	11
11.	Office & Labor Camp Disinfection Activity	Daily (Jun 2024)	at site	11
12.	COVID-19 Awareness & Precautions Training for workmen and staff	12/6/2024	at site	11
13.	Display of Signage for Covid-19 Awareness	13/6/2024	at site	5
14.	Thermal screening of workers at the site	Daily (Jul 2024)	at site	3
15.	Hand Sanitization activity of workers at site	Daily (Jul 2024)	at site	14
16.	Mask Distribution	Daily (Jul 2024)	at site	15
17.	Office & Labor Camp Disinfection Activity	Daily (Jul 2024)	at site	4
18.	COVID-19 Awareness & Precautions Training for workmen and staff	27/7/2024	at site	10
19.	Thermal screening of workers at the site	Daily (Aug 2024)	at site	21
20.	Hand Sanitization activity of workers at site	Daily (Aug 2024)	at site	11
21.	Mask Distribution	Daily (Aug 2024)	at site	23
22.	Office & Labor Camp Disinfection Activity	Daily (Aug 2024)	at site	14
23.	COVID-19 Awareness & Precautions Training for workmen and staff	27/7/2024	at site	25
24.	Thermal screening of workers at the site	Daily (Sept 2024)	at site	25
25.	Hand Sanitization activity of workers at site	Daily (Sept 2024)	at site	26
26.	Mask Distribution	Daily (Sept 2024)	at site	12
27.	Office & Labor Camp Disinfection Activity	Daily (Sept 2024)	at site	15
28.	COVID-19 Awareness & Precautions Training for workmen and staff	23/9/2024	at site	20
Balotra Town				
1.	Thermal screening of workers at the site	Daily Basis	at site	3
2.	Hand Sanitization activity of workers at site	Daily Basis	at site	4
3.	Mask Distribution	Daily Basis	at site	10
4.	Office & Labor Camp Disinfection Activity	Daily Basis	at site	4
5.	COVID-19 Awareness & Precautions Training for workmen and staff	27/4/2024	at site	2
6.	PPE 's safety Training	10/05/2024	Samadary HW	10
7.	PPE 's safety Training	16/05/2024	Luni River HW	11
8.	Road safety Training	25/05/2024	Labour	04
9.	Thermal screening of workers at the site	Daily Basis	at site	3
10.	Hand Sanitization activity of workers at site	Daily Basis	at site	4
11.	Mask Distribution	Daily Basis	at site	10
12.	Office & Labor Camp Disinfection Activity	Daily Basis	at site	4
13.	COVID-19 Awareness & Precautions Training for workmen and staff	27/4/2024	at site	2
14.	Thermal screening of workers at the site	Daily Basis	at site	3

S. No.	Activities done	Date	Location	No. of Participants
15.	Hand Sanitization activity of workers at site	Daily Basis	at site	14
16.	Mask Distribution	Daily Basis	at site	15
17.	Office & Labor Camp Disinfection Activity	Daily Basis	at site	4
18.	COVID-19 Awareness & Precautions Training for workmen and staff	27/7/2024	at site	10
19.	Thermal screening of workers at the site	Daily Basis	at site	12
20.	Hand Sanitization activity of workers at site	Daily Basis	at site	11
21.	Mask Distribution	Daily Basis	at site	7
22.	Office & Labor Camp Disinfection Activity	Daily Basis	at site	9
23.	COVID-19 Awareness & Precautions Training for workmen and staff	28/8/2024	at site	14
24.	Thermal screening of workers at site	Daily Basis	at site	5
25.	Hand Sanitization activity of workers at site	Daily Basis	at site	11
26.	Mask Distribution	Daily Basis	at site	13
27.	Office & Labor Camp Disinfection Activity	Daily Basis	at site	5
28.	COVID-19 Awareness & Precautions Training for workmen and staff	27/9/2024	at site	7
Barmer Town				
1.	Thermal screening of workers at the site	Daily Basis	at site	6
2.	Hand Sanitization activity of workers at site	Daily Basis	at site	9
3.	Mask Distribution	Daily Basis	at site	11
4.	Office & Labor Camp Disinfection Activity	Daily Basis	at site	8
5.	COVID-19 Awareness & Precautions Training for workmen and staff	19/4/2024	at site	6
6.	PPE 's safety Training	15/05/2024	Kalam Asharam	10
7.	PPE 's safety Training	18/05/2024	Sharam Nagar Nehru Road	15
8.	Road safety Safety Training`	21/05/2024	CRMC Building Mahaveer Nagar	04
9.	Thermal screening of workers at the site	Daily Basis	at site	10
10.	Hand Sanitization activity of workers at site	Daily Basis	at site	12
11.	Mask Distribution	Daily Basis	at site	20
12.	Office & Labor Camp Disinfection Activity	Daily Basis	at site	2
13.	COVID-19 Awareness & Precautions Training for workmen and staff	27/6/2024	at site	12
14.	Thermal screening of workers at the site	Daily Basis	at site	6
15.	Hand Sanitization activity of workers at site	Daily Basis	at site	19
16.	Mask Distribution	Daily Basis	at site	19
17.	Office & Labor Camp Disinfection Activity	Daily Basis	at site	8
18.	COVID-19 Awareness & Precautions Training for workmen and staff	-----	at site	6
19.	Thermal screening of workers at the site	Daily Basis	at site	9
20.	Hand Sanitization activity of workers at site	Daily Basis	at site	5
21.	Mask Distribution	Daily Basis	at site	20
22.	Office & Labor Camp Disinfection Activity	Daily Basis	at site	3
23.	COVID-19 Awareness & Precautions Training for workmen and staff	14/8/2024	at site	25
24.	Thermal screening of workers at the site	Daily Basis	at site	5
25.	Hand Sanitization activity of workers at site	Daily Basis	at site	5
26.	Mask Distribution	Daily Basis	at site	12
27.	Office & Labor Camp Disinfection Activity	Daily Basis	at site	7
28.	COVID-19 Awareness & Precautions Training for workmen and staff	18/9/2024	at site	7

S. No.	Activities done	Date	Location	No. of Participants
Sagwara (City Beautification works)				
1.	Hand Sanitization activity of workers at site	4-5-2024	Masaniiya Lake	15
2.	Mask Distribution	4-5-2024	Masaniiya Lake	15
3.	COVID-19 Awareness & Precautions Training for workmen and staff	15-5-2024	Masaniiya Lake	15
4.	Disinfection Safety training at site	6-6-2024	Masaniiya Lake	15
5.	First Aid and Safety Training	6-6-2024	Masaniiya Lake	15
6.	Covid 19 awareness & Safety Training for Workman	15-6-2024	Masaniiya Lake	15
7.	PPE, s Safety Training	18-6-2024	Play Ground	15
8.	Excavation Safety Training	23-6-2024	Masaniiya Lake	15
9.	Site specific and labour day awareness training.	23-6-2024	Masaniiya Lake	15
10.	Blood Donation Camp	23-6-2024	Masaniiya Lake	15
11.	Thermal screening of workers at site	Daily	Masaniiya Lake	8
12.	Disinfection Safety training at site Sagwara	17-8-2024	Masaniiya Lake	11
13.	First Aid and Safety Training	5-08-2024	Masaniiya Lake	6
14.	Office & Labor Camp Disinfection Activity	DAILY	At Site	10
15.	Covid 19 awareness & Safety Training for Workman	17-08-24	Masaniiya Lake	8
16.	Thermal screening of workers at site	Daily	Masaniiya Lake	8
17.	Disinfection Safety training at site Sagwara	30-9-2024	Masaniya Lake, & Play Ground	9
18.	First Aid and Safety Training	25-09-2024	Masaniya Lake, & Play Ground	8
19.	Office & Labor Camp Disinfection Activity	30-9-2024	Masaniya Lake, & Play Ground	9
20.	Covid 19 awareness & Safety Training for Workman	30-09-24	Masaniya Lake, & Play Ground	9
Bharatpur (Wastewater works) Town				
1.	Mask & Sanitizer	23/04/2024	SPS -04	04
2.	Mask & Body Temperature	23/04/2024	SPS -04	04
3.	Mask & Sanitizer	24/04/2024	Zone - 04	06
4.	Mask & Body Temperature	24/04/2024	Zone - 04	06
5.	Mask & Sanitizer	25/04/2024	SPS -03	08
6.	Mask & Body Temperature	25/04/2024	SPS -03	08
7.	Mask & Sanitizer	29/04/2024	Zone - 04	04
8.	Mask & Body Temperature	29/04/2024	Zone - 04	04
9.	Thermal screening at the site on a daily basis	On Daily Basis	All locations	All Staffs
10.	Sanitization activity at the site on a daily basis	On Daily Basis	All locations	All Staffs
11.	Mask & Sanitizer	15/05/2024	Zone -03	04
12.	Mask & Body Temperature	15/05/2024	Zone -03	04
13.	Mask & Sanitizer	16/05/2024	Zone - 01	06
14.	Mask & Body Temperature	16/05/2024	Zone - 01	06
15.	Mask & Sanitizer	18/05/2024	Zone -04	05
16.	Mask & Body Temperature	18/05/2024	Zone -04	05
17.	Mask & Sanitizer	24/05/2024	STP	09
18.	Mask & Body Temperature	24/05/2024	STP	09
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	06/06/2024	STP	09

S. No.	Activities done	Date	Location	No. of Participants
22.	Mask & Body Temperature	06/06/2024	STP	09
23.	Mask & Sanitizer	08/06/2024	Zone - 03	04
24.	Mask & Body Temperature	08/06/2024	Zone - 03	04
25.	Mask & Sanitizer	18/06/2024	Zone -04	05
26.	Mask & Body Temperature	18/06/2024	Zone -04	05
27.	Mask & Sanitizer	26/06/2024	Zone -01	06
28.	Mask & Body Temperature	26/06/2024	Zone -01	06
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	05/07/2024	STP	19
32.	Mask & Body Temperature	05/07/2024	STP	19
33.	Mask & Sanitizer	11/07/2024	Zone - 03	06
34.	Mask & Body Temperature	11/07/2024	Zone - 03	06
35.	Mask & Sanitizer	24/07/2024	STP	08
36.	Mask & Body Temperature	24/07/2024	STP	08
37.	Mask & Sanitizer	29/07/2024	Zone -01	06
38.	Mask & Body Temperature	29/07/2024	Zone -01	06
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
41.	Mask & Sanitizer	14/08/2024	SPS 03	06
42.	Mask & Body Temperature	14/08/2024	SPS 03	19
43.	Mask & Sanitizer	16/08/2024	Zone - 03	04
44.	Mask & Body Temperature	16/08/2024	Zone - 03	04
45.	Mask & Sanitizer	27/08/2024	SPS -03	04
46.	Mask & Body Temperature	27/08/2024	SPS -03	04
47.	Mask & Sanitizer	28/08/2024	STP	12
48.	Mask & Body Temperature	28/08/2024	STP	12
49.	Thermal screening at the site on a daily basis	On Daily Basis	All locations	All Staffs
50.	Sanitization activity at the site on a daily basis	On Daily Basis	All locations	All Staffs
51.	Mask & Sanitizer	04/09/2024	Zone -04	06
52.	Mask & Body Temperature	04/09/2024	Zone -04	06
53.	Mask & Sanitizer	07/09/2024	STP	13
54.	Mask & Body Temperature	07/09/2024	STP	13
55.	Mask & Sanitizer	16/09/2024	Zone -03	04
56.	Mask & Body Temperature	16/09/2024	Zone -03	04
57.	Mask & Sanitizer	18/09/2024	Zone -03	03
58.	Mask & Body Temperature	18/09/2024	Zone -03	03
59.	Thermal screening at the site on a daily basis	On Daily Basis	All locations	All Staffs
60.	Sanitization activity at the site on a daily basis	On Daily Basis	All locations	All Staffs
Bundi Water Supply & Wastewater Works) Town				
1.	Hand sanitizing Training	23/04/2024	STP, Ramganj bala ji	11
2.	Mask Distribution	23/04/2024	STP, Ramganj bala ji	11
3.	Thermal Screening Training	23/04/2024	STP, Ramganj bala ji	11
4.	Mask Distribution	08/05/2024	STP, Ramganj bala ji	12
5.	Hand sanitizing Training	08/05/2024	STP, Ramganj bala ji	12
6.	Thermal Screening Training	08/05/2024	STP, Ramganj bala ji	12
7.	Covid-19 Awareness Training	08/05/2024	STP, Ramganj bala ji	12
8.	First-aid training	29/05/2024	STP, Ramganj bala ji	11
9.	Mask Distribution	13/06/2024	STP, Ramganj bala ji	11
10.	Hand sanitizing Training	13/06/2024	STP, Ramganj bala ji	11
11.	Thermal Screening Training	13/06/2024	STP, Ramganj bala ji	11

S. No.	Activities done	Date	Location	No. of Participants
12.	Covid-19 Awareness Training	13/06/2024	STP, Ramganj bala ji	11
13.	First-aid training	18/06/2024	STP, Ramganj bala ji	10
14.	Mask Distribution	14/07/2024	STP, Ramganj bala ji	14
15.	Hand sanitizing Training	14/07/2024	STP, Ramganj bala ji	14
16.	Thermal Screening Training	14/07/2024	STP, Ramganj bala ji	14
17.	Covid-19 Awareness Training	14/07/2024	STP, Ramganj bala ji	14
18.	First-aid training	03/07/2024	STP, Ramganj bala ji	12
19.	Hand sanitizing Training	22/08/2024	STP, Ramganj bala ji	15
20.	Mask Distribution	22/08/2024	STP, Ramganj bala ji	15
21.	Thermal Screening Training	22/08/2024	STP, Ramganj bala ji	15
22.	Covid-19 Awareness Training	22/08/2024	STP, Ramganj bala ji	15
23.	First-aid training	04/08/2024	STP, Ramganj bala ji	11
24.	Mask Distribution	17/09/2024	STP, Ramganj bala ji	17
25.	Hand sanitizing Training	17/09/2024	STP, Ramganj bala ji	17
26.	Thermal Screening Training	17/09/2024	STP, Ramganj bala ji	17
27.	Covid-19 Awareness Training	17/09/2024	STP, Ramganj bala ji	17
28.	First-aid Training	23/09/2024	STP, Ramganj bala ji	14
Nawalgarh (Drainage works) Town				
1.	COVID Awareness Training	28/04/2024	Nawalgarh	6
Bhawani Mandi (Drainage Works) Town				
2.	COVID Awareness Training	25/04/2024	Bhawani Mandi	13
3.	COVID Awareness Training	23/05/2024	Bhawani Mandi	13
4.	COVID Awareness's Training	26/06/2024	Bhawani Mandi	10
5.	COVID Awareness's Training	15/07/2024	Bhawanimandi	7
Bharatpur (City Beautification) Town				
1.	Mask Distribution	11-04-2024	Town hall/Nehru park	29
2.	O R S Distribution	10-05-2024	Brijendra bihari kund	19
3.	O R S Distribution	14-06-2024	Brijendra bihari kund	19
4.	Labour consultation	16-07-2024	Brijendra bihari kund	19
5.	COVID-19 related Activity	20-08-2024	Brijendra bihari kund	12
6.	COVID-19 related Activity	06-09-2024	Brijendra bihari kund	9
Bundi (Drainage works) Town				
1.	COVID Awareness Training	27/04/2024	Bundi	15
2.	COVID Awareness Training	17/05/2024	Bundi	07
3.	COVID Awareness Training	29/06/2024	Bundi	07
4.	COVID Awareness	30/07/2024	Bundi	07
5.	COVID Awareness	24/08/2024	Bundi	05

**Photographs showing COVID-19 (Awareness, Prevention and Control)
Compliance by Towns during April 2024 to September 2024**

	
Thermal Screening of workers at site (Nokha)	Medical Health Checkup of workers (Nokha)
	
Labor Meeting about Awareness & Safety of covid-19 (Nokha)	Hand Sanitization activity of workers at site (Nokha)
	
Thermal screening & Hand Sanitization activity at site (Jodhpur WW)	Labor Meeting about Awareness & Safety of covid-19 at Site (Jodhpur WW)
	
Thermal Screening of workers at site (Nathdwara)	Hand Sanitization activity 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



Thermal Screening of workers at site (Dungarpur)



Hand Sanitization activity of workers at site (Dungarpur)



Glucose distribution to workers at site (Dungarpur)



Face Mask Distribution to workers at Site (Dungarpur)

	
Hand Sanitization activity of workers at site Sagwara	Labour meeting for Awareness & Safety of covid-19 (Sagwara)
	
Hand Sanitization activity of workers at site (Ratangarh Drainage works)	Face Mask Distribution to workers at Site (Ratangarh Drainage)
	
Thermal Screening of workers at site (Jodhpur Drainage)	Face Mask Distribution to workers at Site (Jodhpur Drainage)
	
Labour meeting for Awareness & Safety of covid-19 (Bundi)	Hand Sanitization activity of workers at site (Bundi)

	
Thermal Screening of workers at site (Bundi)	Face Mask Distribution to workers at site (Bundi)
	
Thermal Screening & Hand Sanitization activity of workers at site (Bharatpur Sewerage works)	Face Mask Distribution to workers at site (Bharatpur City Beautification works)
	
Face Mask Distribution and Hand Sanitization activity of workers at site (Balotra)	Hand Sanitization activity of workers (Barmer)
	
Face Mask Distribution and Hand Sanitization activity of workers at site (Jaisalmer City Beautification)	Hand Sanitization activity of workers at site (Sagwara City Beautification)

Appendix 11: ENVIRONMENTAL MONITORING RESULTS DURING APRIL 2024 TO SEPTEMBER 2024 IN RSTDSP – ADDITIONAL FINANCING

Air Monitoring Results

Ambient Air Quality Standards (National and IFC Standards)					
Standards	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (µg/m ³)
National Ambient Air Quality Standards	60 (Annual) 100 (24-hr)	40 (Annual) 60 (24-hr)	50 (Annual) 80 (24-hr)	40 (Annual) 80 (24-hr)	2,000 (8-hr) 4,000 (1-hr)
IFC Standards Applicable as Per ADB SPS (µg/m³)	20 (Annual) 50 (24-hr)	10 (Annual) 25 (24-hr)	50 (Annual) 20 (24-hr) 500 (10-min)	40 (Annual) 80 (24-hr) 200 (1-hr)	2,000 (8-hr) 4,000 (1-hr) 100,000 (15-min)

Air Monitoring Results

Air Monitoring Results							
S.No.	Package / Town / Monitoring Location	Monitoring date	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	CO (mg/m ³)
1	RSTDSP/NAW-RAT/DR/01						
	Ratangarh Town						
	SWPS – 1 (Near Rly Quarters)	11.05.2024 to 13.05.2024	67.34	29.0	9.96	14.06	0.64
	SWPS - 2 (Saraf Sump well)		70.25	23.55	9.31	14.01	0.61
	SWPS – 3 (Parmana Taal)		67.08	24.35	11.33	15.12	0.56
	SWPS – 4 (Main Ginani)		74.13	24.52	11.21	15.65	0.57
	SWPS – 5 (Near BSNL Office)		66.70	24.27	9.24	13.91	0.54
	SWPS – 6 (Near Hanuman Park)		70.10	22.12	8.91	15.65	0.46
2	RSTDSP/BHR/CTYBF/01						
	Bharatpur (City Beautification Works)						
	Laxman Mandir	13.06.2024 to 14.06.2024	69.4	28.6	19.7	23.6	0.57
	Hanuman Mandir Near Shaligram Kund		60.7	26.4	8.9	25.7	0.63
	Brijendra Bihari Kund		65.5	26.5	9.16	23.7	0.69
	Town Hall & Nehru Park/ Maharaja Surajmal Park, Fort Area		59.9	23.5	10.3	25.7	0.72
3	RSTDSP/BHR/WW/01						
	Bharatpur (Wastewater Works)						
	Near New STP Construction Site at Nagar Nigam STP, Gopal nagla Mod, Acchhnera Road	06.04.2024 to 07.04.2024	73.52	26.41	7.98	23.52	0.65
	SPS-04 Construction Site, 2.25 MLD, Near Sulabh Complex		82.23	39.63	9.12	27.45	0.74
	SPS-03 Construction Site, 1.6 MLD, Near Mukharjee Nagar		77.45	34.25	8.42	26.23	0.69
SPS-01, Construction Site, 0.81 MLD, Near Nayi Mandi Shamshan	83.25		38.74	8.85	28.12	0.74	
4	RSTDSP/BUN/01						
	Bundi (Water Supply & Wastewater Works)						
	Near Guard Room STP, Ramganj Site	27.06.2024 to 29.06.2024	81.78	39.37	8.12	26.96	0.73
	CWR Pump House, Nainwa Road		76.40	32.72	7.63	23.32	0.71
	Near Ghasera Mohalla, Harijan Basti, Zone 10		79.56	35.80	7.23	23.49	0.76

	Near WTP Pump House, Jhakhmood		72.67	22.45	7.38	22.34	0.67
5	RSTDSP/BUN-BHM/DR/01						
	Bundi (Drainage Works)						
	Jait Sagar Nalla, Near Arriwali Marriage Garden	21.06.2024 to 22.06.2024	63.95	30.58	6.01	11.57	0.52
	Jait Sagar Nalla, Near Meera Bagh Choki		58.81	24.17	8.0	10.29	0.67
	City Kotwali Police Thana		59.66	29.15	8.84	10.22	0.54
	Bharat Petrol Pump (Devpura)		62.78	25.23	7.25	13.84	0.74
	Nainwa Road, Magistrate Colony		58.01	24.29	7.95	11.82	0.59
	Batching Plant, Near Meera Road		55.66	22.21	7.83	11.15	0.68
RSTDSP/BUN-BHM/DR/01							
6	Bhawani Mandi (Drainage Works)						
	Trimurti Colony Dag Road Pachhad	22.06.2024 to 23.06.2024	62.57	22.21	11.61	16.32	0.62
	Near Baba Circle		61.52	21.88	9.11	13.41	0.64
	Sadar Bazar Near Tarachand Hotel		63.96	23.78	9.91	14.04	0.66
	Asharam Road Near Santi Choraya		60.35	23.05	8.06	14.32	0.77
	Jawahar Colony Near Vivekanand Choraya		67.45	24.77	8.81	13.09	0.70
	RSTDSP/NAW-RAT/DR/01						
7	Nawalgarh (Drainage Works)						
	Near Bakra Mandi	22.06.2024 to 24.06.2024	63.17	22.12	7.18	13.52	0.62
	Near Fire Station		64.06	24.09	9.33	14.39	0.68
	Swamiyo Ka Jav		65.64	25.78	8.80	15.29	0.60
	Near Bhagton Ka Johad		67.60	25.53	8.68	14.97	0.74
	Derana Johad (Disposal Point)		50.57	25.02	8.74	14.92	0.59
	Badrana Johar (Disposal Point)		60.69	25.26	9.56	15.29	0.68
	RSTDSP/JOD/01						
8	Jodhpur (Wastewater Works)						
	STP Gujrawas	21.06.2024 to 22.06.2024	65.0	24.17	7.31	11.30	0.85
	SPS Nandri		66.36	26.86	8.66	13.43	0.74
9	RSTDSP/JOD/02						
	Jodhpur (Drainage Works)						
	Near Derby Colony	22.05.2024 to 28.05.2024	96.0	57.0	13.5	23.8	Tests not conducted
	Near Junao Complex		98.0	56.0	18.1	28.4	
	Banar Road Nandri		135.0	66.0	18.7	33.4	
	STP Plant , Salawas		96.0	58.0	19.2	30.3	
	Near Jojri River		83.0	45.0	10.5	16.7	
	Near Railway Line Banar		96.0	57.0	10.1	25.2	
Opposite khangta hospital Banar	98.0		53.0	13.5	28.4		
10	RSTDSP/NBH/01						
	Nimbahera (Water Supply Works)						
	Near RUIDP Camp Office	17.06.2024 to 18.06.2024	80.67	35.04	8.76	20.82	0.72
	Near WTP, Arniya Joshi		82.92	38.56	8.30	24.79	0.70
	Near CWR, BR College		79.12	34.58	8.23	22.86	0.74
RSTDSP/NTD/01							
11							

	Nathdwara (Water Supply Works)						
	WTP, Nand Samand	21.06.2024 to 22.06.2024	78.56	32.72	8.50	22.90	0.68
	15 KL OHSR Nathwas		80.81	32.96	8.73	24.67	0.69
	300 KL, OSHR Bhandri Bawbari		82.76	38.97	8.58	24.89	0.64
	Pipe Laying Site Sukhadiya Nagar		76.69	34.81	8.70	23.85	0.67
12	RSTDSP/NKH/01						
	Nokha (Water Supply & Wastewater Works)						
	SPS Site	10.06.2024 to 13.06.2024	75.12	32.85	9.10	18.36	0.50
	Raiser Head Works		70.84	36.96	7.32	17.12	0.40
	AEN Campus, Nanuwali Gate		68.45	31.22	7.96	15.18	0.46
	Ranarao (HW)		66.23	25.41	8.12	16.96	0.53
	Charkara STP (5 MLD)		72.36	30.45	8.31	18.96	0.42
	Water Distribution Network, Zone 9, Near Santoshi Chowk		70.11	31.95	7.90	16.88	0.49
13	Dungarpur Town						
	RSTDSP/DNG/WS-WW/01						
	Near Kendrive College	08.04.2024 to 09.04.2024	81.28	35.17	5.71	7.32	BDL
	Pragati Nagar Near Jain Temple		81.68	31.24	6.21	8.97	BDL
	Near Shahstri Colony	71.56	29.34	5.98	8.24	BDL	
14	Sagwara Town						
	RSTDSP/SGW/WS-WW/01						
	CWR Pumping Station	08.04.2024 to 09.04.2024	57.25	23.01	7.10	8.67	BDL
	Near Indian Oil Petrol Pump Punarwas Colony (1.0 MLD)		61.87	20.34	12.23	7.12	BDL
15	Balotra Town						
	RSTDSP/BLT/WS-WW/01						
	Sukh Nagar Colony	24.06.2024 to 25.06.2024	76.56	25.10	11.42	13.60	0.54
	Near Raghunath Ji Temple		76.97	27.35	8.28	13.01	0.66
	OHSR ward no. 42	75.44	25.04	7.72	12.73	0.68	
16	Barmer Town						
	RSTDSP/BAR/WW/01						
	Ram Nagar Nehru Road	23.06.2024 to 24.06.2024	71.73	24.78	7.77	13.89	0.56
	Chamunda Circle, Vishnu Colony		71.73	22.71	9.58	12.64	0.53
	CRMC Building Mahavir Nagar		73.61	24.09	9.45	13.92	0.53
	Shastri Nagar		74.26	25.25	11.92	14.20	0.57
17	Jaisalmer Town						
	RSTDSP/JSL/CTYBF/01						
	Gadisar Lake Near Café Back Side	22.06.2024	158.46	31.25	3.54	8.16	0.41
18	Sagwara Town						
	RSTDSP/SGR/CTYBF/01						
	Masaniya Lake	01.05.2024 to 02.05.2024	165.32	38.74	5.64	28.49	0.45
	Hariyala Lake		179.31	37.45	6.32	36.72	0.63
	Gamleshwar Lake 2		185.29	43.12	5.24	25.63	0.59
	Gamleshwar Lake 1		172.46	32.51	6.59	32.54	0.41
Lohariya Lake	154.59		29.36	4.21	21.96	0.37	

Noise Monitoring Results

Noise Standard (National)	Type of area	Noise Level Leq (dB(A))	
Applicable Per ADB SPS (IFC's limits for Noise Level)		Day time	Night time
	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

Noise Monitoring Results				
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)	11.05.2024 to 13.05.2024	61.10	50.1
	SWPS - 2 (Saraf Sump well)		59.72	45.20
	SWPS – 3 (Parmana Taal)		59.12	47.23
	SWPS – 4 (Main Ginani)		62.18	47.32
	SWPS – 5 (Near BSNL Office)		64.72	46.70
	SWPS – 6 (Near Hanuman Park)		61.14	51.0
2	RSTDSP/BHR/CTYBF/01			
	Bharatpur (City Beautification Works)			
	Laxman Mandir	13.06.2024 to 14.06.2024	59.7	40.6
	Hanuman Mandir Near Shaligram Kund		55.3	41.6
	Brijendra Bihari Kund		59.2	41.9
	Town Hall & Nehru Park/ Maharaja Surajmal Park, Fort Area		55.7	38.2
	3	RSTDSP/BHR/WW/01		
Bharatpur (Wastewater Works)				
Near New STP Construction Site at Nagar Nigam STP, Gopal nagla Mod, Acchhnera Road		06.04.2024 to 07.04.2024	55.9	43.1
SPS-04 Construction Site, 2.25 MLD, Near Sulabh Complex			62.8	45.6
SPS-03 Construction Site, 1.6 MLD, Near Mukharjee Nagar			56.0	42.6
SPS-01, Construction Site, 0.81 MLD, Near Nayi Mandi Shamshan	61.9		48.2	
4	RSTDSP/BUN/01			
	Bundi (Water Supply & Wastewater Works)			
	Near Guard Room STP, Ramganj Site	27.06.2024 to 29.06.2024	60.2	46.8
	CWR Pump House, Nainwa Road		57.7	49.5
	Near Ghasera Mohalla, Harijan Basti, Zone 10		65.8	44.6
	Near WTP Pump House, Jhakhmood		59.6	46.5

5	RSTDSP/BUN-BHM/DR/01			
	Bundi (Drainage Works)			
	Jait Sagar Nalla, Near Arriwali Marriage Garden	21.06.2024 to 22.06.2024	62.5	50.6
	Jait Sagar Nalla, Near Meera Bagh Choki		64.1	64.1
	City Kotwali Police Thana		63.9	48.1
	Bharat Petrol Pump (Devpura)		58.6	50.1
	Nainwa Road, Magistrate Colony		63.7	44.3
	Batching Plant, Near Meera Road		67.6	54.4
6	RSTDSP/BUN-BHM/DR/01			
	Bhawani Mandi (Drainage Works)			
	Trimurti Colony Dag Road Pachhad	22.06.2024 to 23.06.2024	64.15	48.6
	Near Baba Circle		62.45	51.6
	Sadar Bazar Near Tarachand Hotel		67.41	48.9
	Asharam Road Near Santi Choraya		61.40	50.4
	Jawahar Colony Near Vivekanand Choraya		63.14	47.3
7	RSTDSP/NAW-RAT/DR/01			
	Nawalgarh (Drainage Works)			
	Near Bakra Mandi	22.06.2024 to 24.06.2024	60.52	51.32
	Near Fire Station		61.36	50.25
	Swamiyo Ka Jav		58.36	58.36
	Near Bhagton Ka Johad		63.50	48.35
	Derana Johad (Disposal Point)		59.32	52.62
	Badrana Johar (Disposal Point)		61.40	46.10
8	RSTDSP/JOD/01			
	Jodhpur (Wastewater Works)			
	STP Gujrawas	21.06.2024 to 22.06.2024	63.50	51.10
	SPS Nandri		64.20	49.32
9	RSTDSP/JOD/02			
	Jodhpur (Drainage Works)			
	Near Derby Colony	22.05.2024 to 28.05.2024	62.4	36.8
	Near Junao Complex		68.4	39.7
	Banar Road Nandri		70.2	41.8
	STP Plant , Salawas		69.2	41.9
	Near Jojri River Prem Nagar		55.4	37.8
	Near Railway Line Banar		67.3	39.7
	Opposite khangta hospital Banar		63.9	38.2
10	RSTDSP/NBH/01			
	Nimbahera (Water Supply Works)			
	Near RUIDP Camp Office	17.06.2024 to 18.06.2024	62.7	42.0
	Near WTP, Arniya Joshi		64.9	45.1
	Near CWR, BR College		57.2	41.3
11	RSTDSP/NTD/01			
	Nathdwara (Water Supply Works)			
	WTP, Nand Samand		61.0	43.2
	1500 KL OHSR Nathwas		62.8	45.3

	300 KL, OSHR Bhandri Bawbari	21.06.2024	67.3	46.9
	Pipe Laying Site Sukhadiya Nagar	to 22.06.2024	58.9	42.7
12	RSTDSP/NKH/01			
	Nokha (Water Supply & Wastewater Works)			
	SPS Site	10.06.2024 to 13.06.2024	54.85	41.96
	Raiser Head Works		63.78	47.11
	AEN Campus, Nanuwali Gate		53.78	40.36
	Ranarao (HW)		60.12	52.66
	Charkara STP (5 MLD)		57.22	43.84
	Water Distribution Network, Zone 9, Near Santoshi Chowk		59.36	44.11
13	Dungarpur Town			
	RSTDSP/DNG/WS-WW/01			
	Near Kendrive College	08.04.2024 to	72.45	65.21
	Pragati Nagar Near Jain Temple		65.18	58.66
	Near Shahstri Colony	09.04.2024	69.53	62.58
14	Sagwara Town			
	RSTDSP/SGW/WS-WW/01			
	CWR Pumping Station	08.04.2024 to 09.04.2024	67.9	61.1
	Near Indian Oil Petrol Pump Punarwas Colony (1.0 MLD)		63.2	56.9
15	Balotra Town			
	RSTDSP/BLT/WS-WW/01			
	Sukh Nagar Colony	24.06.2024 to	61.59	40.85
	Near Raghunath Ji Temple		62.95	41.20
	OHSR ward no. 42	25.06.2024	63.25	42.50
16	Barmer Town			
	RSTDSP/BAR/WW/01			
	Ram Nagar Nehru Road	23.06.2024 to 24.06.2024	63.10	42.50
	Chamunda Circle, Vishnu Colony		61.58	41.12
	CRMC Building Mahavir Nagar		63.15	43.25
	Shastri Nagar		62.37	40.85
17	Jaisalmer Town			
	RSTDSP/JSL/CTYBF/01			
	Gadisar Lake Near Café Back Side	22.06.2024	61.8	52.6
18	Sagwara (City Beautification Suu Project) Town			
	RSTDSP/SGR/CTYBF/01			
	Masaniya Lake	01.05.2024 to 02.05.2024	51.2	45.2
	Hariyala Lake		53.4	46.5
	Gamleshwar Lake 2		50.6	42.5
	Gamleshwar Lake 1		51.7	47.9
	Lohariya Lake		49.5	41.6

Ground Water Quality Results - Ratangarh (Drainage) Sub project Town

S.No	Parameters	Units	Ratangarh (Drainage) Sub project - RSTDSP/NAW-RAT/DR/01					
			Date of Sampling: 11.05.2024					
			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)
1	pH @ 25°C	-	7.63	8.10	7.96	8.50	7.78	7.93
2	Chlorides as Cl	mg/l	546.49	231.81	907.30	112.10	738.35	423.72
3	Fluorides (as F)	mg/l	0.60	0.33	1.38	0.34	0.63	0.61
4	Nitrate as NO ₃	mg/l	2.56	2.30	3.34	2.48	2.40	3.26
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	21.12	29.95	27.15	29.95	27.13	80.0
7	Total Alkalinity	mg/l	569.9	512.50	319.80	131.20	446.90	237.80
8	Total Dissolved solids	mg/l	1350.0	956.0	1424.0	620.0	1315.0	1304.0
9	Total Hardness as CaCO ₃	mg/l	317.52	282.24	1003.52	309.68	313.60	533.12
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(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)	BDL(<0.1)
13	Lead (as Pb)	mg/l	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)
14	Manganese as Mn	mg/l	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)	BDL(<0.05)
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	0.56	0.32	0.56	0.75	0.73	5.69
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	5.4	6.2	5.6	5.9	6.4	6.3

BDL- Below Detectible Limit

Ground Water Quality Results – Bundi (Drainage works) Sub Project Town, Continuation Sheet -- 2

S. No	Parameters	Units	Town: Bundi (Drainage) RSTDSP/BUN-BHM/DR/01					
			Date of Sampling: 21.06.2024					
			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	-	7.11	7.45	8.01	8.11	7.21	7.95
2	Chlorides as Cl	mg/l	54.87	99.54	158.88	214.40	103.37	202.91
3	Fluorides (as F)	mg/l	0.23	0.35	0.25	0.49	0.40	0.35
4	Nitrate as NO ₃	mg/l	1.97	1.83	2.38	1.89	2.53	1.70
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	16.37	35.77	27.15	42.06	31.46	25.0
7	Total Alkalinity	mg/l	294.30	200.90	393.60	295.20	209.10	393.60
8	Total Dissolved solids	mg/l	410.0	395.0	568.0	677.90	438.0	584.60
9	Total Hardness as CaCO ₃	mg/l	201.6	248.4	324.0	345.60	227.36	356.40
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	0.16	0.17	0.15	0.14	0.15	0.13
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	0.36	0.55	0.50	0.46	0.38	0.56
19	Hexavalent Chromium as Cr+6)	mg/l	BDL (<0.02)	0.27	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)	BDL (<0.02)
20	Dissolved Oxygen	mg/l	5.1	6.2	5.7	5.9	6.1	5.5

BDL- Below Detectible Limit

Ground Water Quality Results – Bhawani Mandi (Drainage works) Sub Project Town, Continuation Sheet -- 3

S. No	Parameters	Units	Town: Bhawani Mandi (Drainage) RSTDSP/BUN-BHM/DR/01				
			Date of Sampling: 22.06.2024				
			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	-	7.84	7.95	7.91	7.84	7.90
2	Chlorides as Cl	mg/l	155.05	178.02	298.43	229.71	222.05
3	Fluorides (as F)	mg/l	0.25	0.25	0.63	0.35	0.70
4	Nitrate as NO ₃	mg/l	2.30	2.12	2.82	1.89	3.31
5	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL (<0.10)	BDL (<0.10)	0.25	BDL (<0.10)	BDL (<0.10)
6	Sulphate as SO ₄	mg/l	48.92	52.97	34.45	41.08	32.11
7	Total Alkalinity	mg/l	307.50	295.20	287.0	192.70	434.60
8	Total Dissolved solids	mg/l	495.0	608.0	752.0	590.0	758.60
9	Total Hardness as CaCO ₃	mg/l	356.40	345.60	514.80	226.80	453.60
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	0.15	0.15	0.14	0.23	0.18
13	Manganese as Mn	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.005)
14	Lead (as Pb)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.17)	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	0.56	0.86	2.07	1.27	0.56
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	6.4	6.7	3.17	3.8	5.2

BDL- Below Detectible Limit

Ground Water Quality Results – Nawalgarh (Drainage works) Sub Project Town, Continuation Sheet -- 4

S. No	Parameters	Units	Town: Nawalgarh (Drainage) RSTDSP/NAW-RAT/DR/01					
			Date of Sampling: 22.06.2024					
			Near Bakra Mandi	Near Fire Station	Swamiyo Ka Jav	Near Bhagton Ka Johad	Derana Johad (Disposal Point)	Badrana Johad (Disposal Point)
1	pH @ 25°C	-	7.95	7.31	7.45	7.85	7.41	7.45
2	Chlorides as Cl	mg/l	243.11	225.88	279.47	344.57	191.43	201.0
3	Fluorides (as F)	mg/l	0.31	0.25	0.28	0.35	0.25	0.30
4	Nitrate as NO ₃	mg/l	1.28	1.32	2.03	2.64	1.84	2.78
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	25.86	56.03	23.27	53.66	21.55	18.96
7	Total Alkalinity	mg/l	254.20	524.80	323.90	291.10	311.60	295.20
8	Total Dissolved solids	mg/l	521.0	877.0	623.0	730.0	584.0	594.0
9	Total Hardness as CaCO ₃	mg/l	223.20	230.40	187.20	180.0	151.20	158.40
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	0.14	0.18	0.20	0.19	0.21	0.18
13	Lead (as Pb)	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
14	Manganese as Mn	mg/l	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)	BDL (<0.05)
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	1.05	0.97	0.96	1.10	0.85	0.93
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	4.2	4.8	5.1	5.8	4.7	4.9

BDL - Below Detectible Limit

Ground Water Quality Results – Jodhpur (Drainage works) sub project town, Continuation Sheet -- 5

S. No	Parameters	Units	Town: Jodhpur (Drainage) RSTDSP/JOD/02						
			Date of Sampling: 24.05.2024						
			Near Derby Colony	Near Juno Ki Dhani	Banar Road Nanadri	Near STP Plant, Salawas	Near Jojri River Prem Nagar	Near Railway Line Banar	Opposite Khangta Hospital, Banar
1	pH @ 25°C	-	8.32	7.98	8.40	8.15	8.18	7.42	7.48
2	Total Dissolved solids	mg/l	520.0	1860.0	2395.0	300.0	1080.0	1150.0	1025.0
3	Turbidity	NTU	BDL	BDL	3.0	1.0	2.0	1.0	2.0
4	Total Alkalinity	mg/l	295.0	605.0	832.0	745.0	435.0	447.0	425.0
5	Sodium	mg/l	155.0	640.0	860.0	795.0	270.0	245.0	250.0
6	Potassium	mg/l	0.75	2.0	4.50	3.0	2.75	3.0	2.75
7	Calcium (Ca)	mg/l	36.0	42.0	18.0	19.0	65.0	95.0	64.0
8	Magnesium	mg/l	11.0	21.0	22.0	21.0	41.0	54.0	40.0
9	Total Hardness as CaCO ₃	mg/l	135.0	190.0	135.0	122.5	332.5	460.0	325.0
10	Chlorides as Cl	mg/l	90.0	545.0	612.0	520.0	194.0	253.0	172.0
11	Sulphate as SO ₄	mg/l	13.0	70.0	90.0	195.0	55.0	55.0	50.0
12	Nitrate as NO ₃	mg/l	42.0	172.0	280.0	220.0	188.0	170.0	185.0
13	Fluorides (as F)	mg/l	0.08	0.94	1.44	4.52	BDL	BDL	BDL
14	Zinc as Zn	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL
15	Copper as Cu	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL
16	Cadmium (as Cd)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL
17	Hexavalent Chromium as Cr+6)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL
18	Lead (as Pb)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL
19	Iron as Fe	mg/l	0.01	0.04	0.07	0.06	0.02	0.03	0.04
20	Phosphate as PO ₄	mg/l	4.14	4.15	3.20	7.34	3.25	4.52	3.35
21	Dissolved Oxygen	mg/l	5.89	5.85	6.25	4.85	6.45	6.30	6.26
22	Manganese as Mn	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL

BDL- Below Detectible Limit

Ground Water Quality Results –
Nathdwara (Water Supply works) Sub Project town, Continuation Sheet -- 6

S. No	Parameters	Units	Town: Nathdwara (Water Supply works) RSTDSP/NTD/01			
			Date of Sampling: 21.06.2024			
			RMC Plant	Near Goverdhan Hospital	300 KL OHSR Bhandari Bawri	Pipe Laying Site Sukhadiya Nagar
1	pH @ 25°C	-	7.36	7.31	7.20	7.88
2	Total Dissolved solids	mg/l	1458.0	1265.0	1573.0	855.0
3	Total Hardness as CaCO ₃	mg/l	612.0	560.0	588.0	276.0
4	Total Alkalinity	mg/l	336.18	628.0	672.0	404.0
5	Nitrate as NO ₃	mg/l	30.25	43.84	43.68	36.36
6	Chlorides as Cl	mg/l	408.44	203.93	235.92	98.36
7	Sulphate as SO ₄	mg/l	163.38	81.57	94.36	39.98
8	Iron as Fe	mg/l	0.10	0.12	0.12	0.08
9	Fluorides (as F)	mg/l	0.16	0.14	0.14	0.12
10	Zinc as Zn	mg/l	0.03	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 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	5.32	5.24	5.45
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 –
Nimbahera (Water Supply works) Sub Project town, Continuation Sheet -- 7

S. No	Parameters	Units	Town: Nimbahera (Water Supply works) RSTDSP/NBH/01		
			Date of Sampling: 17.06.2024		
			Ganpati Nagar Zone	WTP, Arniya Joshi	BR College
1	pH @ 25°C	-	7.30	7.14	7.80
2	Total Dissolved solids	mg/l	1140.0	621.0	874.0
3	Total Hardness as CaCO ₃	mg/l	528.0	216.0	400.0
4	Total Alkalinity	mg/l	512.0	300.0	320.0
5	Nitrate as NO ₃	mg/l	46.08	27.0	28.8
6	Chlorides as Cl	mg/l	99.96	57.98	123.96
7	Sulphate as SO ₄	mg/l	39.98	23.18	49.58
8	Iron as Fe	mg/l	0.08	0.05	0.07
9	Fluorides (as F)	mg/l	0.10	0.08	0.12
10	Zinc as Zn	mg/l	BDL	BDL	BDL
11	Copper as Cu	mg/l	BDL	BDL	BDL
12	Manganese as Mn	mg/l	BDL	BDL	BDL
13	Mercury (as Hg)	mg/l	BDL	BDL	BDL
14	Cadmium (as Cd)	mg/l	BDL	BDL	BDL
15	Arsenic (as As)	mg/l	BDL	BDL	BDL
16	Lead (as Pb)	mg/l	BDL	BDL	BDL
17	Hexavalent Chromium as Cr+6)	mg/l	BDL	BDL	BDL
18	Dissolved Oxygen	mg/l	5.45	5.62	5.40
19	Phosphate as PO ₄	mg/l	BDL	BDL	BDL
20	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL	BDL	BDL

BDL- Below Detectible Limit

Ground Water Quality Results –**Town: Dungarpur & Sagwara (Water Supply & Wastewater works) Town,****Continuation Sheet -- 8**

S.No	Parameters	Units	Town: Dungarpur RSTDSP/DNG/WS-WW/01		Town: Sagwara RSTDSP/SGW/WS-WW/01	
			Date of Sampling: 08.04.2024		Date of Sampling: 08.04.2024	
			Store Yard Near MB College	CWR & Pumping Station New Colony	CWR Pumping Station	3.6 MLD STP Near BSNL Office
1	pH @ 25°C	-	7.23	7.09	7.47	7.29
2	Total Dissolved solids	mg/l	617.56	697.0	538.51	563.45
3	Chlorides as Cl	mg/l	180.34	186.76	258.12	256.89
4	Fluorides (as F)	mg/l	0.03	0.02	0.07	0.09
5	Nitrate as NO ₃	mg/l	49.25	59.64	49.34	28.76
6	Dissolved Oxygen (DO)	mg/l	3.78	3.12	2.67	3.21
7	Total Iron as Fe	mg/l	BDL	BDL	BDL	BDL
8	Copper as Cu	mg/l	BDL	BDL	BDL	BDL
9	Lead (as Pb)	mg/l	BDL	BDL	BDL	BDL
10	Arsenic as Ar	mg/l	BDL	BDL	BDL	BDL
11	Cadmium as Cd	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	Zinc	mg/l	BDL	BDL	BDL	BDL
15	Total Chromium	mg/l	BDL	BDL	BDL	BDL
16	Total Hardness as CaCO ₃	mg/l	478.23	483.24	181.29	194.67
17	Phenol	mg/l	BDL	BDL	BDL	BDL
18	Sulphate	mg/l	42.76	48.76	28.56	17.56
19	Ortho Phosphate	mg/l	12.89	9.82	57.81	55.21
20	Alkalinity as CaCO ₃	mg/l	98.34	107.45	35.29	25.89

BDL- Below Detectible Limit

Ground Water Quality Results –
Town: Barmer (Wastewater works) & Balotra (Water Supply & Wastewater works) Town, Continuation Sheet -- 9

S.No	Parameters	Units	Town: Balotra RSTDSP/BLT/WS-WW/01			Barmer Town RSTDSP/BAR/WW/01			
			Date of Sampling: 25.06.2024			Date of Sampling: 24.06.2024			
			Sukh Sagar Colony	Raghunath Ji temple	OHSR ward no.42	Ram Nagar Nehru Road	Chamunda Circle Vishnu Colony	CRMC Building, Mahavir Nagar	Shastri Nagar
1	pH Value	-	7.61	7.51	7.96	7.31	7.51	7.11	7.92
2	Chlorides as Cl	mg/l	56.15	132.08	126.34	32.54	118.68	274.29	287.14
3	Fluorides (as F)	mg/l	0.77	0.87	0.87	0.31	0.47	0.72	0.51
4	Nitrate as NO ₃	mg/l	2.38	1.89	1.11	1.70	2.13	2.53	1.60
5	Phenolic Compound	mg/l	BDL(< 0.10)	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	33.44	83.36	31.16	29.95	60.77	160.13	185.41
7	Total Alkalinity	mg/l	118.90	348.50	172.20	135.30	377.20	401.80	410.0
8	Total Dissolved solids	mg/l	208.50	607.50	346.40	201.0	503.0	1251.60	848.0
9	Total Hardness as CaCO ₃	mg/l	133.20	345.60	129.60	154.80	154.80	381.60	284.40
10	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)
11	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)
12	Iron as Fe	mg/l	0.13	0.12	0.15	0.14	0.12	0.12	0.15
13	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)
14	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)
15	Mercury s Hg	mg/l	BDL (<0.001)	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)	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)	BDL (<0.005)
18	Total Phosphate	mg/l	0.51	0.53	0.38	0.93	0.52	0.55	0.55
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)	BDL (<0.02)
20	Dissolved Oxygen (DO)	mg/l	5.6	5.2	5.3	4.0	4.7	5.5	6.2

BDL- Below Detectible Limit

Ground Water Quality Results –**Bundi (Water Supply & Wastewater works) Sub Project Town, Continuation Sheet -- 10**

S. No	Parameters	Units	Town: Bundi (Wastewater & Water Supply) RSTDSP/BUN/01			
			Date of Sampling: 27.06.2024 & 28.06.2024			
			STP Site, Ramganj Balaji	CWR, Nainwa Road	Zone 10, harijan basti	WTP, Jhakhmood
1	pH @ 25°C	-	7.34	7.58	7.25	7.10
2	Total Dissolved solids	mg/l	628.0	672.0	826.0	1117.0
3	Total Hardness as CaCO ₃	mg/l	192.0	320.0	276.0	524.0
4	Total Alkalinity	mg/l	252.0	212.0	384.0	424.0
5	Nitrate as NO ₃	mg/l	22.68	19.08	34.56	38.16
6	Chlorides as Cl	mg/l	105.98	105.96	100.0	143.95
7	Sulphate as SO ₄	mg/l	42.38	42.38	39.98	57.58
8	Iron as Fe	mg/l	0.05	0.05	0.06	0.05
9	Fluorides (as F)	mg/l	0.13	0.19	0.09	0.09
10	Zinc as Zn	mg/l	BDL	BDL	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	6.15	5.85	6.05	5.74
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 –
Nokha (Water Supply & Wastewater works), Continuation Sheet -- 11

S. No	Parameters	Units	Nokha (Water Supply) RSTDSP/NKH/01					
			Date of Sampling: 12.06.2024					
			AEN Campus, Nanuwali Gate	Bagdi (HW)	Raiser	Ranarao	SPS	Teja Mandir
1	pH @ 25°C	-	7.41	7.41	7.24	7.73	7.55	7.20
2	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
3	Mercury (as Hg)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
4	Total Hardness as CaCO ₃	mg/l	778.0	1042.0	399.0	222.0	355.0	255.0
5	Iron as Fe	mg/l	BDL	0.009	0.006	0.008	BDL	0.005
6	Chlorides as Cl	mg/l	724.0	1102.0	541.0	342.0	502.0	315.0
7	Total Alkalinity	mg/l	372.0	202.0	372.0	324.0	302.0	340.0
8	Total Dissolved solids	mg/l	1781.0	2053.0	1293.0	881.0	1152.0	1024.0
9	Copper as Cu	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
10	Manganese as Mn	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
11	Sulphate as SO ₄	mg/l	441.0	297.0	65.0	41.0	53.0	71.0
12	Nitrate as NO ₃	mg/l	21.0	15.0	21.0	19.0	18.0	20.20
13	Fluorides (as F)	mg/l	1.0	1.2	0.5	0.9	0.5	0.6
14	Cadmium (as Cd)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
15	Arsenic (as As)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
16	Lead (as Pb)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
17	Zinc as Zn	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
18	Total Chromium as Cr)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
19	Phosphate as PO ₄	mg/l	0.09	0.60	0.11	0.21	0.06	0.09
20	Dissolved Oxygen	mg/l	6.6	6.7	7.0	7.1	7.0	7.5

BDL- Below Detectible Limit

Ground Water Quality Results –
Jodhpur (Wastewater Works) Sub Project town, Continuation Sheet -- 12

S. No	Parameters	Units	Jodhpur (Wastewater Works) RSTDSP/JOD/01	
			Date of Sampling: 21.06.2024	
			STP Gujrawas	SPS Nandri
1	pH @ 25°C	-	7.91	7.51
2	Chlorides as Cl	mg/l	96.90	98.80
3	Fluorides (as F)	mg/l	0.34	0.24
4	Nitrate as NO ₃	mg/l	1.32	1.95
5	Phenolic Compound as C ₆ H ₅ OH	mg/l	BDL (<0.10)	BDL (<0.10)
6	Sulphate as SO ₄	mg/l	26.50	32.11
7	Total Alkalinity	mg/l	238.52	200.90
8	Total Dissolved solids	mg/l	341.0	304.90
9	Total Hardness as CaCO ₃	mg/l	148.96	160.72
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	0.12	0.14
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	0.76	0.49
19	Hexavalent Chromium as Cr+6)	mg/l	BDL (<0.02)	BDL (<0.02)
20	Dissolved Oxygen	mg/l	5.1	6.3

BDL- Below Detectible Limit

Ground Water Quality Results –**Bharatpur (Wastewater Works) Sub Project Town, Continuation Sheet -- 13**

S. No	Parameters	Units	Town: Bharatpur (Wastewater Works) RSTDSP/BHR/WW/01			
			Date of Sampling: 06.04.2024			
			Near STP Construction Site at Nagar Nigam STP, Gopal Nagla Mod, Acchhnera Road	SPS – 1, Construction Site (0.81 MLD) Near Naye Mandi, Shamshan	SPS – 3, Construction Site (1.65 MLD) Near Mukharje Nagar	SPS – 4, Construction Site (2.25 MLD) Near Sulabh Complex
1	pH @ 25°C	-	7.54	7.41	7.56	7.65
2	Odour	-	Agreeable	Agreeable	Agreeable	Agreeable
3	Turbidity	NTU	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)
4	Total Solids	mg/l	2012.33	183.61	1902.63	1534.36
5	Total Dissolved solids	mg/l	1985.21	1874.10	1885.63	1520.0
6	Total Suspended solids	mg/l	27.12	19.51	17.0	14.36
7	Total Hardness as CaCO ₃	mg/l	474.21	445.25	345.20	185.41
8	Total Alkalinity	mg/l	585.56	566.41	312.36	598.41
9	Calcium (Ca)	mg/l	68.12	148.23	62.48	58.33
10	Magnesium	mg/l	64.12	25.63	35.74	5.20
11	Chlorides as Cl	mg/l	548.95	798.12	974.21	474.23
12	Fluorides (as F)	mg/l	0.19	0.29	0.25	0.19
13	Sulphate as SO ₄	mg/l	219.58	319.32	289.54	189.72
14	Nitrate as NO ₃	mg/l	57.38	39.12	25.41	62.35
15	Sodium as Na	mg/l	175.66	110.20	97.11	174.12
16	Potassium as K	mg/l	79.04	51.29	39.14	69.51
17	Iron as Fe	mg/l	0.19	0.19	0.14	0.09
18	Silver as Ag	mg/l	BDL	BDL	BDL	BDL
19	Copper as Cu	mg/l	BDL	BDL	BDL	BDL
20	Zinc as Zn	mg/l	0.04	0.05	BDL	BDL

BDL- Below Detectible Limit

Ground Water Quality Results –
Jaisalmer (City Beautification Sub Project) Town, Continuation Sheet – 14

S.No	Parameters	Units	Jaisalmer Town RSTDSP/JSL/CTYBF/01
			Date of Sampling: 24.06.2024
			Gadisar lake
1	Colour	Hazen	20.0
2	Odour	-	Agreeable
4	Total Dissolved solids	mg/l	178.0
5	Turbidity	NTU	45.59
6	pH	-	7.39
7	Calcium (as Ca)	mg/l	16.8
8	Chlorides as Cl	mg/l	39.99
9	Fluorides (as F)	mg/l	0.04
10	Magnesium (as Mg)	mg/l	9.23
11	Nitrate(NO ₃)	mg/l	1.10
12	Phenolic Compound	mg/l	BDL (< 0.0005)
13	Residual Free chlorine	mg/l	BDL (< 0.1)
14	Sulphate as SO ₄	mg/l	23.86
15	Total Alkalinity	mg/l	105.0
16	Total Hardness as CaCO ₃	mg/l	76.0
17	Aluminium (as Al)	mg/l	BDL (< 0.01)
18	Arsenic (as As)	mg/l	BDL (< 0.002)
19	Boron (as B)	mg/l	BDL (< 0.01)
20	Cadmium (as Cd)	mg/l	BDL (< 0.001)
21	Chromium as Cr	mg/l	BDL (< 0.005)
22	Copper as Cu	mg/l	BDL (< 0.01)
23	Iron as Fe	mg/l	0.085
24	Lead (as Pb)	mg/l	BDL (< 0.002)
25	Manganese as Mn	mg/l	BDL (< 0.005)
26	Mercury (as Hg)	mg/l	BDL (< 0.0005)
27	Selenium (as Se)	mg/l	BDL (< 0.005)
28	Zinc as Zn	mg/l	BDL (< 0.01)
29	Cyanide (as CN)	mg/l	BDL (< 0.03)

BDL - Below Detectible limit

Surface Water Quality Results – Bundi (Drainage works)

S. No	Parameters	Units	Town: Bundi (Drainage) RSTDSP/BUN-BHM/DR/01
			Date of Sampling: 21.06.2024
			Jait Sagar Lake
1	pH @ 25°C	-	7.14
2	Turbidity	NTU	1.62
3	Total Dissolved solids	mg/l	535.50
4	Chlorides as Cl	mg/l	63.17
5	Sulphate as SO ₄	mg/l	21.33
6	Total Suspended solids	mg/l	32.0
7	Total Hardness as CaCO ₃	mg/l	207.76
8	Calcium (as Ca)	mg/l	62.84
9	Magnesium (as Mg)	mg/l	12.38
10	Fluorides (as F)	mg/l	0.32
11	Nitrate as NO ₃	mg/l	1.75
12	Dissolved Oxygen (DO)	mg/l	6.2
13	Biochemical Oxygen demand (BOD) 3 days @ 25° C	mg/l	24.0
14	Chemical Oxygen demand	mg/l	98.35
15	Iron as Fe	mg/l	0.25
16	Zinc as Zn	mg/l	BDL(<0.20)
17	Copper as Cu	mg/l	BDL(<0.05)
18	Manganese as Mn	mg/l	BDL(<0.05)
19	Lead (as Pb)	mg/l	BDL(<0.05)
20	Arsenic as Ar	mg/l	BDL(<0.005)
21	Boron as B	mg/l	BDL(<0.2)
22	Cadmium as Cd	mg/l	BDL(<0.05)
23	Selenium as Se	mg/l	BDL(<0.005)
24	Mercury as Hg	mg/l	BDL(<0.001)
25	Sodium (as Na)	mg/l	6.40
26	Potassium (as K)	mg/l	0.98
27	Total Residual Chlorine	mg/l	BDL(<0.20)
28	Cyanide as CN	mg/l	BDL(<0.02)
29	Aluminum as Al	mg/l	BDL(<0.03)

BDL- Below Detectible Limit

**Surface Water Quality Results –
Jodhpur (Drainage works , Continuation Sheet – 2**

S. No	Parameters	Units	Town: Jodhpur (Drainage) RSTDSP/JOD/02
			Date of Sampling: 24.05.2024
			Near Derby Colony
1	pH @ 25°C	-	8.43
2	Total Dissolved solids	mg/l	1125.0
3	Turbidity	NTU	47.0
4	Total Alkalinity	mg/l	715.0
5	Sodium (as Na)	mg/l	430.0
6	Potassium (as K)	mg/l	1.0
7	Calcium (as Ca)	mg/l	21.0
8	Magnesium (as Mg)	mg/l	8.75
9	Total Hardness as CaCO ₃	mg/l	87.5
10	Chlorides as Cl	mg/l	195.0
11	Sulphate as SO ₄	mg/l	17.0
12	Nitrate as NO ₃	mg/l	16.0
13	Fluorides (as F)	mg/l	1.48
14	Iron as Fe	mg/l	0.06
15	Phosphate	mg/l	6.20
16	Dissolved Oxygen (DO)	mg/l	7.65
17	Zinc as Zn	mg/l	BDL
18	Copper as Cu	mg/l	BDL
19	Manganese as Mn	mg/l	BDL
20	Cadmium as Cd	mg/l	BDL
21	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL
22	Lead (as Pb)	mg/l	BDL
23	Total Suspended solids	mg/l	Test not conducted by contractor

BDL - Below Detectible Limit

**Surface Water Quality Results –
Bharatpur (City Beautification works), Continuation Sheet -- 3**

S. No	Parameters	Units	Bharatpur (City Beautification) RSTDSP/BHR/CTYBF/01	
			Date of Sampling: 13.06.2024	
			Shaligram Kund	Brijendra Bihari Kund
1	pH @ 25°C	-	7.23	7.35
2	Temperature	°C	28.3	28.2
3	Turbidity	NTU	8.3	9.1
4	Conductivity @ 25°C	µs/cm	6119	33496
5	Total Suspended solids	mg/l	129.0	BDL (<4.0)
6	Total Alkalinity	mg/l	490.0	340.0
7	Biochemical Oxygen demand (BOD) 3 days @ 25° C	mg/l	7.0	7.2
8	Chemical Oxygen demand	mg/l	40.0	28.0
9	Dissolved Oxygen (DO)	mg/l	4.6	3.2
10	Calcium (as Ca)	mg/l	368.0	316.0
11	Magnesium (as Mg)	mg/l	143.4	109.3
12	Chlorides as Cl	mg/l	1510.0	624.0
13	Iron as Fe	mg/l	0.17	0.15
14	Fluorides (as F)	mg/l	0.46	0.23
15	Total Dissolved solids	mg/l	3910.0	2238.0
16	Total Hardness as CaCO ₃	mg/l	1510.0	1240.0
17	Sulphate as SO ₄	mg/l	390.0	229.0
18	Phosphate	mg/l	0.93	BDL (<0.2)
19	Sodium (as Na)	mg/l	142.0	102.0
20	Manganese as Mn	mg/l	BDL (<0.1)	BDL (<0.1)
21	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL (<0.05)	BDL (<0.05)
22	Zinc as Zn	mg/l	BDL (<0.05)	BDL (<0.05)
23	Potassium (as K)	mg/l	59.0	41.0
24	Nitrate as NO ₃	mg/l	44.7	39.4
25	Cadmium as Cd	mg/l	BDL (<0.01)	BDL (<0.01)
26	Lead (as Pb)	mg/l	BDL (<0.01)	BDL (<0.01)
27	Copper as Cu	mg/l	BDL (<0.01)	BDL (<0.01)
28	Arsenic as Ar	mg/l	BDL (<0.01)	BDL (<0.01)
29	Total Coliform	MPN/100 ml	41.0	35.0
30	Total Suspended solids	mg/l	Test not conducted by contractor	

BDL- Below Detectible Limit

Surface Water Quality Results – Town: Sagwara (City Beautification works) Town, Continuation Sheet -- 4

S.No	Parameters	Units	Town: Sagwara RSTDSP/SGW/WS-WW/01 Date of Sampling: 02.05.2024				
			Hariyala Lake	Gamleshwar Lake 1	Gamleshwar Lake 2	Lohariya Lake	Masaniya Lake
1	Total Dissolved solids	mg/l	753.0	766.0	496.0	866.0	786.0
2	Turbidity	NTU	409.7	382.8	15.37	18.30	351.4
3	pH Value	-	7.24	7.13	7.12	7.47	7.15
4	Biochemical oxygen demand (BOD)	mg/l	22.0	38.0	26.0	24.0	32.0
5	Calcium	mg/l	48.0	52.0	40.0	44.0	48.0
6	Chemical Oxygen demand (COD)	mg/l	70.0	100.0	80.0	70.0	90.0
7	Chlorides as Cl	mg/l	259.92	264.92	139.96	254.92	254.92
8	Cyanide as CN	mg/l	BDL(<0.03)	BDL(<0.03)	BDL(<0.03)	BDL(<0.03)	BDL(<0.03)
9	Dissolved Oxygen (DO)	mg/l	5.8	5.6	5.6	6.0	5.7
10	Fluorides (as F)	mg/l	1.36	1.42	0.68	1.49	1.67
11	Magnesium	mg/l	34.02	17.01	24.30	36.45	29.16
12	Nitrate as NO ₃	mg/l	3.25	4.0	0.76	1.26	4.20
13	Residual Chlorine	mg/l	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)
14	Sulphate as SO ₄	mg/l	91.0	113.0	7.0	6.0	104.0
15	Total Hardness as CaCO ₃	mg/l	260.0	200.0	200.0	260.0	240.0
16	Total suspended solid	mg/l	56.0	108.0	42.0	88.0	92.0
17	Aluminium as Al	mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
18	Arsenic (as As)	mg/l	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)
19	Boron as B	mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
20	Cadmium (as Cd)	mg/l	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)	BDL (<0.001)
21	Chromium as Cr)	mg/l	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)
22	Copper as Cu	mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)
23	Total Iron as Fe	mg/l	0.082	0.079	0.079	0.075	0.078
24	Lead (as Pb)	mg/l	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)	BDL (<0.002)
25	Manganese as Mn	mg/l	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)
26	Mercury (as Hg)	mg/l	BDL (<0.0005)	BDL (<0.0005)	BDL (<0.0005)	BDL (<0.0005)	BDL (<0.0005)
27	Potassium	mg/l	BDL (<0.25)	BDL (<0.25)	BDL (<0.25)	BDL (<0.25)	BDL (<0.25)
28	Sodium as Na	mg/l	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)
29	Selenium	mg/l	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)	BDL (<0.005)
30	Zinc as Zn	mg/l	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)	BDL (<0.01)

BDL- Below Detectible Limit

**Surface Water Quality Results –
Town: Sagwara (Water Supply & Wastewater works) Town, Continuation Sheet -- 5**

S.No	Parameters	Units	Town: Sagwara
			RSTDSP/SGW/WS-WW/01
			Date of Sampling: 08.04.2024
			CWR pumping station
1	pH Value	-	6.23
2	Turbidity	mg/l	0.08
3	Total Dissolved solids	mg/l	413.25
4	Total suspended solid	mg/l	10.56
5	Total Hardness as CaCO ₃	mg/l	146.78
6	Chlorides as Cl	mg/l	189.59
7	Sodium as Na	mg/l	195.23
8	Potassium	mg/l	15.67
9	Dissolved Oxygen (DO)	mg/l	4.97
10	Chemical Oxygen demand (COD)	mg/l	8.93
11	Biochemical oxygen demand (BOD)	mg/l	2.55
12	Fluorides (as F)	mg/l	0.07
13	Sulphate as SO ₄	mg/l	16.89
14	Nitrate as NO ₃	mg/l	31.52
15	Total Iron as Fe	mg/l	BDL
16	Calcium	mg/l	45.26
17	Magnesium	mg/l	6.78
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 –
Nathdwara (Water Supply), Continuation Sheet -- 6**

S. No	Parameters	Units	Town: Nathdwara (Water Supply) RSTDSP/NTD/01
			Date of Sampling: 21.06.2024
			WTP Nand Samand
1	pH @ 25°C	-	8.28
2	Turbidity	NTU	BDL (<5.0)
3	Total Dissolved solids	mg/l	612.0
4	Total Suspended solids	mg/l	28.0
5	Chlorides as Cl	mg/l	75.98
6	Fluorides (as F)	mg/l	0.16
7	Sulphate as SO ₄	mg/l	30.38
8	Nitrate as NO ₃	mg/l	26.28
9	Iron as Fe	mg/l	0.08
10	Total Hardness as CaCO ₃	mg/l	168.0
11	Calcium (as Ca)	mg/l	36.86
12	Magnesium (as Mg)	mg/l	21.38
13	Sodium (as Na)	mg/l	87.6
14	Potassium (as K)	mg/l	39.42
15	Zinc as Zn	mg/l	0.10
16	Hexavalent Chromium as Cr ⁺⁶	mg/l	BDL
17	Copper as Cu	mg/l	0.07
18	Manganese as Mn	mg/l	BDL
19	Aluminum as Al	mg/l	BDL
20	Arsenic as Ar	mg/l	BDL
21	Boron as B	mg/l	BDL
22	Lead (as Pb)	mg/l	BDL
23	Cadmium as Cd	mg/l	BDL
24	Mercury as Hg	mg/l	BDL
25	Total Residual Chlorine	mg/l	BDL
26	Dissolved Oxygen (DO)	mg/l	5.82
27	Biochemical Oxygen demand (BOD) 3 days @ 25° C	mg/l	12.60
28	Chemical Oxygen demand	mg/l	40.84
29	Cyanide as CN	mg/l	BDL
30	Selenium as Se	mg/l	BDL

BDL- Below Detectible Limit

Soil Quality Results – Ratangarh Drainage Sub Project Town

Sr. No	Parameters	Unit of Measurements	Ratangarh (Drainage) Sub project - RSTDSP/NAW-RAT/DR/01					
			Date of Sampling: 11.05.2024 & 12.05.2024					
			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)
1	pH (at 25°C)	-	8.11	7.91	7.51	8.25	8.21	8.31
2	Available Nitrogen as N	Kg/ha	115.57	167.14	205.43	154.04	141.43	192.69
3	Potassium as K	Kg/ha	286.44	1524.97	646.20	579.25	436.38	509.80
4	Electrical Conductivity	mS/cm	0.195	0.798	0.251	0.374	0.315	0.245
5	Calcium as Ca	mg/kg	227.81	204.24	47.13	141.40	164.96	196.39
6	Magnesium as Mg	mg/kg	41.94	40.99	31.93	57.20	39.56	28.60
7	Organic Matter	%	0.35	0.46	0.51	0.35	0.41	0.37
8	Soil Moisture	%	0.34	0.35	0.77	0.57	1.77	0.38
9	Sodium as Na	mg/kg	205.60	748.72	228.58	209.67	262.75	325.61
10	Soil Texture	-	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
11	Permeability	Cm/S	0.0005	0.0006	0.0008	0.0006	0.0007	0.0007
12	Oil & Grease	mg/kg	BDL (< 5.0)	BDL (< 5.0)	BDL (< 5.0)	BDL (< 5.0)	BDL (< 5.0)	BDL (< 5.0)
13	Phosphate	Kg/ha	26.11	37.23	34.28	35.12	24.15	29.04

BDL- Below Detectible Limit

Soil Quality Results – Bundi (Drainage works) Sub Project Town, Continuation Sheet -- 2

Sr. No	Parameters	Unit of Measurements	Town: Bundi (Drainage works) RSTDSP/BUN-BHM/DR/01					
			Date of Sampling: 21.06.2024					
			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)	-	7.95	8.01	8.01	7.91	8.11	7.21
2	Available Nitrogen	Kg/ha	302.13	340.71	358.15	276.42	372.84	257.14
3	Potassium as K	kg/ha	199.23	208.21	191.44	221.75	219.46	192.63
4	Electrical Conductivity	mS/cm	0.289	0.341	0.296	0.365	0.345	0.356
5	Calcium as Ca	mg/kg	23.56	47.13	56.48	78.55	94.26	54.98
6	Magnesium as Mg	mg/kg	8.10	9.53	7.52	12.87	14.30	10.01
7	Organic Matter	%	0.68	0.85	0.69	1.01	0.99	0.54
8	Soil Moisture	%	1.04	0.93	0.99	1.77	1.25	1.28
9	Sodium as Na	mg/kg	101.93	103.94	94.41	98.99	92.99	96.99
10	Soil Texture	--	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
11	Permeability	cm/sec.	0.009	0.0008	0.006	0.007	0.007	0.008
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	20.85	13.83	19.17	21.94	23.44	23.14

BDL- Below Detectible Limit

Soil Quality Results – Bhawani Mandi (Drainage works) Sub Project town, Continuation Sheet -- 3

Sr. No	Parameters	Unit of Measurements	Name of Town: Bhawani Mandi (Drainage works) Package No. RSTDSP/BUN-BHM/DR/01				
			Date of Sampling: 22.06.2024				
			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)	-	8.21	7.11	7.45	8.25	7.95
2	Available Nitrogen	Kg/ha	334.28	379.29	372.79	327.82	281.36
3	Potassium as K	kg/ha	205.90	221.61	230.70	237.38	237.14
4	Electrical Conductivity	mS/cm	0.395	0.316	0.345	0.296	0.365
5	Calcium as Ca	mg/kg	54.98	62.84	86.41	94.26	54.98
6	Magnesium as Mg	mg/kg	10.01	7.15	8.58	13.82	14.77
7	Organic Matter	%	0.76	0.85	0.76	0.63	7.90
8	Soil Moisture	%	1.04	1.09	1.08	1.56	1.95
9	Sodium as Na	mg/kg	84.96	91.94	95.99	100.07	90.88
10	Soil Texture	--	Clay Loam	Clay Loam	Clay Loam	Clay Loam	Clay Loam
11	Permeability	cm/sec.	0.006	0.007	0.006	0.007	0.006
12	Oil & Grease	mg/kg	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)	BDL(<0.5)
13	Phosphate	Kg/ha	29.18	21.43	25.05	26.19	18.84

BDL - Below Detectible Limit

Soil Quality Results – Nawalgarh (Drainage works) Sub Project town, Continuation Sheet -- 4

Sr. No	Parameters	Unit of Measurements	Town: Nawalgarh (Drainage works) RSTDSP/NAW-RAT/DR/01					
			Date of Sampling: 22.06.2024					
			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)	-	8.01	7.21	7.01	8.21	7.85	8.31
2	Available Nitrogen	Kg/ha	160.71	186.41	147.84	160.71	141.43	160.66
3	Potassium as K	kg/ha	145.50	145.53	156.79	163.48	156.76	174.64
4	Electrical Conductivity	mS/cm	0.395	0.365	0.345	0.256	0.398	0.310
5	Calcium as Ca	mg/kg	187.57	144.28	202.0	230.86	223.64	165.93
6	Magnesium as Mg	mg/kg	35.89	26.70	21.01	49.46	59.09	43.33
7	Organic Matter	%	0.50	0.78	0.82	0.87	0.96	0.68
8	Soil Moisture	%	3.92	4.35	2.81	3.09	3.40	4.15
9	Sodium as Na	mg/kg	54.94	72.96	98.99	94.99	97.95	92.97
10	Soil Texture	--	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
11	Permeability	cm/sec.	0.005	0.009	0.008	0.007	0.007	0.006
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	22.01	28.50	34.75	40.05	38.89	38.22

BDL- Below Detectible Limit

Soil Quality Results – Jodhpur (Drainage works) Sub Project Town, Continuation Sheet -- 5

Sr. No	Parameters	Unit of Measurements	Town: Jodhpur (Drainage) RSTDSP/JOD/02						
			Date of Sampling: 24.05.2024						
			Near Derby Colony	Near Juno Complex	Banar Road, Nandri	Near Jodri River Prem Nagar	Near Railway Line, Banar	STP Plant, Salawas	Opposite Khangta Hospital, Banar
1	pH (at 25°C)	-	8.38	8.50	9.56	9.75	9.10	10.42	8.85
2	Electrical Conductivity	mS/cm	0.510	0.170	0.235	3.90	0.120	0.95	0.685
3	Soil Texture - Sand	%	87.30	86.30	89.20	80.78	89.25	89.40	80.27
	Silt		7.56	7.60	6.14	11.25	5.70	4.56	7.90
	Clay		5.14	6.10	4.66	7.97	5.05	6.04	11.83
4	Water Holding Capacity	%	29.10	32.10	32.52	36.25	36.15	30.96	34.14
5	Soil Moisture	%	0.56	0.50	1.28	1.47	1.30	1.27	1.45
6	Sodium as Na	meq/lit.	2.19	0.30	1.087	1.957	0.173	1.15	1.91
7	Potassium as K	meq/lit.	0.97	0.14	0.448	0.897	0.301	0.35	0.307
8	Chloride	meq/lit.	2.55	0.85	1.25	28.2	1.20	0.30	1.805
9	Calcium as Ca	meq/lit.	1.55	0.75	0.50	10.3	1.0	1.40	4.8
10	Magnesium as Mg	meq/lit.	0.60	0.70	1.20	2.15	0.75	0.35	0.95
11	Nitrate Nitrogen	meq/lit.	1.37	0.67	0.27	6.77	0.20	0.44	0.46
12	Phosphate	mg/kg	7.80	8.40	10.8	6.60	9.60	6.0	9.6
13	Organic Carbon	%	0.065	0.20	0.18	0.044	0.19	0.073	0.43
14	Organic Matter	%	0.111	0.344	0.30	0.075	0.34	0.125	0.73
16	Oil & Grease	mg/kg	Test not conducted by contractor						

Soil Quality Results – Nathdwara & Nimbahera (Water Supply) Continuation Sheet -- 6

Sr. No	Parameters	Unit of Measurements	Town: Nathdwara (Water Supply works) RSTDSP/NTD/01				Town: Nimbahera (Water Supply works) RSTDSP/NBH/01
			Date of Sampling: 21.06.2024				Date of Sampling: 21.06.2024
			WTP, Nand Samand	1500 KL, OSHR Nathuwas	300 KL, OSHR Bhandri Bawbari	Pipe Laying Site, Sukhadiya Nagar	WTP Arniya Joshi
1	pH (at 25°C)	-	7.52	7.60	8.14	7.91	7.55
2	Electrical Conductivity	mS/cm	592.0	623.0	735.0	578.0	462.0
3	Soil Moisture	%	17.45	15.77	8.46	14.82	14.55
4	Total Nitrogen (TKN)	%	523.45	574.76	212.58	485.26	0.06
5	Sodium as Na	kg/ha	72.57	88.92	22.82	70.12	143.68
6	Potassium as K	kg/ha	62.71	70.60	62.45	52.65	82.32
7	Organic Matter	%	0.70	0.66	0.63	0.66	3.46
8	Calcium as Ca	mg/kg	9.40	8.68	5.67	8.62	26.87
9	Magnesium as Mg	mg/kg	3.87	2.91	1.81	2.34	7.94
10	Phosphorus	mg/kg	52.76	41.18	36.96	84.78	82.45
11	Oil & Grease	mg/kg	BDL	BDL	BDL	BDL	BDL
12	Permeability	cm/hr.	8.10	6.10	12.98	10.92	8.41
13	Texture	--	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
	Sand	%	62.0	64.0	73.20	65.90	70.61
	Silt	%	22.10	18.80	12.50	18.0	18.31
	Clay	%	15.90	17.20	14.30	16.10	11.08

BDL- Below Detectible Limit

Soil Quality Results – Dungarpur & Sagwara (Water Supply & Wastewater works) Towns, Continuation Sheet -- 7

S.No.	Parameters	Unit of Measurements	Town: Dungarpur RSTDSP/DNG/WS-WW/01		Town: Sagwara RSTDSP/SGW/WS-WW/01	
			Date of Sampling: 08.04.2024		Date of Sampling: 08.04.2024	
			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)	-	7.34	7.53	7.21	7.14
2.	Electrical Conductivity	mS/cm	0.91	0.83	0.62	0.59
3.	Moisture (water content)	%	1.45	1.05	1.98	0.97
4.	Organic Matter	%	0.57	0.59	0.45	0.29
5.	Total Nitrogen (as N)	Mg/Kg	21.34	17.27	16.23	9.98
6.	Calcium (as Ca)	Mg/Kg	13.68	13.98	15.43	13.73
7.	Magnesium (as Mg)	Mg/Kg	3.09	3.13	1.70	1.51
8.	Sodium (as Na)	Kg/ha	23.57	18.21	20.34	16.67
9.	Potassium (as K)	Kg/ha	6.11	3.45	2.34	1.92
10.	Phosphate	Kg/ha	12.43	15.28	13.27	11.34
11.	Oil & Grease	mg/kg	BDL	BDL	BDL	BDL
12.	Permeability	cm/h	0.03	0.04	0.03	0.02
13.	Slit	%	16.0	13.0	16.0	11.0
	Clay	%	7.0	7.0	6.0	8.0
	Sand	%	77.0	80.0	78.0	81.0

BDL- Below Detectible Limit

Soil Quality Results – Barmer (Wastewater works) & Balotra (Water Supply & Wastewater works) Sub Project Town
Continuation Sheet --8

S.No.	Parameters	Unit of Measurements	Barmer Town RSTDSP/BAR/WW/01				Balotra Town RSTDSP/BLT/WS-WW/01		
			Date of Sampling: 24.06.2024				Date of Sampling: 25.06.2024		
			Ram Nagar Nehru Road	Chamunda Circle, Vishnu Colony	CRMC Building Mahavir Nagar	Shastri Nagar	Sukh Sagar Colony	Near Raghunath Ji Temple	OSHR Ward no. 42
1.	pH	-	7.11	8.01	8.01	7.51	8.01	8.21	7.84
2.	Available Nitrogen	Kg/ha	269.83	257.09	257.12	231.41	205.65	224.96	231.40
3.	Available Phosphorus	Kg/ha	467.78	563.76	493.37	280.07	117.95	106.86	119.68
4.	Potassium (as K)	Kg/ha	378.53	873.55	2440.86	716.35	671.58	895.44	716.35
5.	Electrical Conductivity	mS/cm	2.62	2.62	3.65	2.42	1.42	3.21	1.32
6.	Calcium (as Ca)	Mg/Kg	129.85	187.57	281.36	216.43	404.0	418.43	425.64
7.	Magnesium (as Mg)	Mg/Kg	19.26	18.38	32.39	24.47	40.71	24.51	32.70
8.	Organic Matter	%	0.71	0.75	0.75	0.85	1.05	1.76	1.82
9.	Soil Moisture	%	1.02	1.34	1.26	1.07	1.90	1.84	1.25
10.	Sodium (as Na)	mg/kg	249.98	289.98	889.94	489.69	299.81	419.47	319.92
11.	Soil Texture	-	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
12.	Permeability	cm/sec	0.004	0.009	0.009	0.007	0.008	0.007	0.008
13.	Oil & Grease	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL	BDL

BDL - Below Detectible Limit

Soil Quality Results – Nokha (Water Supply & Wastewater Works) Sub Project Town, Continuation Sheet --9

Sr. No	Parameters	Unit of Measurements	Nokha (Water Supply & Wastewater Works) town RSTDSP/NKH/01					
			Date of Sampling: 12.06.2024					
			Raiser Head Works	Ranarao HW	SPS Site	AEN Campus, Nanuwali Gate	Bagdi Head Works	Charkara STP
1	pH (at 25°C)	-	8.32	8.21	8.51	8.74	8.74	8.3
2	Electrical Conductivity	mS/cm	78.0	47.0	239.0	57.0	181.0	106.0
3	Calcium as Ca	%	0.124	0.08	0.17	0.105	0.138	0.12
4	Magnesium as Mg	%	0.003	0.002	0.002	0.004	0.003	0.003
5	Sodium as Na	%	0.015	0.035	0.030	0.070	0.025	0.015
6	Potassium as K	%	0.040	0.050	0.035	0.120	0.030	0.050
7	Organic Matter	%	0.20	0.21	0.16	0.31	0.21	0.29
8	Total Nitrogen (TKN)	%	0.11	0.07	0.08	0.008	0.07	0.065
9	Phosphorus	%	0.006	0.005	0.006	0.007	0.007	0.004
10	Oil & Grease	mg/kg	BDL	BDL	BDL	BDL	BDL	BDL
11	Soil Moisture	%	0.67	1.11	1.78	1.20	1.76	1.53

BDL- Below Detectible Limit

Soil Quality Results – Bundi (Wastewater & Water Supply)**Continuation Sheet -- 10**

Sr. No	Parameters	Unit of Measurements	Town: Bundi (Wastewater & Water Supply) RSTDSP/BUN/01			
			Date of Sampling: 27.06.2024			
			WTP, Jhakhmoond	STP Site, Ramganj Balaji	CWR, Nainwa Road	Zone 10 Harijan Basti
1	pH (at 25°C)	-	6.80	7.70	7.94	7.84
2	Electrical Conductivity	µS/cm	362.0	695.0	643.0	610.0
3	Soil Moisture	%	24.20	21.44	20.17	25.70
4	Total Nitrogen (TKN)	%	0.07	0.05	0.06	0.06
5	Sodium as Na	kg/ha	1142.30	123.26	146.34	130.78
6	Potassium as K	kg/ha	89.84	66.14	95.20	85.80
7	Organic Matter	%	4.55	4.16	4.54	4.10
8	Calcium as Ca	mg/kg	25.98	17.02	13.67	30.60
9	Magnesium as Mg	mg/kg	13.05	6.98	10.54	4.42
10	Phosphorus	mg/kg	179.80	121.10	156.04	171.10
11	Oil & Grease	mg/kg	BDL	BDL	BDL	BDL
12	Permeability	cm/hr.	8.45	8.06	8.56	8.60
13	Texture	--	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
	Sand	%	65.80	69.05	66.60	73.95
	Silt	%	17.50	11.80	13.95	11.30
	Clay	%	16.70	19.10	19.30	14.75

BDL- Below Detectible Limit**Soil Quality Results – Jodhpur (Wastewater works) Sub Project Town****Continuation Sheet -- 11**

Sr. No	Parameters	Unit of Measurements	Town: Jodhpur (Wastewater works) RSTDSP/JOD/01	
			Date of Sampling: 21.06.2024	
			STP Gujrawas	SPS Nandri
1.	pH	-	7.21	7.85
2.	Available Nitrogen	Kg/ha	250.72	244.27
3.	Available Phosphorus	Kg/ha	17.18	20.96
4.	Potassium (as K)	Kg/ha	295.46	322.53
5.	Electrical Conductivity	mS/cm	0.463	0.415
6.	Calcium (as Ca)	Mg/Kg	306.37	251.38
7.	Magnesium (as Mg)	Mg/Kg	21.45	24.31
8.	Organic Matter	%	0.67	0.71
9.	Soil Moisture	%	0.47	0.89
10.	Sodium (as Na)	mg/kg	98.99	103.99
11.	Soil Texture	-	Sandy Loam	Sandy Loam
12.	Permeability	cm/sec	0.007	0.008
13.	Oil & Grease	mg/kg	BDL(<0.5)	BDL(<0.5)

BDL- Below Detectible Limit

Soil Quality Results – Bharatpur (Wastewater Works) Sub Project Town
Continuation Sheet -- 12

Sr. No	Parameters	Unit of Measurements	Town: Bharatpur (Wastewater Works) RSTDSP/BHR/WW/01			
			Date of Sampling: 06.04.2024			
			SPS-04 Construction Site (2.25 MLD, Near Sulabh Complex)	SPS-03 Construction Site (1.65 MLD, Near Mukharjee Nagar)	SPS 1, Construction Site (0.81 MLD) Near Naye Mandi Shamshan	Near new STP Construction Site at Nagar Nigam STP Gopal Nagla Mod
1	pH (at 25°C)	-	7.51	7.27	7.95	7.85
2	Electrical Conductivity	µS/cm	511.2	569.2	498.2	512.3
3	Organic Carbon	%	0.43	0.38	0.78	0.71
4	Organic Matter	%	3.01	1.67	2.98	3.12
5	Available Nitrogen as N	mg/kg	501.23	452.10	456.10	585.3
6	Sodium as Na	mg/kg	124.51	135.21	105.6	167.84
7	Potassium as K	mg/kg	189.56	169.52	141.23	215.96
8	Iron as Fe	mg/kg	3.85	5.12	5.58	3.45
9	Copper as Cu	mg/kg	0.23	0.10	0.21	0.21
10	Zinc as Zn	mg/kg	0.89	0.65	0.58	0.85

BDL- Below Detectible Limit

Soil Quality Results –Jaisalmer (City Beautification works) Town,
Continuation Sheet -- 13

S.No	Parameters	Unit of Measurements	Jaisalmer Town RSTDSP/JSL/CTYBF/01
			Date of Sampling: 24.06.2024
			Kabristan Raft Area
1.	pH	-	7.52
2.	Electrical Conductivity	µS/cm	420.0
3.	Available Nitrogen	mg/kg	96.0
4.	Available Phosphorus	mg/kg	70.50
5.	Sodium (as Na)	mg/kg	8078.56
6.	Exchangeable Calcium	mg/kg	2460.0
7.	Exchangeable Potassium	mg/kg	120.0
8.	Organic Matter	%	0.59
9.	Total Suspended Solids	mg/kg	0.014
10.	Boron as B	mg/kg	46.78
11.	Copper as Cu	mg/kg	14.97
12.	Manganese as Mn	mg/kg	436.82
13.	Organic Carbon	mg/kg	0.34
14.	Total Iron	mg/kg	828.31
15.	Sulphur	mg/kg	2.80
16.	zinc	mg/kg	24.52

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)
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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

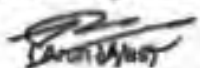
Project Management and Capacity Building Consultancy (Phase - RSTDSP (RUIDP-IV))			
Received by 21/12/2020		Forward No. 1900	
TL	DTL/EE	CMSC	SSO
GPBS	ES	PE	CMSC
PG	ICM	PE	II
CS	PE	PHI Eng	WCL
PC	CM	PHV	SSO

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 SE/EE PIU, assistant safeguard officer (ASO), field level PIU, CMSC, and the contractor.	The ACE at zonal PIU will resolve the grievance within 7 days of receipt of complaint/grievance.	Environmental and Social Safeguards Personnel of CMSC will keep all the records referred to zonal PIU and after completion, all the details will be submitted to PMU.
3rd level: All the grievances that are not addressed by Zonal PIU within 7 days of receipt will be brought to the notice of the PMU.	Project Officer (Social/Environment) at PMU will resolve the grievance with necessary coordination of Zonal PIU and CMSC and guidance/instruction of additional project director (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.

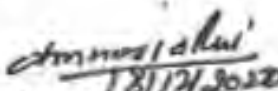
It is also directed that names and contact number of the concerned Safeguard and Safety Officer (SSO) of PIU, contractors, safeguard support staff of CMSC will be posted at all construction sites at visible locations.

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

Page 2 of 2

APPENDIX 13: ACCIDENT, INCIDENT, NEAR MISS AND FIRST AID CASES IN PROJECT TOWNS DURING APRIL 2024 TO SEPTEMBER 2024 PERIOD

1. Town: Jodhpur (Drainage Sub Project)

Contractor: M/s SMCC – AG JV

Duration: 1st April 2024 to 30th September 2024

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2024	0	0	0	0
May 2024	0	0	0	0
June 2024	0	0	0	0
July 2024	0	0	0	0
August 2024	0	0	0	0
September 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

2. Town: Nokha (Water Supply and Wastewater Sub Project)**Contractor: M/s MCPL – PRGL JV****Duration: 1st April 2024 to 30th September 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2024	0	0	0	0
May 2024	0	0	0	0
June 2024	0	0	0	1
July 2024	0	0	0	0
August 2024	0	0	0	0
September 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	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.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

3. Town: Bharatpur (Wastewater Sub project)**Contractor: M/s SMCC – AG JV****Duration: 1st April 2024 to 30th September 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2024	0	0	1	0
May 2024	0	0	1	0
June 2024	0	0	1	0
July 2024	0	0	1	0
August 2024	0	0	1	0
September 2024	0	0	1	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	April 2024	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.
2.	May 2024	1	Minor	
3.	June 2024	1	Minor	
4.	July 2024	1	Minor	
5.	August 2024	1	Minor	
6.	Sept 2024	1	Minor	

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

4. Town: Jodhpur (Wastewater Sub Project)**Contractor: M/s Eagle Infra India Ltd.****Duration: 1st April 2024 to 30th September 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2024	0	0	0	0
May 2024	0	0	0	0
June 2024	0	0	0	0
July 2024	0	0	0	0
August 2024	0	0	0	0
September 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

5. Town: Sagwara (Water Supply & Wastewater Sub Project)**Contractor: M/s Eagle Infra India Ltd.****Duration: 1st April 2024 to 30th September 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2024	0	0	0	0
May 2024	0	0	0	0
June 2024	0	0	0	0
July 2024	0	0	0	0
August 2024	0	0	0	0
September 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

6. Town: Dungarpur (Water Supply & Wastewater Sub Project)**Contractor: M/s Eagle Infra India Ltd.****Duration: 1st April 2024 to 30th September 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2024	0	0	0	0
May 2024	0	0	0	0
June 2024	0	0	0	1
July 2024	0	0	0	0
August 2024	0	0	0	0
September 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	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.
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

7. Town: Bundi (Water Supply & Wastewater Sub Project)**Contractor: M/s. Khilari Infrastructure Pvt. Ltd.****Duration: 1st April 2024 to 30th September 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2024	0	0	0	0
May 2024	0	0	0	0
June 2024	0	0	0	0
July 2024	0	0	0	0
August 2024	0	0	0	0
September 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

8. Town: Nathdwara (Water Supply Sub project)**Contractor: M/s Khilari Infrastructure Pvt. Ltd.****Duration: 1st April 2024 to 30th September 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2024	0	0	0	0
May 2024	0	0	0	0
June 2024	0	0	0	0
July 2024	0	0	0	0
August 2024	0	0	0	0
September 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

9. Town: Nimbahera (Water Supply Sub project)**Contractor: M/s Khilari Infrastructure Pvt. Ltd.****Duration: 1st April 2024 to 30th September 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2024	0	0	0	0
May 2024	0	0	0	0
June 2024	0	0	0	0
July 2024	0	0	0	0
August 2024	0	0	0	0
September 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

10.Town: Bundi (Drainage)**Contractor: M/s RBI – PL JV****Duration: 1st April 2024 to 30th September 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2024	0	0	0	0
May 2024	0	0	0	0
June 2024	0	0	0	0
July 2024	0	0	0	0
August 2024	0	0	0	0
September 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

11.Town: Bhawani Mandi (Drainage)**Contractor: M/s RBI – PL JV****Duration: 1st April 2024 to 30th September 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2024	0	0	0	0
May 2024	0	0	0	0
June 2024	0	0	0	0
July 2024	0	0	0	0
August 2024	0	0	0	0
September 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

12.Town: Ratangarh (Drainage)**Contractor: M/s RBI – PL JV****Duration: 1st April 2024 to 30th September 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2024	0	0	0	1
May 2024	0	0	0	0
June 2024	0	0	0	0
July 2024	0	0	0	0
August 2024	0	0	0	0
September 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2024	1	Minor	EHS officer of contractor provided awareness training to whole team on importance of PPEs and Health and Safety along with corrective actions to prevent similar incidents.
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

13.Town: Nawalgarh (Drainage)**Contractor: M/s RGI - RBI PL JV****Duration: 1st April 2024 to 30th September 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2024	0	0	0	0
May 2024	0	0	0	0
June 2024	0	0	0	0
July 2024	0	0	0	0
August 2024	0	0	0	0
September 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

14.Town: Bharatpur (City Beautification Sub Project)**Contractor: M/s Khandelwal Construction****Duration: 1st April 2024 to 30th September 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2024	0	0	0	0
May 2024	0	0	0	0
June 2024	0	0	0	0
July 2024	0	0	0	0
August 2024	0	0	0	0
September 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

15.Town: Barmer (Wastewater Sub Project)**Contractor: M/s GCKC Projects and Works PVT Ltd****Duration: 1st April 2024 to 30th September 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2024	0	0	0	0
May 2024	0	0	0	0
June 2024	0	0	0	0
July 2024	0	0	0	0
August 2024	0	0	0	0
September 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

Details of first aid cases-

Sr.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

16.Town: Balotra (Water Supply & Wastewater Sub Project)**Contractor: M/s GCKC Projects and Works PVT Ltd****Duration: 1st April 2024 to 30th September 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2024	0	0	0	0
May 2024	0	0	0	0
June 2024	0	0	0	0
July 2024	0	0	0	0
August 2024	0	0	0	0
September 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

17.Town: Jaisalmer (City Beautification Sub Project)**Contractor: M/s D.B. infratech, Mumbai****Duration: 1st April 2024 to 30th September 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2024	0	0	0	0
May 2024	0	0	0	0
June 2024	0	0	0	0
July 2024	0	0	0	0
August 2024	0	0	0	0
September 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

18.Town: Sagwara (City Beautification Sub Project)**Contractor: M/s D.B. infratech, Mumbai****Duration: 1st April 2024 to 30th September 2024**

Month	Nos. of Accident cases	Nos. of Incident Cases	Nos. of Near miss cases	Nos. of first aid cases
April 2024	0	0	0	0
May 2024	0	0	0	0
June 2024	0	0	0	0
July 2024	0	0	0	0
August 2024	0	0	0	0
September 2024	0	0	0	0

Details of Accident cases-

S.No.	Month	Number of Accident cases	Nature of Accident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Incident cases-

S.No.	Month	Number of Incident cases	Nature of Incident	Action taken
1	April 2024	0	0	0
2	May 2024	0	0	0
3	June 2024	0	0	0
4	July 2024	0	0	0
5	August 2024	0	0	0
6	September 2024	0	0	0

Details of Near miss cases-

S.No.	Month	Number of near miss cases	Nature of near miss and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

Details of first aid cases-

S.No.	Month	Number of first aid cases	Nature of first aid cases and their number	Action taken
1.	April 2024	0	0	0
2.	May 2024	0	0	0
3.	June 2024	0	0	0
4.	July 2024	0	0	0
5.	August 2024	0	0	0
6.	September 2024	0	0	0

***** End of Report *****

