



# Environmental Monitoring Report

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**PUBLIC**

Semestral Report: June 2024 - November 2024  
August 2025

## India: Kolkata Environmental Improvement Investment Program-Tranche 3

Prepared by The Kolkata Municipal Corporation (KMC), Kolkata for the Asian Development Bank (ADB).

**Asian Development Bank**

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# **Semi Annual Environmental Monitoring Report**

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**ADB Loan Number 3689-IND**

**Period Covered: June 2024 to November 2024**

**December 2024**

**IND: KOLKATA ENVIRONMENTAL IMPROVEMENT  
INVESTMENT PROGRAM (KEIIP) – Project 3**

Prepared by Project Management Unit, Kolkata Environmental Improvement Investment Program, Kolkata Municipal Corporation, Government of West Bengal for Asian Development Bank



**KOLKATA ENVIRONMENTAL  
IMPROVEMENT INVESTMENT PROGRAM  
(KEIIP) – PROJECT 3**

**PROJECT MANAGEMENT UNIT**

**12<sup>th</sup>**

**SEMI ANNUAL ENVIRONMENTAL MONITORING REPORT**

**TRANCHE 3**

**ADB Loan 3689-IND**

**(Period June to November 2024)**

**June 2024**



**KOLKATA MUNICIPAL CORPORATION**

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## ABBREVIATIONS

AAQS	-	Ambient Air Quality Standard
ADB	-	Asian Development Bank
ASI	-	Archaeological Survey of India
BIS	-	Bureau of Indian Standards
BOD	-	Biochemical Oxygen Demand
CBO	-	Community Based Organization
COD	-	Chemical Oxygen Demand
CPCB	-	Central Pollution Control Board
CPHEEO	-	Central Public Health and Environmental Engineering Organisation
CTE	-	Consent to Establish
CTO	-	Consent to Operate
CW	-	Canal Water
DG	-	Diesel Generator
DO	-	Dissolved Oxygen
DPR	-	Detailed Project Report
DSC	-	Design and Supervision Consultants
DWF		Dry Weather Flow
KMC	-	Kolkata Municipal Corporation
EA	-	Executing Agency
EARF	-	Environmental Assessment and Review Framework
EIA	-	Environmental Impact Assessment
EMP	-	Environmental Management Plan
GRC	-	Grievance Redressal Committee
GRM	-	Grievance Redress Mechanism
GW	-	Groundwater
HC	-	Hydrocarbons
IEE	-	Initial Environmental Examination
INR	-	Indian National Rupee
KEIP	-	Kolkata Environmental Improvement Project
KEIIP		Kolkata Environmental Improvement Investment Program
KMC	-	Kolkata Municipal Corporation
KMDA	-	Kolkata Metropolitan Development Authority
LPG	-	Liquefied Petroleum Gas
MoEFCC	-	Ministry of Environment and Forest & Climate Change, Government of India
NAAQS	-	National Ambient Air Quality Standards
NIOSH	-	National Institute of Occupational Health

NGO	-	Non - Government Organization
O&M	-	Operation and Maintenance
PMC	-	Project Management Consultant
PMU	-	Project Management Unit
PS	-	Pumping Station
REA	-	Rapid Environmental Assessment
ROW	-	Right of Way
RP	-	Resettlement Plan
S & D	-	Sewage & Drainage
SEIAA	-	State Level Environmental Impact Assessment Authority
SPM	-	Suspended Particulate Matter
SPS	-	Safeguard Policy Statement
STP	-	Sewage Treatment Plant
SWF	-	Storm Water Flow
SW	-	Surface Water
TDS	-	Total Dissolved Solids
TMP	-	Traffic Management Plan
TSS	-	Total Suspended Solids
UFW	-	Unaccounted For Water
USD	-	US Dollar
WBPCB	-	West Bengal Pollution Control Board
WTP	-	Water Treatment Plant

## I. INTRODUCTION

### A. Background

1. Kolkata Environmental Improvement Project (KEIP) was a key urban infrastructure initiative of the Kolkata Municipal Corporation (KMC) funded by Asian Development Bank (ADB) since 2000 which succeeded in improvement of the urban environment and quality of life in parts (mainly added areas) of KMC area. On completion of the project, both KMC & ADB agreed to continue their combined effort to improve further basic urban municipal infrastructures services of Kolkata through a multi - tranche financing program (MFF) of US \$400 million - 'Kolkata Environmental Improvement Investment Program' (KEIIP). Figure in **Appendix 1** shows the areas of Kolkata considered to be taken up under KEIIP Tranche 1, 2 & 3. ADB has released the necessary fund for implementation. The total investment duration for Tranche 1, 2 & 3 is from 2014 to 2022. Tranche 3 sub projects commenced during first quarter of 2019 and will be completed by 2024. Following subprojects have been included in Tranche 3 –

**SD-27R:** Improvement of S&D network and construction of a pumping station in Alipore body guard line premises in ward 74

**SD-28:** Construction of Sewage Treatment Plan (45 MLD) near WBSETCL, Joka

**SD-29:** Construction of Sewage Treatment Plant (40 MLD) at Bank Plot, MG road, Joka

**SD-30R:** Construction of Sewage Treatment Plant (30 MLD) at Rajpur-Sonarpur

**SD-31LOT-1** -Development of S&D network in Churial extension PS catchment and Diamond Park catchment and construction of Churial extension pumping station (annex) in Borough XVI (part of ward 124, 143 and 144).

**SD31R2** –Development of S&D network in Bakrahat Road catchment and Laying of RCC sewer line along Bakrahat Road and DH Road by microtunnelling and cut & cover method

**SD – 32:** Improvement of S&D system in Mukundapur area (part of ward 109) including construction of pumping station at Mukundapur area (Ward 109)

**SD – 34:** Construction of two new pumping stations near Lalababu Nikashi and Bagjola Canal and within Behala node C premises, Shakuntala Park

2. The main objective of the Program is to improve service quality and operational sustainability of increased water supply and sewerage in 20% of the KMC area. The Investment Program also aims towards increase in operational efficiency and scale of water supply, sewerage and drainage services in 5% of KMC area.

3. The Program output comprises of:

- ✓ rehabilitation of inefficient and outdated water supply assets;
- ✓ continued extension of sewerage to newly developed areas and
- ✓ further development of financial and project management capacity.

4. The Program is being carried out by the Govt. of West Bengal (GoWB) acting through KMC as the Executing Agency (EA). Sub project location map for **Tranche 3 (Project 3)** is shown in **Appendix 1**.

## **B. Project & Report Purpose**

5. The environmental impacts of the sub projects under Tranche 3 were assessed through Initial Environmental Examination (IEE), prepared according to ADB Safeguard Policy (SPS 2009) and have been classified as environmental assessment category B<sup>1</sup> by ADB.

6. This report is the 12<sup>th</sup> Semi Annual Environment Monitoring Report (SEMR) covering period from June 2024 to November 2024 and describes the implementation of the environmental management plan (EMP) in respect of each subproject of Tranche 3 as laid down in the approved IEE.

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<sup>1</sup> some negative impacts but less significant than category A as per SPS 2009

## II. IMPLEMENTATION PROGRESS

### A. Status of Subprojects under Tranche 3

7. Total eight packages of Sewerage and Drainage have been considered under Tranche 3. Out of which 3 are STP projects<sup>2</sup>, 4 projects include S&D network with pumping station<sup>3</sup> and 1 package includes laying of RCC sewer line<sup>4</sup>. The summary of subprojects (packages) under Tranche 3 including their work components, starting date and schedule date of completion, physical progress and progress of implementation of work components as on 30<sup>st</sup> November 2024 is presented in table 1. Till date (30<sup>st</sup> November, 2024) Contract has been awarded for all the 8 contract packages. All the subprojects are in implementation stage.

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<sup>2</sup> SD-28, SD-29 & SD-30

<sup>3</sup> SD-32

<sup>4</sup> SD-31 (Lot-2)

**Table 1 : Summary of Subprojects under KEIIP Tranche 3 (on 30<sup>th</sup> November,2024)**

Package Name and No.	Work components	Start date & Target date of completion	% Physical Progress as on 30 <sup>th</sup> November, 2024	Status off progress of work up to 30 <sup>th</sup> November, 2024
<b>SD-27R:</b> Improvement of S&D network and construction of a pumping station in Alipore body guard line premises in ward 74	<ul style="list-style-type: none"> <li>Improvement of S&amp;D network</li> <li>Construction of a pumping station in Alipore body guard line premises</li> </ul>	Start date-20.11.19 Date of completion 15.12.2022	100	RCC pipe laying work completed upto 2890 m out of total 2950 m. MS 1000 mm dia pumping main laying via 1 km open cut and micro tunnelling method completed. Construction of 1 no. of pumping station completed, finishing work in progress. House Drainage Connection completed (total 70 numbers).
<b>SD-28:</b> Construction of Sewage Treatment Plan (45 MLD) near WBSETCL, Joka	<ul style="list-style-type: none"> <li>Construction of Sewage Treatment Plan (45 MLD)</li> <li>Construction of Sewer line up to outfall</li> </ul>	Start date-08.03.19 Target date of completion 31.12.2024	68.60	Construction at all four SBR basins, substation, chlorine tank, chlorine tonner shade, centrifuge building, inlet and staff quarter is in progress.
<b>SD-29:</b> Construction of Sewage Treatment Plant (40 MLD) at Bank Plot , MG road , Joka	<ul style="list-style-type: none"> <li>Construction of Sewage Treatment Plan (40 MLD)</li> <li>Construction of Sewer line up to outfall</li> </ul>	Start date-08.03.19 Target date of completion 31.12.2024	76.50	Construction at all four SBR basins, substation, chlorination building, CCT, inlet, centrifuge building, staff quarter are in progress.
<b>SD-30R:</b> Construction of 23MLDSewage Treatment Plant at Rajpur – Sonarpur, Rania including Operation & Maintenance for 15 years	<ul style="list-style-type: none"> <li>Construction of Sewage Treatment Plan (23 MLD)</li> <li>Construction of Sewer line up to outfall</li> </ul>	Start date-04.05.21 Target date of completion 31.03.2025	98.80	Construction at all four SBR basins are in progress. Work in progress for administrative building.
<b>SD-31LOT-1</b> - Development of S&D network in	<ul style="list-style-type: none"> <li>Construction of S&amp;D network in Churial</li> </ul>	Start date-18.10.19 Target date of	68.7	RCC pipe laying work completed upto 8646 m out of total 14222 m.

Package Name and No.	Work components	Start date & Target date of completion	% Physical Progress as on 30 <sup>th</sup> November, 2024	Status off progress of work up to 30 <sup>th</sup> November, 2024
Churial extension PS catchment and Diamond Park catchment and construction of Churial extension pumping station (annex) in Borough XVI (part of ward 124, 143 and 144)	extension PS catchment and Diamond Park catchment <ul style="list-style-type: none"> <li>Construction of Churial extension pumping station</li> </ul>	completion 31.12.2024		Construction of wet well, screen chamber, inlet chamber are in different stages of progress. House Drainage Connection completed 570 numbers out of total 1000 numbers.
<b>SD-31R2</b> - Development of S&D network in Bakrahat road catchment (Ward 125) by cut & cover method and laying of RCC sewer line along Bakrahat road and DH road by micro tunneling	<ul style="list-style-type: none"> <li>RCC sewer line along Bakrahat Road and DH Road by micro tunneling and cut &amp; cover method</li> </ul>	Start date- 04.01.21 Target date of completion 31.03.2025	63	<ul style="list-style-type: none"> <li>S&amp;D Network laying work completed upto 1600 m out of total 2500 m.</li> <li>3Nos micro tunneling pit construction are completed at Bakrahat road.</li> <li>7Nos micro tunneling pit construction are completed at DH road</li> </ul>
<b>SD – 32:</b> Improvement of S&D system in Mukundapur area (part of ward 109) including construction of pumping station at Mukundapur & North Sreerampur	<ul style="list-style-type: none"> <li>Construction of pumping station at Mukundapur</li> <li>Improvement of S&amp;D system in Mukundapur area</li> </ul>	Start date 30.06.2021 Target date of completion 31.12.2024	98	RCC pipe laying work completed upto 7200 m out of total 7200 m. Laying of pumping main completed for 5500 m out of 5500 m. 40% of construction of pumping station is completed. Excavation completed for compensatory pond. House Drainage Connection completed 512 numbers out of total 514 numbers.
<b>SD – 34:</b> Construction of pumping station at Lalababu	<ul style="list-style-type: none"> <li>Construction of pumping station</li> </ul>	Start date- 29.11.19 Target date of	93	<ul style="list-style-type: none"> <li>Construction of pumping station at Behala Sakuntala Park completed and</li> </ul>

Package Name and No.	Work components	Start date & Target date of completion	% Physical Progress as on 30 <sup>th</sup> November, 2024	Status off progress of work up to 30 <sup>th</sup> November, 2024
Nikashi and Shakuntala Park	at Lalababu Nikashi <ul style="list-style-type: none"> <li>• Upgrading of existing pumping station at Shakuntala Park</li> </ul>	completion 31.12.2024		Commissioned on 21.09.2022. <ul style="list-style-type: none"> <li>• Sub-station building, inlet chamber, diversion of box drain has been completed. Well sinking is completed and DWF pumping main almost completed.</li> <li>• Procurement of electromechanical items including pumps almost completed and erection of 2nos transformers is completed. Screen chamber and pump house structure work are in progress.</li> </ul>

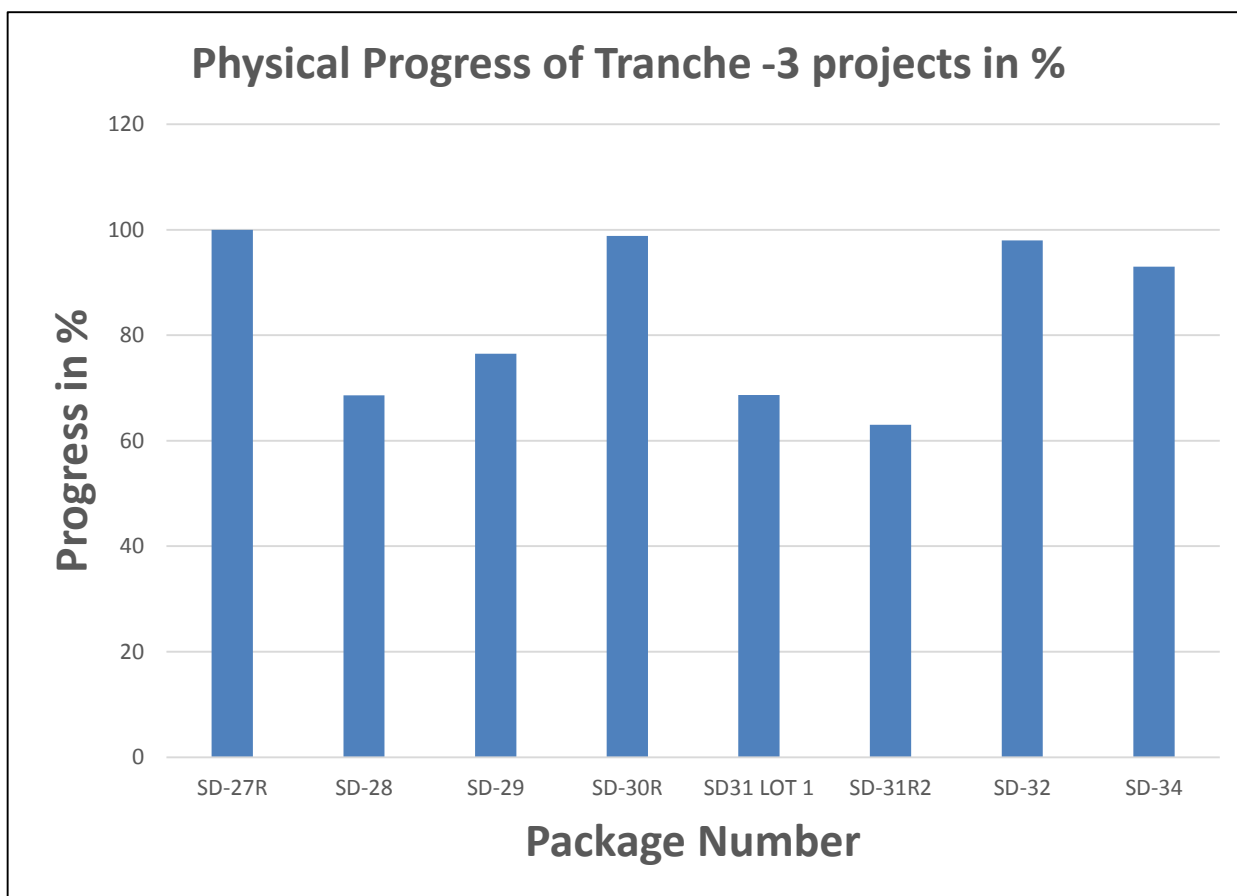


Figure 1 : Status of contract package wise progress of work under Tranche 3

**C. Compliance of Safeguard Loan Covenants**

8. The loan agreement for KEIIP Project 3 was signed on 3<sup>rd</sup> October 2018 and details are available in ADB website (<http://www.adb.org/projects/documents/loan-3689-ind-keiip>). **Table 2** provides a summary of compliance to the loan covenants related to environmental safeguards.

**Table 2 : Compliance of Loan Covenants – Environment part**

Serial no. Schedule 5 of loan agreement	Program Specific Covenants	Status / Issues
<b>Environment</b>		
7	The Borrower shall ensure or cause the EA to ensure that the preparation, design, construction, implementation, operation and decommissioning of the Project, and all projects' facilities comply with (i) all applicable laws and regulations	<b>Under compliance</b>  Documents have been prepared/ by complying all relevant State and National Laws, Safeguard Policy Statement (SPS 2009) of ADB, Environment Assessment Review Framework (EARF) for Tranche-3 program.

Serial no. Schedule 5 of loan agreement	Program Specific Covenants	Status / Issues
	<p>of the Borrower and the State relating to environment, health, and safety; (ii) the Environmental Safeguards; (iii) the EARF; and (iv) all measures and requirements set forth in the respective IEE and EMP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.</p>	<p>For <b>Tranche 3</b> project Initial Environmental Examination (IEE), Environment Management Plan (EMP) report prepared and approved by ADB.</p> <p>Initially, IEE for all packages have been submitted to ADB for disclosure in website. Further, IEE for subprojects SD-30R, SD-31R2, SD-32 have been updated in the month of October 2020 and IEE for SD32 and SD30R have been updated in April and May 2022 due to further change in scope of work and submitted to ADB.</p> <p>Statutory clearances (Consent to establish, NOC) from State Pollution controlboard have been obtained for proposed STPs (SD-28, SD-29, SD30R)<sup>5</sup></p> <p>Tree cutting permission has been obtained from DFO for SD–29 packages<sup>6</sup>, total 40 No. of tree felling already done. Compensatory plantation will be done after the completion of the project during green belt development around the STP.</p> <p>All measures and requirements as prescribed in IEE and EMP are being considered during implementation.</p> <p>Corrective or preventive action plans will be reflected in Environment Monitoring Report and project implementation authority will take care of such actions when required.</p>
<b>Human and Financial Resources to Implement Safeguards Requirements</b>		
11	<p>The Borrower shall ensure or cause the EA to ensure that all necessary budgetary and human resources to fully implement the EMP and RP, as required, are made available.</p>	<p><b>Complied</b></p> <p>Budgetary provisions have been included in EMP of Tranche 3 projects.</p> <p>An Environment Specialist appointed in Project Management Unit who is responsible for monitoring EMP compliances.</p>

<sup>5</sup> Refer appendix 4A & 4B

<sup>6</sup> Refer appendix 4C

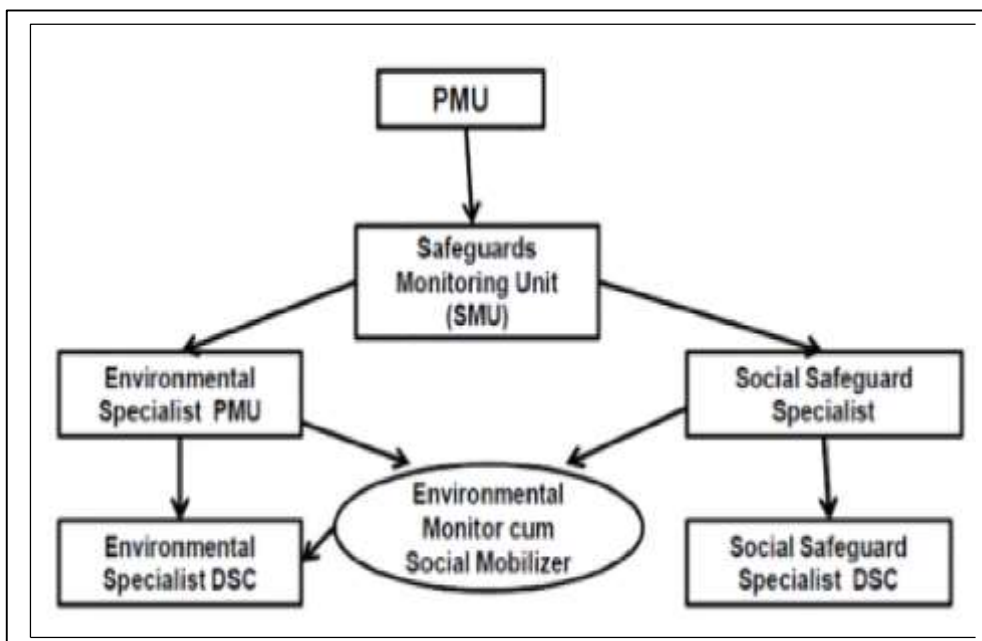
Serial no. Schedule 5 of loan agreement	Program Specific Covenants	Status / Issues
		Environmental Specialist and Environment Engineer of DSC for implementation of EMPs are in place for regular monitoring to ensure EMP compliance in the projects.
<b>Safeguards – Related Provisions in Bidding Documents and Works Contracts</b>		
12.	<p>The Borrower shall ensure, or cause the EA to ensure, that all bidding documents and contracts for Works contain provisions that require contractors to:</p> <p>(a) comply with the measures and requirements relevant to the contractor set forth in the IEE, the EMP, the RP and the IPP (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set out in a Safeguards Monitoring Report;</p> <p>(b) make available a budget for all such environmental measures;</p> <p>(c) provide the EA with a written notice of any unanticipated environmental risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, the RP or the IPP;</p> <p>(d) adequately record the condition of roads, agricultural</p>	<p><b>Under compliance</b></p> <p>(a) IEE and EMP are part of contract document. Approved IEE, EMP for Tranche 3 project is attached in Bidding documents. This process will be followed for all the sub projects within the present Tranche.</p> <p>In case of any change of scope, revised IEEs with EMP(s) and revised IEE log sheet will be prepared and corrective measures will be disclosed to the contractor and same will be reflected in the “Environment Monitoring Report”.</p> <p>Initially, IEE for all packages have been submitted to ADB for disclosure in website. Further, IEE for subprojects SD-30R, SD-31R2, SD-32 has been updated in the month of October 2020 and IEE for SD32 and SD30R have been updated in April and May 2022 due to further change in scope of work and submitted to ADB.</p> <p>(b) IEE indicates budgetary provisions for implementation of EMP.</p> <p>(c) During implementation of any sub project if additional impacts/risks arise due to change in scope/area, those will be reflected in the revised IEEs, EMPs and Environment Monitoring Report and accordingly project Executing Agency will inform the Construction Agency for taking relevant corrective measures.</p> <p>(d) Haul roads will be marked properly (by avoiding residential and agricultural land) before commencement of transportation of materials.</p>

Serial no. Schedule 5 of loan agreement	Program Specific Covenants	Status / Issues
	<p>land and other infrastructure prior to starting to transport materials and construction; and</p> <p>(e) Fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.</p>	<p>(e) Pathways, infrastructure and land which are likely to be affected for varying periods during implementation of the sub project will be restored by concerned construction agency before acceptance of the work. Restoration status will be reflected in post construction monitoring report.</p>
<b>Safeguards Monitoring and Reporting</b>		
13	<p>The Borrower shall cause the EA to do the following:</p> <p>(a) submit semi-annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission;</p> <p>(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, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and</p> <p>(c) Report any breach of compliance with the measures and requirements set forth in the EMPs, promptly after becoming aware of the breach.</p>	<p><b>Under compliance</b></p> <p>(a) This is 12<sup>th</sup> Semi-annual safeguard monitoring report on Environment for Project 3 (Tranche 3) for the period June, 2024 to November, 2024.</p> <p>(b) During implementation of any sub project, if additional impacts/risks arise due to change in scope /area, those will be reflected in revised IEEs with EMPs and accordingly PMU, KEIIP will inform the ADB such change along with corrective action plan which will be reflected in the subsequent Monitoring Reports. An addendum to the IEE, SOP- Health &amp; Safety Plan in response to COVID-19 has been disclosed in ADB website in June 2020</p> <p>(c) In case of any breach of compliance with the measures and requirements set forth in the EMP, EA will promptly inform ADB and suitable corrective action program will be planned /initiated.</p>
<b>Prohibited List of Investments</b>		
14	<p>The Borrower shall ensure or cause the State to ensure that no proceeds of the Loan are used to finance any activity included in the list of prohibited investment activities provided in Appendix 5 of the SPS.</p>	<p><b>Complied</b></p> <p>Under Tranche -3, there is no violation of prohibited investment activities as per ADB SPS (2009) Appendix 5.</p>

Serial no. Schedule 5 of loan agreement	Program Specific Covenants	Status / Issues
<b>Other Social Measures</b>		
15	The EA shall ensure that civil works contracts under 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 will also include clauses for termination in case of any breach of the stated provisions by the contractors.	<p>Complied in Bid documents and being complied during implementation.</p> <p>Provision is included (as per EMP &amp; BID document) to carry out HIV/AIDS awareness programs for construction contractor, application of all relevant labour laws for health and safety including child labour law and engagement of local labours (preferably from economically backward group) covering women labours.</p> <p>In case of any breach of provision, necessary corrective measures as per contract clauses shall be taken.</p> <p>All activities including awareness program will be reflected in “Monitoring Report”.</p>

**D. Implementation Arrangement**

9. The institutional arrangement follows KEIIP’s organizational structure and functions (**Figure 2**). The subproject is being implemented and monitored by the Project Management Unit (PMU). The KEIIP’s PMU Environment Officer is the overall in-charge on Environmental safeguard of the program. The responsibilities of the Environmental Specialist are to ensure that (i) environmental safeguard issues are addressed; (ii) EMP & approved Site Environment Management Plan (SEMP) is implemented; (iii) physical and non-physical activities under the subproject are monitored; and (iv) monitoring reports are prepared on time and submitted to ADB. Safeguard Monitoring Unit (SMU) of PMU is ensuring field level monitoring and safeguard documentation.



Notes: PMU = Project Management Unit; DSC = Design and Supervision Consultants

**Figure 2 : Institutional Arrangement – Safeguard**

10. PMU is supported by the Design and Supervision Consultants (DSC). An Environment Specialist and an Environment Engineer are in place to ensure: (i) EMP/ approved SEMP is implemented; (ii) surveys and measurements are undertaken; (iii) inspections and observations throughout the construction period are recorded to ensure that safeguards and mitigation measures are provided as intended; and (iv) statutory clearances and permits from government agencies/other entities are obtained prior to start of civil works.

11. The Safeguards Monitoring Unit will:

- (i) prepare the REA checklist, draft the EIA/IEE and arrange for disclosure of the approved EIA/IEE in the website
- (ii) Ensure that Environmental Clearance (EC), Consent to Establishment and Consent to Operate and other certificates, as required, are obtained in time from appropriate authorities and ensure compliances with conditions imposed.
- (iii) ensure incorporation of the EMP, environmental mitigation and monitoring measures into the contract documents
- (iv) monitor disclosure and public consultation arranged by DSC during IEE process and ensure that comments are reflected in the IEE report
- (v) ensure disclosure of information throughout the duration of the subproject through suitable visual means and publications
- (vi) provide necessary input for grievance redress
- (vii) approve contractor's proposed locations for construction work camps, storage areas, hauling roads, lay-down areas, and disposal areas for solid and hazardous wastes on recommendations of DSC
- (viii) guide the contractor for drawing up of Site Environmental Management Plan and to approve the same
- (ix) induct the contractor for taking up the construction following environmental and

social safeguards

- (x) Facilitate scheduled monitoring during implementation of the project.
- (xi) Carry out regular onsite monitoring and guide the contractor to adopt the required site management standard.
- (xii) ensure the required health and safety measures at work sites as per “Standard Operating Procedure” during COVID pandemic situation issued by DSC, KEIIP and approved by ADB
- (xiii) obtain in time and to review the monthly monitoring report of the contractors
- (xiv) prepare 6-monthly monitoring and EMP implementation report, including the status of project compliance, statutory clearances and relevant loan covenants, and submit the approved 6-monthly report to ADB and seek permission to disclose the same in the investment program website
- (xv) prepare monitoring report on post-construction activities by the contractors as specified in the EMP

12. The contractor’s responsibilities included:

- (i). Submission of Site environmental plan (SEP) covering proposed sites / locations for construction work camps, storage areas, haul roads, lay down areas, disposal areas for solid and hazardous wastes
- (ii). Compliance with all applicable legislation and be conversant with the requirements of the EMP/ approved SEMP;
- (iii). Briefing of his staff, employees, and Labours about the requirements of the EMP/ approved SEMP;
- (iv). Ensuring that all sub-contractors/suppliers engaged within the context of the contract comply with the environmental requirements of the EMP/ approved SEP. The contractor will be held responsible for non-compliance on their behalf;
- (v). Providing methodology/information for all activities requiring special attention as specified and/or requested by the DSC Environment Specialist during the duration of the Contract;
- (vi). Providing environmental awareness training to staff, employees, and Labours;
- (vii). Bearing the costs of any damages/compensation resulting from non-adherence to the EMP/ approved SEMP or written site instructions;
- (viii). Conducting all activities in a manner that minimizes disturbance to directly affected residents and the public in general, and foreseeable impacts on the environment.
- (ix). Ensuring that the PMU and DSC Environment Specialists are timely informed of any foreseeable activities that will require their expert input
- (x). Site specific health and safety plan in response to Coronavirus disease (COVID – 19) pandemic as per “Standard Operating Procedure” issued by KEIIP, PMU
- (xi). Site specific health and safety plan needs to be approved by Environment specialist of DSC/PMU and ADB

13. Environment Specialist of DSC visited all construction sites every month and arranged orientation training program for contractors (Tranche 3) and supervisory staff and instructed contractors for application of corrective action measures to mitigate impacts. **Table 3** shows detail of environment safeguard team for KEIIP.

**Table 3 : Details of KEIIP Environmental Safeguard Team**

Designation	Name and Contact Details
PMU, Environment officer	Name: Mrs. Runkini Ghosh Office Address: Kolkata Environmental Improvement Investment Program (KEIIP), 206 A. J. C Bose Road, Kolkata 700017 Phone:033 2283 0169 Email:pdkeip@gmail.com, o:rdas085@gmail.com
PMDSC, Environment Specialist	Name: Dr. Ardhendu Mitra Office Address: Kolkata Environmental Improvement Investment Program (KEIIP), 206 A. J. C Bose Road, Kolkata 700 017 Phone:033 2283 0044 Email: <a href="mailto:ardhendumitra@gmail.com">ardhendumitra@gmail.com</a> , <a href="mailto:keiipenvs@gmail.com">keiipenvs@gmail.com</a> ,

### III. ENVIRONMENTAL PROCEDURE REVIEW

#### A. Environmental Legal Requirement

14. For implementation of the project both national and state rules & regulations need to be followed. **Table 4** in next section indicates environment legal requirement for the projects under KEIIP.

#### B. Compliance with Environmental Legal Requirements

15. Before implementation of the project, compliance with environmental policy, law and legislation is necessary.

16. Under **Tranche 3** present status of Environment, forest and other clearances are mentioned below.

**Table 4: Status of Compliance with National and State Legal Requirements  
(up to 30<sup>th</sup> November, 2024)**

Package	Main package work	National and State Legal Requirement Applicable to the sub-project	Conditions of the Clearance/NOCs
SD-27R	Improvement of S&D network and construction of a pumping station in Alipore body guard	Water (Prevention and Control of Pollution) Act. 1974 The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987	NA

Package	Main package work	National and State Legal Requirement Applicable to the sub-project	Conditions of the Clearance/NOCs
	line premises in ward 74	In case of setting up diesel generator Consent to Establish (CTE) and Consent to Operate (CTO) from SPCB	
<b>SD-28</b>	Construction of Sewage Treatment Plant (45 MLD) near WBSETCL, Joka	Water (Prevention and Control of Pollution) Act. 1974 The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987 Consent to Establish (CTE) and Consent to Operate (CTO) to be obtained from SPCB Also for setting up diesel generator Consent to Establish (CTE) and Consent to Operate (CTO)	CTE (NOC) from West Bengal Pollution Control Board obtained. (refer appendix-4A)
<b>SD-29</b>	Construction of Sewage Treatment Plant (40 MLD) at Bank Plot , MG road , Joka	Water (Prevention and Control of Pollution) Act. 1974 The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987 Consent to Establish (CTE) and Consent to Operate (CTO) to be obtained from SPCB West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006- Tree felling permission Also for setting up diesel generator Consent to Establish (CTE) and Consent to Operate (CTO) from CPCB.	CTE (NOC) from West Bengal Pollution Control Board obtained. (Refer appendix-4B) Tree cutting permission has been obtained from Divisional Forest Officer vide permit No. 122/FUD/19 dated 19.02.2020 (Refer appendix-4C)
<b>SD-30R</b>	Construction of Rajpur-Sonarpur Sewage Treatment Plant (30 MLD)	Water (Prevention and Control of Pollution) Act. 1974 The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987 Consent to Establish (CTE) and Consent to Operate (CTO) to be obtained from SPCB Also for setting up diesel generator Consent to Establish (CTE) and Consent to Operate (CTO)	CTE (NOC) from West Bengal Pollution Control Board obtained (Refer appendix-4D).

Package	Main package work	National and State Legal Requirement Applicable to the sub-project	Conditions of the Clearance/NOCs
<b>SD-31 LOT-1 -</b>	Development of S&D network in Churial extension PS catchment and Diamond Park catchment and construction of Churial extension pumping station (annex) in Borough XVI (part of ward 124, 143 and 144).	Water (Prevention and Control of Pollution) Act. 1974 The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987 Also for setting up diesel generator Consent to Establish (CTE) and Consent to Operate (CTO)	NA
<b>SD-31R2</b>	Laying of RCC sewer line along Bakrahat Road and DH Road by micro tunneling and cut & cover method	Water (Prevention and Control of Pollution) Act. 1974 The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987 Also for setting up diesel generator Consent to Establish (CTE) and Consent to Operate (CTO)	NA
<b>SD – 32</b>	Improvement of S&D system in Mukundapur area (part of ward 109) including construction of pumping station at Mukundapur area	Water (Prevention and Control of Pollution) Act. 1974 The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987 Also for setting up diesel generator Consent to Establish (CTE) and Consent to Operate (CTO)	NA
<b>SD – 34</b>	Construction of pumping station at Lalababu Nikashi and upgrading of existing pumping station at Shakuntala Park	Water (Prevention and Control of Pollution) Act. 1974 The Air (Prevention and Control of Pollution) Act, 1981, as amended by Amendment Act, 1987 Also for setting up diesel generator Consent to Establish (CTE) and Consent to Operate (CTO)	NA

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#### IV. COMPLIANCE STATUS WITH THE ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN

17. Total eight packages of Sewerage and Drainage have been considered under Tranche 3. Out of which 3 are STP projects<sup>7</sup>, 4 projects include S&D network with pumping station<sup>8</sup> and 1 package includes laying of RCC sewer line<sup>9</sup>.
18. Till date (30<sup>th</sup> November) Contract has been awarded to all the packages and work in different stages of progress at different packages. Work is already being completed in one package i.e. SD 27R, therefore, its progress not discussed further in the subsequent tables.
19. Statutory clearances<sup>10</sup> have been issued by West Bengal Pollution Control Board for SD-28, SD-29 and SD 30R. Tree felling permission has been obtained from the Divisional Forest Officer for SD 29.
20. Environment Specialist from PMU carried out periodic site visits and monitoring of EMP implementation through mainly desk review of contractor's records and periodic site visit. Package wise summarised compliance to EMP implementation for the period June 2024 to November 2024 are presented in Table 5 of this report.
21. Contractors have been asked to submit site specific EMP before starting of each construction packages.
22. Baseline environmental monitoring have been conducted for all construction packages at the beginning of work and construction stage monitoring has been carried out during reporting period.
23. Over all, most of the sites are environmentally well managed. However, scopes for further improvement in site management measures have been explained to the contractors. Necessary action to minimize deficiencies in EMP implementation has been communicated verbally and also in writing to the concerned contractors.

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<sup>7</sup> SD-28, SD-29 & SD-30

<sup>8</sup> SD-32

<sup>9</sup> SD-31 (Lot-2)

<sup>10</sup> Consent to Establish (NOC)

**Table 5: Summarized Compliance to EMP Implementation for Tranche -3 Packages**

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
<b>Pre Construction - Design phase</b>												
1	Site clearance	Site preparation work including necessary clearance and permission.	<ul style="list-style-type: none"> <li>Tree felling requirement – site environment plan.</li> <li>NOC – paper documents from line agency.</li> <li>Method - Site observation and document</li> </ul>	Environment Officer of PMU and Environment Specialist of DSC	All Project locations, before commencement of physical work.	Tree felling not required.  NOC (CTE) issued by West Bengal Pollution Control Board for Consent to Establish (Refer Appendix 4A)	40 (forty) nos. of tree felling done in the STP premise, for that permission has already been obtained from Divisional Forest Officer vide permit	Tree felling not required.  NOC (CTE) issued by West Bengal Pollution Control Board for Consent to Establish.  (Refer Appendix 4D)	Tree felling not required.	Tree felling not required.	Tree felling not required.	Tree felling not required.

Sl. No .	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
			Checking.				No. 122/FUD/19 dated 19.02.2020 (Refer appendix - 4C) NOC (CTE) issued by West Bengal Pollution Control Board for Consent to Establish					

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
							(Refer Appendix 4B)					
2	Access to Site	<ul style="list-style-type: none"> <li>maintained via existing roads</li> <li>Involvement of local Traffic Department in the planning stages for road closure traffic diversion.</li> </ul>	<ul style="list-style-type: none"> <li>Involvement of traffic dept. Road closure planning</li> <li>Method observation</li> </ul>	Environment Officer of PMU and Environment Specialist of DSC	Specific project location	Site is accessible.	Working site is accessible.	Site is accessible.	Working site is accessible,	Site is accessible.	Site is accessible.	Site is accessible.

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
3	Affected utilities	Shifting of affected utilities like electric and telephone lines, cable lines, pipe lines etc.	<ul style="list-style-type: none"> <li>List of affected utilities if any, contact operators.</li> <li>Bid document to include requirement for a contingency plan for service interruptions.</li> <li>Method</li> </ul>	Environment Officer of PMU and Environment Specialist of DSC	Specific project location	Done as per requirement with the help of concerned authority.	Done as per requirement with the help of concerned authority.	Done as per requirement with the help of concerned authority.	Done as per requirement with the help of concerned authority.	Done as per requirement with the help of concerned authority.	Done as per requirement with the help of concerned authority.	Done as per requirement with the help of concerned authority.

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
			- Site observation and document checking.									
4	Water supply	Health risk due to damage in water supply line	<ul style="list-style-type: none"> <li>Schedule of closure.</li> <li>Delivery of KMC potable water to affected people.</li> <li>Method- Site observation</li> </ul>	Environment Officer of PMU and Environment Specialist of DSC	Specific project location	Not required as per present nature of work	Not required as per present nature of work	Not required as per present nature of work	Immediate repairing done with the help of concerned authority in case of any damage of water supply pipeline occur	Immediate repairing done with the help of concerned authority in case of any damage of water supply pipeline occur during the	Immediate repairing done with the help of concerned authority in case of any damage of water	Immediate repairing done with the help of concerned authority in case of any damage of water supply pipeline occur during the construction activity.

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
									during the construction activity.	construction activity.	supply pipeline occur during the construction activity.	
5	Traffic Management	Planning for Traffic Management	Ensure traffic management plan is part of contract documents and being implemented. Method - Site observation	Environment Officer of PMU and Environment Specialist of DSC	-	Not required as per present nature of work	Not required as per present nature of work	Not required as per present nature of work	Traffic management plan has been approved by DSC/PMU and Traffic	Traffic management plan has been approved by DSC/PMU and Traffic Police Dept.	Traffic management plan has been approved by DSC/PMU	Traffic management plan has been approved by DSC/PMU and Traffic Police Dept.

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
			and document checking.						Police Dept.		and Traffic Police Dept.	
6	Setting of construction camps, hot mix plants, stockpile areas, storage areas, and disposal areas.	<ul style="list-style-type: none"> <li>Planning for setting up construction camp, hot mix plants, stockpile areas, storage and disposal areas – to be submitted to DSC for prior</li> </ul>	List of selected location for construction work camps, hot mix plants, stockpile areas, storage areas, and disposal areas. Method - Site observation and document checking.	Environment Officer of PMU and Environment Specialist of DSC	Camp and other sites, before start of physical work & Continuous	Setting of hot mix plant is not required. Labour camp is located within project site	Setting of hot mix plant not required. site office has been established with labor hutment.	Setting of hot mix plant is not required. Labour camp is located within project site	Setting of hot mix plant is not required.	Setting of hot mix plant is not required.	Setting of hot mix plant is not required.	Setting of hot mix plant is not required.

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		approval <ul style="list-style-type: none"> <li>• Prioritize areas within or nearest possible vacant space in the sub-project location</li> <li>• No use of residential areas</li> <li>• No disposal of waste in water</li> </ul>										
7	Establishing Equipment	<ul style="list-style-type: none"> <li>• Choice of location</li> </ul>	List of selected location and facility.	Environment Officer of PMU and Environment Specialist of DSC	Proposed locations considered in the	Equipment lay down and storage areas have been	Equipment lay down	Equipment lay down and	Equipment lay down	Equipment lay down	Equipment lay	Equipment lay down and

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
	Lay-down and Storage Area <sup>11</sup>	for equipment lay-down and storage areas must take into account prevailing winds, distances to adjacent land uses, general on-site topography and water	Method - Site observation and document checking.		package. Before start of physical work & Continuous	designated, demarcated and fenced	and storage areas have been designated demarcated and fenced	storage areas have been designated, demarcated and fenced	and storage areas have been designated demarcated and fenced	and storage areas have been designated, demarcated and fenced	down and storage areas have been designated, demarcated and fenced	storage areas have been designated demarcated and fenced.

<sup>11</sup> Storage areas can be hazardous, unsightly and can cause environmental pollution if not designed and managed carefully

Sl. No.	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		erosion potential of the soil. • Storage areas shall be secure so as to minimize the risk of crime. • Away from school and direct residential areas • Fire prevention facilities must be										

Sl. No.	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		<p>present at all storage facilities</p> <ul style="list-style-type: none"> <li>• Proper storage facilities for the storage of oils, paints, grease, fuels, chemicals and any hazardous materials</li> <li>• These storage facilities (including</li> </ul>										

Sl. No.	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		g any tanks) must be on an impermeable surface • Staff must be aware of their potential impacts and follow the appropriate safety measures										
8	Educational of site	• Ensure that all site	Documentation –	Environment Officer of PMU and Environment Specialist of DSC	-	Training has been provided to	Training has	Training has been	Training has	Training has	Training has	Training has been

Sl. No .	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
	staff on general and Environmental Conduct <sup>12</sup>	personnel have a basic level of environmental awareness training <ul style="list-style-type: none"> <li>All employees must undergo safety training and wear the necessary protective clothing</li> </ul>	Training and awareness. Method - Materials and records on awareness training program			safety officer by DSC.	been provided to safety officer by DSC.	provided to safety officer by DSC	been provided to safety officer by DSC.	been provided to safety officer by DSC	has been provided to safety officer by DSC	provided to safety officer by DSC.

<sup>12</sup> These points need to be made clear to all staff on site before the subproject begin.

Sl. No.	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
	Construction											

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
	Materials Management – Sourcing	<ul style="list-style-type: none"> <li>Contractors shall prepare a source statement indicating the sources of all materials (including topsoil, sands, natural gravels, crushed stone, asphalt, clay liners etc), and submit</li> </ul>	<ul style="list-style-type: none"> <li>List of approved quarry sites and sources of materials</li> <li>Bid document to include requirement for verification of suitability of sources and permit for addition</li> </ul>	For mitigation - contractor, for monitoring - Environment Officer of PMU and Environment Specialist of DSC.	Quarries and material source areas. Daily visit by construction supervisor of DSC. Weekly visit by Construction Manager. Fortnight visit by Environment Specialist / Environmental Engineer.	Before construction at site, contractor has submitted list of construction materials and its sources	Before construction at site, contractor has submitted list of construction materials and its sources	Before construction at site, contractor has submitted list of construction materials and its sources	Before construction at site, contractor has submitted list of construction materials and its sources	Before construction at site, contractor has submitted list of construction materials and its sources	Before construction at site, contractor has submitted list of construction materials and its sources	Before construction at site, contractor has submitted list of construction materials and its sources

Sl. No.	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
	g <sup>13</sup>	these to the DSC for approval prior to commencement of any work. <ul style="list-style-type: none"> <li>• Use of Govt. approved quarry sites for procurement of materials</li> <li>• Verify suitability of all material sources and</li> </ul>	all quarry sites if necessary. <ul style="list-style-type: none"> <li>• Construction Contractor documentation</li> <li>• Method - Site observation and document checking.</li> </ul>									

Sl. No.	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		obtain approval of Investment from PMU/DSC										

<sup>13</sup> Materials must be sourced in a legal and sustainable way to prevent offsite environmental degradation.

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
10	Maintenance of Construction Camp	<ul style="list-style-type: none"> <li>Establishment of temporary camps with drinking water, sanitary and solid waste management arrangement</li> <li>Train employees in the storage and</li> </ul>	<ul style="list-style-type: none"> <li>Complaints from sensitive Receptors</li> <li>Water and sanitation facilities for employees</li> <li>Housekeeping – regular disposal of solid waste.</li> <li>Method – site</li> </ul>	For mitigation - contractor, for monitoring - Environment Officer of PMU and Environment Specialist of DSC.	Camp site. Same as above.	Satisfactory	Satisfactory	Satisfactory	Partial Satisfactory, need to be further improve.	Partial Satisfactory, need to be further improve.	Partial Satisfactory, need to be further improve.	Partial Satisfactory, need to be further improve.

Sl. No .	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		handling of materials <ul style="list-style-type: none"> <li>Remove all wreckage, rubbish, or temporary structures</li> </ul>	observation									

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
11	Landscaping and Aesthetics	<ul style="list-style-type: none"> <li>Removal of overburden and excavated material from working site and use / preservation of the same – as per mitigation measures</li> <li>Fencing of storage areas</li> </ul>	<ul style="list-style-type: none"> <li>Waste Management List</li> <li>Complaints from sensitive receptors</li> <li>PMU/PIU/DSC to report in writing that the necessary environmental restoration work has</li> </ul>	For mitigation - contractor, for monitoring - Environment Officer of PMU and Environment Specialist of DSC.	Project Locations. Same as above.	Maintained as per EMP	Maintained as per EMP	Maintained as per EMP	Maintained as per EMP	Maintained as per EMP	Maintained as per EMP	Maintained as per EMP

Sl. No .	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		<ul style="list-style-type: none"> <li>• Disposal of construction debris if any as per mitigation measures</li> <li>• Prepare and implement Waste Management List</li> <li>• Avoid stockpiling of excess excavated soils</li> </ul>	<p>been done.</p> <ul style="list-style-type: none"> <li>• Method – checking of records, visual observation</li> </ul>									

Sl. No .	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		<ul style="list-style-type: none"> <li>Coordinate with KMC for beneficial uses of excess excavated soils</li> </ul>										

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
12	Dust and Air Pollution <sup>14</sup>	<ul style="list-style-type: none"> <li>• Selection of materials storage area</li> <li>• Water sprinkling at construction site for arresting dust (if any during dry period)</li> <li>• Use tarpaulins to cover</li> </ul>	<ul style="list-style-type: none"> <li>• Location of stockpiles</li> <li>• Complaints from sensitive receptors</li> <li>• Monitoring data</li> <li>• Heavy equipment and machinery with air pollution control</li> <li>• Water sprinkling arrangement</li> </ul>	For mitigation - contractor, for monitoring - Environment Officer of PMU and Environment Specialist of DSC.	Project Locations, same as above.	Construction equipment and vehicles are being maintained in good condition, Pollution under control certificate has been renewed periodically for construction vehicles, sprinkling of water to minimize fugitive dust at site and covering up the material loaded vehicle need to be maintained at site	Construction equipment and vehicles are being maintained in good condition, Pollution under control certificate has been renewed periodically for	Construction equipment and vehicles are being maintained in good condition, Air quality monitoring is done on 31.08.2024	Mitigation measures have been adopted at work site to minimize air pollution like sprinkling of water during construction, covering	Construction equipment and vehicles are being maintained in good condition No monitoring conducted during the reporting period. Last monitoring was conducted on 28.08.2024	Construction equipment and vehicles are being maintained in good condition, Last monitoring was	Construction equipment and vehicles have been maintained in good condition Air quality monitoring is done on 07.07.2024 Refer Appendix 6 for Photograph

<sup>14</sup> Main causes of air pollution during construction are dust from vehicle movements and stockpiles, vehicle emissions and fires.

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		sand and other loose material- Reducing dust hazard • All vehicles and equipments mobilized to construction site and producing emission, have Pollution Under	<ul style="list-style-type: none"> <li>• Cover materials.</li> <li>• Method – checking of records, visual observation</li> </ul>			throughout the construction period  No monitoring conducted during the reporting period. Last monitoring was conducted on 30.05.2023	construction vehicles, sprinkling of water to minimize fugitive dust at site and covering up the material loaded vehicle need to be maintained at site throughout the construction	hours of monitoring	covering up of materials carrying vehicle, air quality monitoring has been carried out at pre construction stage and to be continued through		done on 28.05.2024  Refer Appendix 6 for Photographs of monitoring	hours of monitoring

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		Control certification • No fire wood burning is allowed on site • Carry out air quality monitoring					ion period No monitoring conducted during the reporting period. Last monitoring was conducted on 30.05.2023		out the construction period. PUC certificate for all vehicles engaged at site, portable toilet system  Air quality monitoring is done			

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
									on 23.11.2024-24.11.2024  Refer Appendix 6 for Photographs of monitoring			
13	Noise level	<ul style="list-style-type: none"> <li>Noise producing work needs to be conducted</li> </ul>	<ul style="list-style-type: none"> <li>Complaints from sensitive receptors</li> </ul>	For mitigation - contractor, for monitoring	Project Locations, same as above.	Noise level is within permissible level of commercial area	Maintenance of silence for all	Construction activities has been restricted	Construction activity has been	Construction activities has been	Construction activities	Construction activities has been restricted

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		<p>ed at day time</p> <ul style="list-style-type: none"> <li>Regular maintenance of noise producing equipment</li> <li>Horns not be used unless it is necessary to warn other road users</li> <li>Maintain maximum sound</li> </ul>	<ul style="list-style-type: none"> <li>Use of silencers in noise-producing equipment and sound barriers</li> <li>Monitoring data.</li> <li>Method – checking of records, visual observation</li> </ul>	- Environment Officer of PMU and Environment Specialist of DSC.		No monitoring conducted during the reporting period. Last monitoring was conducted on 30.05.2023	machinery is ensured. Base line noise level monitoring has been conducted near project sites. Construction activities has been restricted within	within a reasonable working hours  Noise quality monitoring is done on 31.08.2024	limited within reasonable working hours, all machineries are well maintained, baseline monitoring has already been carried out and monitoring	restricted within a reasonable working hours  No monitoring conducted during the reporting period. Noise quality monitoring is done on 28.08.2024	has been restricted within a reasonable working hours  Last monitoring was done on 28.05.2024	within a reasonable working hours  Noise quality monitoring is done on 06.07.2024-07.07.2024 Refer Appendix 6 for Photographs of monitoring

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		levels not exceeding 80 decibels (dbA) when measured at a distance of 10 m or more from the vehicle/s • At sensitive locations, enclosures provided around generator set or					a reasonable working hours.  Adjacent landowners will be informed about any noisy activities if needed during night time.  No monitoring conducted during		during construction stage to be continued throughout the construction period Noise quality monitoring is done on 23.11.2024 - 24.11.2024	monitoring	Refer Appendix 6 for Photographs of monitoring	

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							the reporting period. Last monitoring was conducted on 30.05.2023					
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Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		other noise producing machinery.							Refer Appendix 6 for Photographs of monitoring			
14	Storm water management	Arrangement of drainage of waste water and arresting of solid waste/silt from waste water generated at construction site	<ul style="list-style-type: none"> <li>• Areas for stockpiles, storage of fuels and lubricants and waste materials</li> <li>• Number of silt traps installed along drainages (in slope)</li> </ul>	For mitigation - contractor, for monitoring - Environment Officer of PMU and Environment Specialist of DSC.	Project location same as above	This site has been planned in such a way that efficient drainage has been achieved from site during monsoon	This site has been planned in such a way that efficient drainage has been achieved from site during	This site has been planned in such a way that efficient drainage has been achieved from site during monsoon	The site surface has been engineered and shaped in such a way that rapid and efficient evacuation	This site has been planned in such a way that efficient drainage has been achieved from site during	This site has been planned in such a way that efficient drainage has	Moderately satisfactory

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
			leading to water bodies. • Method – checking of records, visual observation.				monsoon		tion of runoff is achieved. No major ground disturbance has been observed till date, waste management practices has been maintained.	monsoon	been achieved from site during monsoon	

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation on SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
15	Water Quality 15	<ul style="list-style-type: none"> <li>Contractor to ensure run-off from vehicle or plant washing does not enter pond / Hooghly river</li> <li>Contractor to ensure every effort is made that any</li> </ul>	Non entry of pollutant in water body. Method – site observation	For mitigation - contractor, for monitoring - Environment Officer of PMU and Environment Specialist of DSC.	Project Locations	Not applicable as per present nature of work.	Applicable as per present nature of work.	Not applicable as per present nature of work.	Not applicable as per present nature of work.  During construction stage the monitoring is done on	Not applicable as per present nature of work  During construction stage the monitoring is done on 28.08.2024	Applicable as per present nature of work.  Last monitoring was done	applicable as per present nature of work. During construction stage the monitoring is done on 06.07.2024-07.07.2024 Refer Appendix 6 for the monitoring photographs of surface water

<sup>15</sup>Water quality is affected by the incorrect handling of substances and materials. Soil erosion and sediment is also detrimental to water quality. Mismanagement of polluted run-off from vehicle and plant washing and wind dispersal of dry materials into rivers and watercourses are detrimental to water quality.

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		chemicals or hazardous substances do not contaminate the soil, Hooghly river, or groundwater on site.							23.11.2024-24.11.2024 Refer Appendix 6 for the monitoring photographs of surface water		on 28.05.2024  Refer Appendix 6 for the monitoring photographs of surface water	
16	Conservation of Natural	<ul style="list-style-type: none"> <li>Contractor to ensure removal of only</li> </ul>	Tree felling requirement and afforestation after final	For mitigation - contractor, for	Project Locations	No tree cutting is required as per present nature of work.	40 (forty) nos. of tree felling was	No tree cutting was needed as per	No tree cutting as per present working	No tree cutting as per present	No tree cutting as per	No tree cutting as per present

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
	Environment	<p>trees that have been marked beforehand</p> <ul style="list-style-type: none"> <li>Contractor to immediately revegetate stripped areas</li> <li>Contractor to prohibit site staff from gathering firewood, fruits, plants,</li> </ul>	<p>design. Method – checking of records, visual observation</p>	<p>monitoring - Environment Officer of PMU and Environment Specialist of DSC.</p>			<p>done in the STP premises</p> <p>Compensatory plantation will be done after the completion of the project during green belt development around the STP.</p>	present working condition	condition	working condition	present working condition	working condition

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		crops or any other natural material on-site or in areas adjacent to the sites.										
17	Materials Management	<ul style="list-style-type: none"> <li>Contractor to ensure stockpiles do not obstruct natural water pathways.</li> <li>Contractor to cover</li> </ul>	Stockpile management. Method – checking of records, visual observation.	For mitigation - contractor, for monitoring - Environment Officer of PMU and Environment Specialist of DSC.	Stockpile / storage area	Stockpiling of materials has been done as per approved site plan.	Stockpiling of materials has been done as per approved site plan.	Stockpiling of materials has been done as per approved site plan.	Stockpiling of materials will be done as per approved site plan. Housekeeping need to improve.	Stockpiling of materials has been done as per approved site plan. Housekeeping need to improve further.	Stockpiling of materials has been done as per approved site plan. Housekeeping need to improve further.	Stockpiling of materials will be done as per approved site plan. Housekeeping need to improve further.

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		stockpiles exposed to windy conditions or heavy rain with vegetation, cloth, or tarps. <ul style="list-style-type: none"> <li>Contractor to ensure all concrete mixing take place on a designated, impermeable surface.</li> </ul>							Not Compliant further.		Not Compliant need to improve further.	

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		able surface.										
18	Occupational Health & safety	<ul style="list-style-type: none"> <li>Develop and implement site-specific Health and Safety (H&amp;S) Plan</li> <li>Use Personal Protective Equipment like helmet, gumboot, gloves, nose mask</li> </ul>	<ul style="list-style-type: none"> <li>Site-specific Health and Safety (H&amp;S) Plan</li> <li>Equipped first-aid stations;</li> <li>Medical insurance coverage for workers</li> <li>Number of accidents</li> </ul>	For mitigation - contractor, for monitoring - Environment Officer of PMU and Environment Specialist of DSC.	Project Locations	Site-specific Health and Safety (H&S) Plan has been followed during construction. Use of PPE among work has to be ensure all the time.	Site-specific Health and Safety (H&S) Plan has been followed during construction. Use of PPE among work has to be ensure all the time.	Site-specific Health and Safety (H&S) Plan will be followed during construction. Use of PPE among work has to be ensure all the time.	Site-specific Health and Safety (H&S) Plan will be followed during construction. Use of PPE among work has to be ensure all the time.	Site-specific Health and Safety (H&S) Plan will be followed during construction. Use of PPE among work has to be ensure all the time.	Site-specific Health and Safety (H&S) Plan will be followed during construction. Use of PPE among work has to be ensure all the time.	Site-specific Health and Safety (H&S) Plan will be followed during construction. Use of PPE among work has to be ensure all the time.

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameter s monitored & Monitoring method adopted	Responsib le for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Complia nce Status/ Explana tion SD 29	Complian ce Status/ Explanati on SD 30R	Compli ance Status/ Explan ation SD 31 LOT-1	Complia nce Status/ Explana tion SD 31R2	Com plian ce Statu s/ Expla natio n SD 32	Complian ce Status/ Explanati on SD 34
		and earplugs • H&S Training for all site personnel • Docume ntation of work-related accident s; • Designat e a safeguar d focal person and undertak e safeguar ds	<ul style="list-style-type: none"> <li>Supplies of potable drinking water;</li> <li>Record of H&amp;S orientati on training s</li> <li>Persona l protecti ve equipm ent's</li> <li>Sign boards for hazardo us areas such as</li> </ul>								work has to be ensure all the time.	

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameter s monitored & Monitoring method adopted	Responsib le for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Complia nce Status/ Explana tion SD 29	Complian ce Status/ Explanati on SD 30R	Compli ance Status/ Explan ation SD 31 LOT-1	Complia nce Status/ Explana tion SD 31R2	Com plian ce Statu s/ Expla natio n SD 32	Complian ce Status/ Explanati on SD 34
		orientati on by PMU/PI U <ul style="list-style-type: none"> <li>• Provide specific guidanc e for suitable PPE for every on-site work assignm ent</li> <li>• Ensure availabili ty of First aid box at all working sites and labour camp</li> </ul>	energiz ed electrica l devices and lines, service rooms. <ul style="list-style-type: none"> <li>• Method – checkin g of records, visual observa tion.</li> </ul>									

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameter s monitored & Monitoring method adopted	Responsib le for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Complia nce Status/ Explana tion SD 29	Complian ce Status/ Explanati on SD 30R	Compli ance Status/ Explan ation SD 31 LOT-1	Complia nce Status/ Explana tion SD 31R2	Com plian ce Statu s/ Expla natio n SD 32	Complian ce Status/ Explanati on SD 34
		<ul style="list-style-type: none"> <li>• Provide medical insurance coverage for workers;</li> <li>• Provide supplies of potable drinking water at working sites;</li> <li>• Provide H&amp;S orientation training to all new workers</li> </ul>										

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameter s monitored & Monitoring method adopted	Responsib le for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Complia nce Status/ Explana tion SD 29	Complian ce Status/ Explanati on SD 30R	Compli ance Status/ Explan ation SD 31 LOT-1	Complia nce Status/ Explana tion SD 31R2	Com plian ce Statu s/ Expla natio n SD 32	Complian ce Status/ Explanati on SD 34
		<ul style="list-style-type: none"> <li>• Mark and provide sign boards for hazardous areas such as energized electrical devices and lines</li> <li>• Disallow worker exposure to noise level greater than 85 dBA for a</li> </ul>										

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		duration of more than 8 hours per day without hearing protection.										

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
19	Social Impacts <sup>16</sup> , Community Health & safety, accessibility	<ul style="list-style-type: none"> <li>Plan truck routes (for carrying construction materials including pipes) to avoid narrow or congested roads and tourist sites</li> <li>Contractor to ensure</li> </ul>	<ul style="list-style-type: none"> <li>Traffic Management Strategy</li> <li>Complaints from sensitive receptors</li> <li>Number of signages placed at subproject location.</li> <li>Method – checking of</li> </ul>	For mitigation - contractor, for monitoring - Environment Officer of PMU and Environment Specialist of DSC.	Project Locations	Sight fencing done, project information board implemented at site, sufficient access maintained at site.	Sight fencing done, project information board implemented at site, sufficient access maintained at site.	Project information board implemented at site, sufficient access maintained at site	Need further improvement.	Need to be maintained.	Need further improvement.	Need further improvement.

<sup>16</sup> Regular communication between the Contractor and the interested and affected parties is important for the duration of the contract.

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		disruption of access for local residents is minimized • Contract or to restrict activities and movement of staff to designated construction areas • Contract or to provide	records, visual observation.									

Sl. No.	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		walkways and metal sheets where required to maintain access across for people and vehicles • Consideration of public safety - as per prescribed mitigation										

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
		measures • Contractors to ensure lighting on the construction site • Provide protective fencing around open trenches • Provide road signs and flag persons to warn • Schedule										

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameter s monitored & Monitoring method adopted	Responsib le for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Complia nce Status/ Explana tion SD 29	Complian ce Status/ Explanati on SD 30R	Compli ance Status/ Explan ation SD 31 LOT-1	Complia nce Status/ Explana tion SD 31R2	Com plian ce Statu s/ Expla natio n SD 32	Complian ce Status/ Explanati on SD 34
		transport and hauling activities during non- peak hours										

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
20	Socio cultural resources	<ul style="list-style-type: none"> <li>Strictly follow the protocol for chance archaeological finds in any excavation work</li> <li>Stop work immediately to allow further investigation if any finds are suspected</li> </ul>	Chances find protocol. Method - Checking of records	For mitigation - contractor, for monitoring - Environment Officer of PMU and Environment Specialist of DSC.	Project Locations	Not required till date. Instruction has been given	Not required till date. Instruction has been given	Not required till date. Instruction has been given	Not required till date. Instruction has been given	Not required till date	Not required till date	Not required till date. Instruction has been given

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Compliance Status/ Explanation SD 29	Compliance Status/ Explanation SD 30R	Compliance Status/ Explanation SD 31 LOT-1	Compliance Status/ Explanation SD 31R2	Compliance Status/ Explanation SD 32	Compliance Status/ Explanation SD 34
21	Employment generation	<ul style="list-style-type: none"> <li>The use of labor intensive construction measures will be used where appropriate</li> <li>Employ local (unskilled) labour if possible</li> <li>Training of</li> </ul>	Employment record. Method - Checking of records	For mitigation - contractor, for monitoring - Environment Officer of PMU and Environment Specialist of DSC.	Project Locations	Local labour is mostly engaged. Few outside skilled workers are also engaged.	Local labour is mostly engaged. Few outside skilled workers are also engaged.	Local labour is mostly engaged. Few outside skilled workers are also engaged.	Local Workers are mostly engaged at all working site. Refer appendix 5	Local labour is mostly engaged	Local labour is mostly engaged	Local Workers are mostly engaged at all working site. Refer appendix 5

Sl. No	Environmental Issues	Mitigation Activities and Method	Parameter s monitored & Monitoring method adopted	Responsib le for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 28	Complia nce Status/ Explana tion SD 29	Complian ce Status/ Explanati on SD 30R	Compli ance Status/ Explan ation SD 31 LOT-1	Complia nce Status/ Explana tion SD 31R2	Com plian ce Statu s/ Expla natio n SD 32	Complian ce Status/ Explanati on SD 34
		labor to benefit individuals beyond completion of the subproject										

**V ENVIRONMENTAL MONITORING AND EVALUATION**

24. In addition to desk reviews and site inspections, monitoring of selected environmental parameters have been conducted during the reporting period. The frequencies of the environmental monitoring activities are commensurate to the type and significance of the impacts. For **Tranche 3** subprojects, the parameters to be monitored are ambient air quality, noise levels and nearby surface water quality. SD-31R2

25. Construction stage air quality and noise level monitoring have been conducted for four number of packages i.e. SD 30R, SD-31LOT1, SD-31R2 and SD-34 during the reporting period (June to November 2024) and drinking water quality monitoring has been done for SD-31LOT1, SD-31R2 and SD-34.

26. Air quality monitoring results are shown in **Table 6** and comparison with standards has been presented in **Figure 3, Figure 4** and **Figure 5**.

**Table 6 : Ambient Air Quality Monitoring Results June 2024 to November 2024**

Constructi on Package No.	Monitoring location	Monitoring stage	Date of monitorin g	Parameters, µg/m3			
				PM10	PM2.5	SO2	NO2
<b>SD -28</b>	No monitoring was conducted during the reporting period						
<b>SD- 29</b>	No monitoring was conducted during the reporting period						
<b>SD-30R</b>	at STP location	Constructio n stage	31.08.202 4	35.4	23.5	12.0	19.6
<b>SD-31LOT1</b>	M.G. road, Pumping Station	Constructio n Stage	23.11.2024 4.11.202 4	93	58	9.4	36.7
<b>SD-31 R2</b>	Shaft No.4, Bakhrahat Road	Constructio n Stage	28.08.2024	76.10	30.34	19.26	43.75
<b>SD- 34</b>	Near project area, Laketown	Constructio n Stage	06.07.2024- 07.07.2024	57	18	5.2	23.7
<b>National Ambient Air Quality Standard (NAAQS)</b>				100	60	80	80

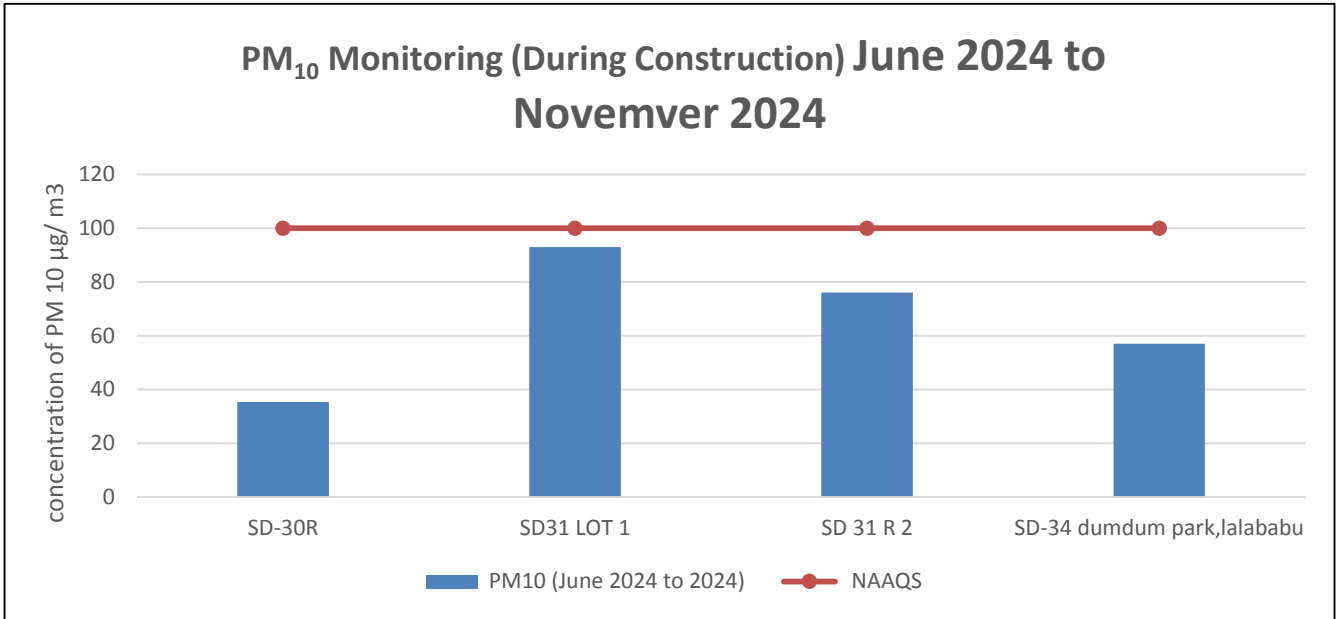


Figure 3: During Construction Air Quality Monitoring at Project Sites (Concentration of PM<sub>10</sub>)

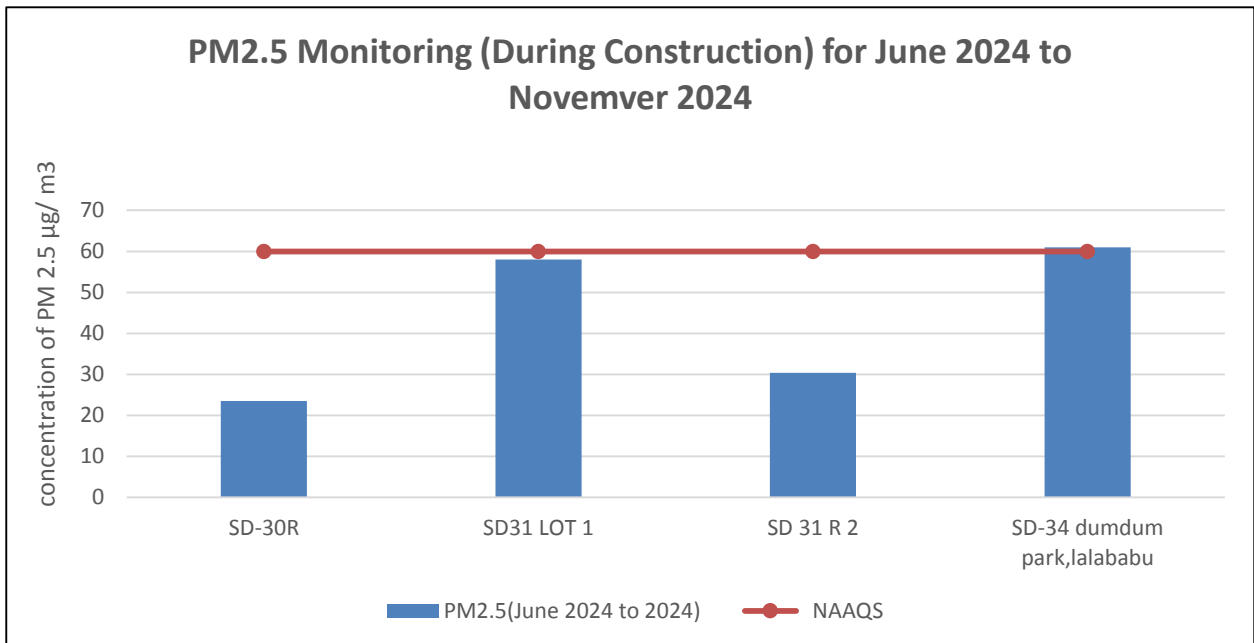
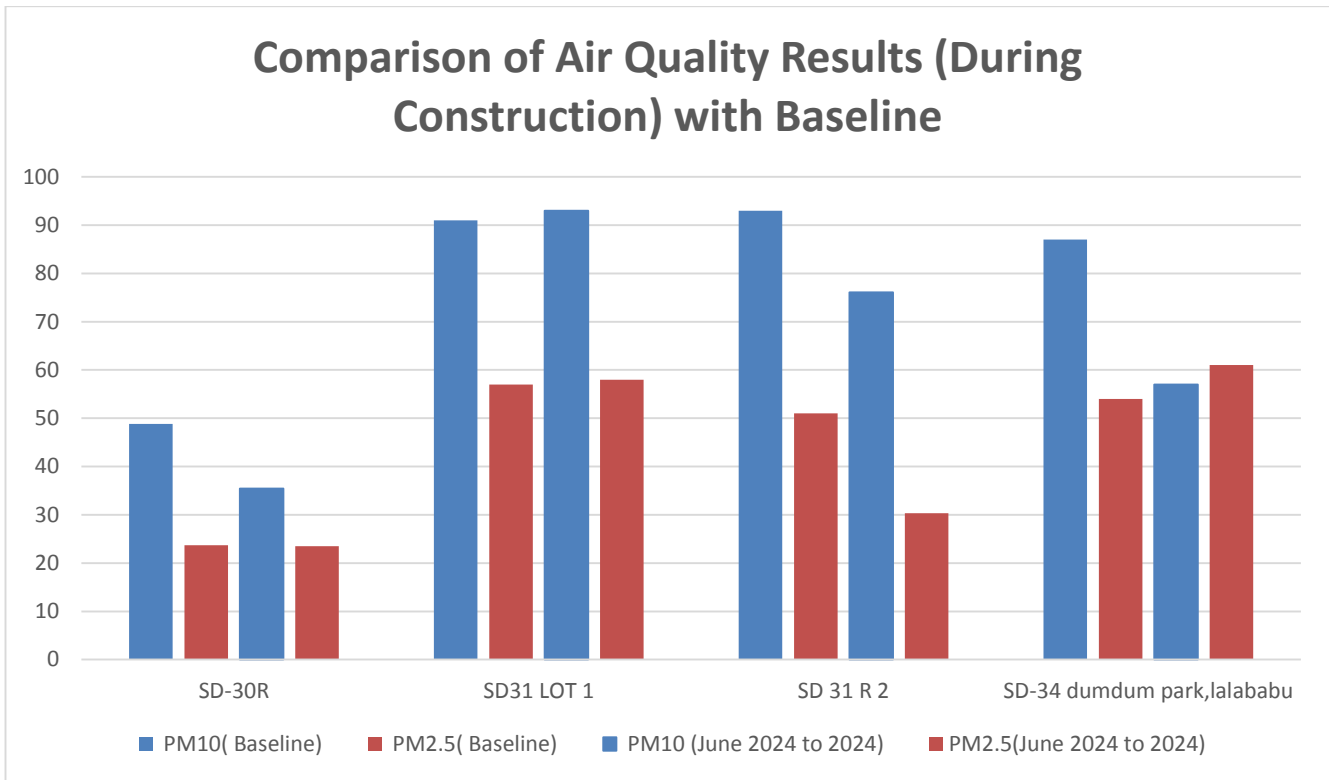


Figure 4: During Construction Air Quality Monitoring at Tranche - 3 Project Sites (Concentration of PM<sub>2.5</sub>)



**Figure 5: Comparison of During Construction Monitoring Results with Baseline**

26. By analysing the above results, it is noted that in June to Nov 2024, the concentration of PM<sub>10</sub> and PM<sub>2.5</sub> have not exceeded the permissible limit as set by NAAQS in all packages.

27. By comparing the results with Baseline values, it was observed that, the concentration of both the parameters were higher than their baseline values at package SD 30R, SD 31 Lot 1, SD 31R2 and SD 34 (Dum Dum Park). This is mainly resulting from dust particles arising from construction activities.

28. Contractors have been advised to take necessary action on dust suppression (during dry periods) by sprinkling of water whenever required so that ambient air quality can be maintained during the construction.

29. Noise quality monitoring results are shown in **Table 7** and comparison with standards has been presented in **Figures 6 and 7**.

**Table 7 : Noise Monitoring Status June 2024 to November**

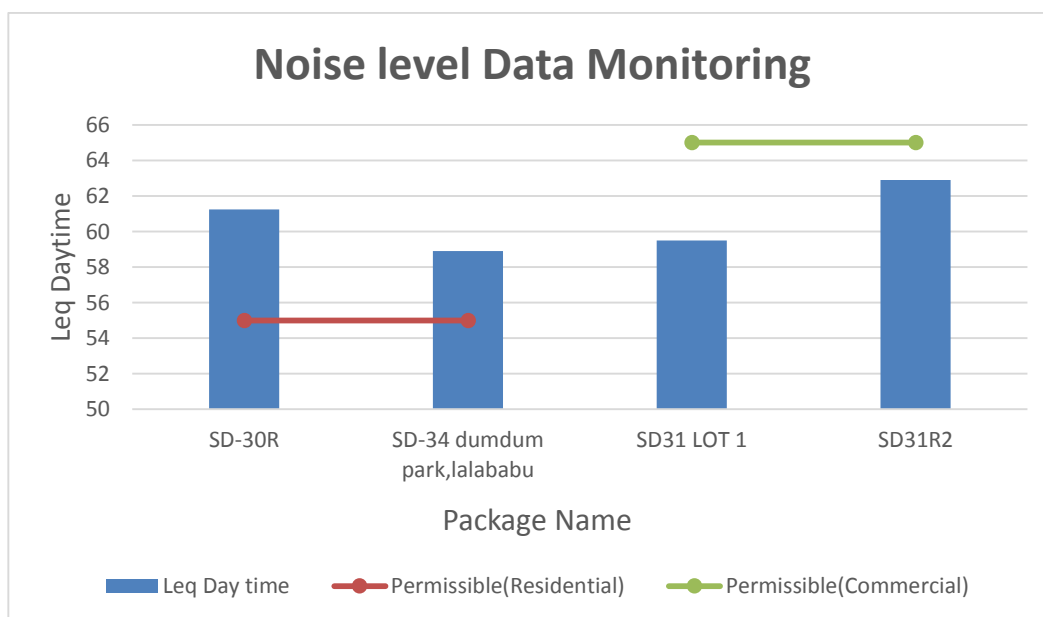
Package No.	Sampling Locations- Area	Implementation Stage	Date of Monitoring	Day Time Leq dB(A)	Night Time Leq dB(A)
SD -28	No monitoring was conducted during the reporting period				
SD- 29	No monitoring was conducted during the reporting period				
SD-30R	at STP site	Construction stage	31.08.2024	61.25	-

<b>SD-31LOT1</b>	M.G. road	Construction Stage	23.11.2024-24.11.2024	59.5	46.3
<b>SD-31 R2</b>	Shaft no. 4, Bakhrat Road	Construction stage	28.08.2024	62.90	-
<b>SD- 34</b>	Near project area, Laketown	Construction stage	06.07.2024-07.07.2024	58.9	46.8

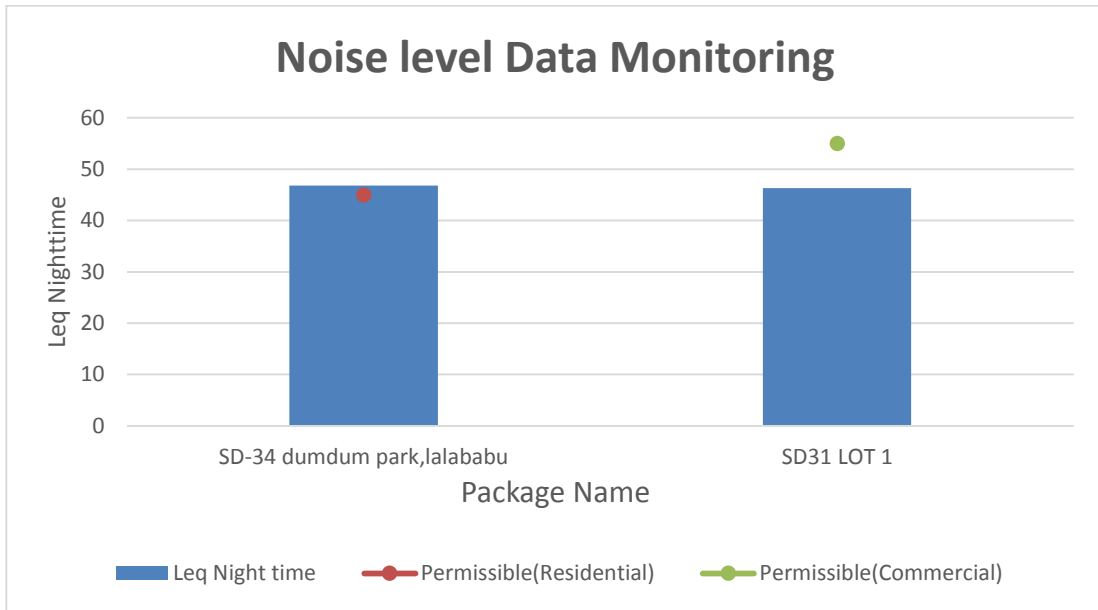
  

Code/Category	Leq Day Time dB(A) - Standard	Leq Night Time dB(A) - Standard	Note	Remarks
<b>A/Industrial</b>	75	70	<b>Day Time:</b> 6:00 Hr. to 22:00 Hr. <b>Night Time:</b> 22:00 Hr. to 6:00 Hr.	Except SD 31 LOT 1, SD 31R2 and SD 32 all other noise monitoring sites are considered under Residential Category.
<b>B/Commercial</b>	65	55		
<b>C/Residential</b>	55	45		
<b>D/Ecological-Sensitive</b>	50	40		

**Note: National level Central Pollution Control Board's, CPCB's (Govt. of India) guideline/ protocol used for sampling**



**Figure 6: During Construction Noise Level Monitoring at Tranche - 3 Project Sites (Day Time)**



**Figure 7: During Construction Noise Level Monitoring at Tranche - 3 Project Sites (Night Time)**

30. By analysing the results, it was found that for all these packages, during construction noise level values have within limit as set by CPCB.
31. During the reporting period, drinking water (supplied water) monitoring was conducted in three packages given in **Table 8** below. By comparing the result with BIS standard, it was found that, all the parameters are within the permissible limit in SD 32 and SD 34 packages, while exceedence of TDS, hardness and alkalinity were observed in SD 31 Lot 1 package.
32. A performance monitoring fact sheet has been prepared to facilitate tracking and quick reference on environmental monitoring of Tranche 3 subproject packages given in **Table 9** below.

**Table 8 : Water Monitoring Status June 2024 to November 2024(Drinking Water)**

Sl.No.	Parameters	Unit	Contract Package: Trance -3			National Standards for Drinking Water- BIS 10500-2012 Acceptable limit (Maximum permissible limit)
			Results (During Construction) Construction Stage In June 2024 to November 2024			
			SD- 31LOT1	SD- 31R2	SD- 34	
1	pH	-	7.81	7.44	7.92	6.5-8.5
2	Colour	Hazan Unit	<5	-	-	5 (15)
3	Taste and Odor	-	Agreeable	-	Agreeable	Agreeable
4	Turbidity	NTU	<1.0	<1.0	<1.0	1 (5)
5	TDS	Mg/l	564	136	34	500 (2000)
6	Total Hardness	Mg/l	308.9	40.3	15.7	200 (600)
7	Chloride	Mg/l	133.1	28.9	7.7	250 (1000)
8	Alkalinity	Mg/l	289.1	-	23.0	200 (600)
9	Sulphate	Mg/l	-	-	2.7	200 (400)
10	Nitrate	Mg/l	-	<0.1	<0.5	45
11	Fluoride	Mg/l	-	<0.04	<0.1	1 (1.5)
12	Calcium	Mg/l	71.3	12.1	3.1	75(200)
13	Iron	Mg/l	0.38	0.14	<0.05	0.3

**Table 9 : Performance Fact Sheet for Required Environmental Consents/Clearances of KEIIP Tranche 3 (Package-wise)**

Sl. No.	Package No.	Name of Contractor	EMP Part of contract Document(Yes/ No)	Environmental Consents / Clearances Required				Remarks
				Tree Cutting	i. Crusher ii. Batching Plant iii. Hot mix plant	Diesel Generator Set	Pollution Under Control Certificates (PUC) for Contractor's Vehicles	
1	SD -27R	RG- JYOTI JV	Yes	Not required	Not Required as per present work program	Using green generator	Submitted by the contractor	Satisfactory
2	SD -28	SNET-SSG JV	Yes	Not required	NR as per present work program	Using green generator	Submitted by the contractor	Partial Satisfactory
3	SD -29	SNET-Eagle JV	Yes	Required and permission has been obtained from DFO Compensatory plantation will be done after the completion of the project during	NR as per present work program	Using green generator	Submitted by the contractor	Partial Satisfactory

Sl. No.	Package No.	Name of Contractor	EMP Part of contract Document(Yes/ No)	Environmental Consents / Clearances Required				Remarks
				Tree Cutting	i. Crusher ii. Batching Plant iii. Hot mix plant	Diesel Generator Set	Pollution Under Control Certificates (PUC) for Contractor's Vehicles	
				greenbelt development around the STP.				
4	SD -30R	TEPL-SNET JV	Yes	Not required	Not Required as per present work program	Using green generator	Submitted by the contractor	Satisfactory
5	SD -31 LOT-1	Simplex Infrastructure ltd	Yes	Not required	Not Required as per present work program	Using green generator	Submitted by the contractor	Partial Satisfactory
6	SD -31 R-2	A TO Z ADHUNIK JV	Yes	Not required	Not Required as per present work program	Using green generator	Submitted by the contractor	Partial Satisfactory
7	SD -32	Laxmi-WM JV	yes	Not required	Not Required as per	Yet to arrange.	Submitted by the contractor	Partial Satisfactory

Sl. No.	Package No.	Name of Contractor	EMP Part of contract Document(Yes/ No)	Environmental Consents / Clearances Required				Remarks
				Tree Cutting	i. Crusher ii. Batching Plant iii. Hot mix plant	Diesel Generator Set	Pollution Under Control Certificates (PUC) for Contractor's Vehicles	
					present work program			
8	SD – 34	Ramky infrastructures Ltd.	Yes	Not required	Not Required as per present work program	Yet to arrange.	Submitted by the contractor	Partial Satisfactory

## VI. CONSULTATIONS AND DISCLOSURES CONDUCTED

33. As per approved IEE, consultations and disclosure will be a continuous process throughout Tranche 3 project implementation involving public consultations and focus group discussions. Informal consultations were carried out with local people, pedestrian, etc.
34. Types of consultations and disclosure conducted in active packages of Tranche 3 during June 2024 to November 2024 are presented in Table 10 of this report.

**Table 10: Types of consultations and disclosure conducted in different packages of Tranche – 3**

Type of Consultation/ Disclosure	Location	Target Participants	Responsible Person and Source of Funds
Local level consultation / FGD	At construction locations/ nearby location	General public, pedestrian	Construction supervisor, contractor Project budget – continuous process
Local level consultation / FGD with Councillor	Office of the councillor	Local people and councillor office staff	Construction Manager, Environment social team of DSC and PMU, contractor

35. Orientation training has been conducted for all ongoing packages on contractual obligations of the contractor.
36. Photographic evidences of training and awareness programme at different project sites of Tranche 3 and consultations at sites have been provided in Appendix-8 of this report.
37. Table 11 indicates different types of consultations, issues raised and resolved in different packages of Tranche 3 during June 2024 to November 2024.

**Table 11: Issues raised during public consultation in different packages of Tranche - 3 during June, 2024 to November, 2024**

SI No.	Packages Name	Place & Date of Consultation	Topic for discussion
<b>Public Consultation arranged by contractors</b>			
1	SD-30R	Rania, near Sabuj Sangha club 15.11.24	Benefit and impact of the project, discussion on few problems raise by local people during implementation GRM information register suggestion and complain if any.
2	SD 31LOT 1	Ward No:143 21.08.2024	Benefit and impact of the project, discussion on few problems raise by local people during implementation GRM information register suggestion and complain if any.

SI No.	Packages Name	Place & Date of Consultation	Topic for discussion
		Ward No:143 19.09.2024	Benefit and impact of the project, discussion on few problems raise by local people during implementation GRM information register suggestion and complain if any.
3	SD-31R2	Bakrahat road 10.09.2024	Benefit and impact of the project, discussion on few problems raise by local people during implementation GRM information register suggestion and complain if any.

## VII. GRIEVANCE REDRESSAL

38. **Common Grievance Redress Mechanism.** A common grievance redress mechanism (GRM) has been established for social, environmental or any other subproject related grievances.
39. **Grievance Redress Process.** PMU is maintaining a Complaint Cell at KEIIP office located in 206 A J C Bose Road Kolkata 700017 headed by a designated Grievance Officer (currently the Administrative Officer) under Project Director. The Complaint Cell will also be serving as Public Information Centre, where, apart from grievance registration, information on the Project, subprojects, social and environmental safeguards, etc. can be provided.
40. At every Borough of KMC under which works are in progress, a Public Relations & Grievance Redressal Unit has been established for information disclosure on request from public and for receipt of complaints.
41. At contractors' site offices, complaint and suggestion books available for lodging any complaint. The concerned Executive Engineers of KEIIP will monitor these books and if possible take necessary actions for redressal of minor complaints with intimation to the complainant.
42. The Grievance Registration/Suggestion Form will be available at the Complaints Cell and in Borough Offices and will also be downloadable from the KEIIP/KMC websites. Grievances/ suggestions of affected persons can be dropped in suggestion boxes or conveyed through phone or mail. Affected Persons will also be able to register grievances - social, environmental or other, personally at the Complaint Cell and at Borough offices of KMC. The Grievance Officer and designated official at the Boroughs will be able to correctly interpret/record verbal grievances of non-literate persons and those received over telephone.
43. All complaints (unresolved at local site/Borough level) relating to KEIIP will be sent to the Project Director, KEIIP including those received in the KMC/KEIIP website for redressal. The Grievance Officer will resolve simple unresolved issues and in case of complicated issues, consult/seek the assistance of the Environment/Social Specialist of the DSC/PMU. Grievances not redressed through this process within one month of registration will be brought to the notice of the Project Director, KEIIP. Action taken in respect of all complains will be communicated to the complainant by letter, over phone or e-mail or WhatsApp as the case may be.
44. Periodic community meetings with affected communities to understand their concerns and help them through the process of grievance redress (including translation from local dialect/language, recording and registering grievances of non-literate affected persons and explaining the process of grievance redress) will be conducted if required. The above Grievance Redress Process will be discussed with the stakeholders at the proposed disclosure workshop.
45. **Grievance Redressal Committee (GRC).** A PMU level GRC has already been constituted by the Project Director to address grievances. Grievances not resolved at borough level are referred to PMU level. However grievances that cannot be resolved at PMU level will be referred to an apex grievance redress committee (GRC).<sup>17</sup> Still unresolved issues will be referred to an appropriate court of law. Despite the project GRM, an aggrieved person shall have access to the country's legal system at any stage, and accessing the country's legal

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17

<sup>18</sup> The apex GRC will have the following members: KMC Commissioner as Chairperson, KEIIP Project Director, Director General (P), KEIIP, Environment/Social Safeguard Officer, Administrative Officer as the convener, representatives of APs, Community Based Organizations (CBOs), and eminent citizens. The GRC must have at least two women members.

system can run parallel to accessing the GRM and is not dependent on the negative outcome of the GRM.

The time limit for grievance redressal will be as follows,

- ✓ Site level – 7 days
- ✓ Borough level – 7 days
- ✓ GRC – PMU level – 15 days
- ✓ Apex GRC- 15 days

46. **Consultation Arrangements for GR** - This will include group meetings and discussions with affected persons, to be announced in advance and conducted at the time of day agreed on with affected persons and conducted to address general/common grievances; and if required with the Environment/Social Specialist of PMU/DSC for one-to-one consultations. Non-literate affected persons/ vulnerable affected persons will be assisted to understand the grievance redress process, to register complaints and with follow-up actions at different stages in the process.
47. **Record-keeping.** Records will be kept by PMU/Borough Office/contractors' site office of all grievances received including contact details of complainant, date the complaint was received, nature of grievance, agreed corrective actions and the date these were in effect, and final outcome.
48. **Information Dissemination Methods of the GRM.** Grievances received and responses provided will be documented and reported back to the affected persons (Appendix 8 - Sample Grievance Registration Format). The number of grievances recorded and resolved and the outcomes will be displayed/disclosed in the offices of the different Boroughs of KMC and web. The phone number where grievances are to be recorded will be prominently displayed at the construction sites.
49. **Periodic Review and Documentation of Lessons Learned.** PMU will periodically review the functioning of the GRM and effectiveness of the mechanism, especially on the Project's ability to prevent and address grievances.
50. **Costs.** All costs involved in resolving the complaints (meetings, consultations, communication and reporting / information dissemination) will be borne by PMU.
51. A GRM flow chart has been provided in Figure 8 of this report.
52. Grievance recorded and resolved in different packages of Tranche 3 during December, 2023 to May, 2024 has been summarised in Table 12. Physical activity has been initiated in Tranche 3 for all subprojects and over all sites is environmentally well managed.

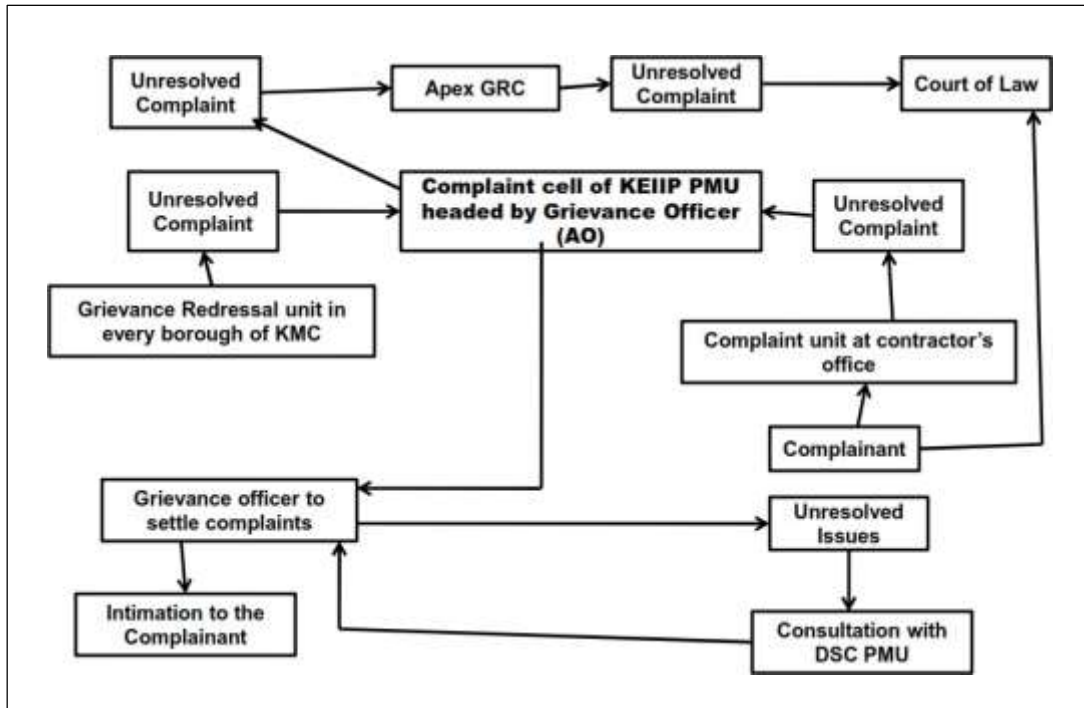


Figure 8 : Grievance Redress Mechanism

Table 12 : Grievance recorded and resolved in different packages of Tranche 3 during June, 2024 to November, 2024

SI No.	Packages Name	Nature of compliant	Status of the issues register
1	SD 29	Water pipe line repairing	Resolved within 1 day
2	SD 31LOT1	Guard Wall Repairing, Slab Repairing, road restoration, House Connection Repairing, Excavated Soil Cleaning	Resolved within 2 days
3	SD 31R2	Water pipe line repairing, Drain slab damage repairing, Water pipe line repairing, Drain slab damage repairing	Resolved within 3/4 days
4	SD 32	Water pipe line repairing, Excavated Soil Cleaning, proper access at Madurdha Road due to pipe line work	Resolved within 1 day
5	SD 34	Water pipe line repairing, Excavated Soil Cleaning,	Resolved within 1 day

### VIII. FINDINGS AND RECOMMENDATIONS

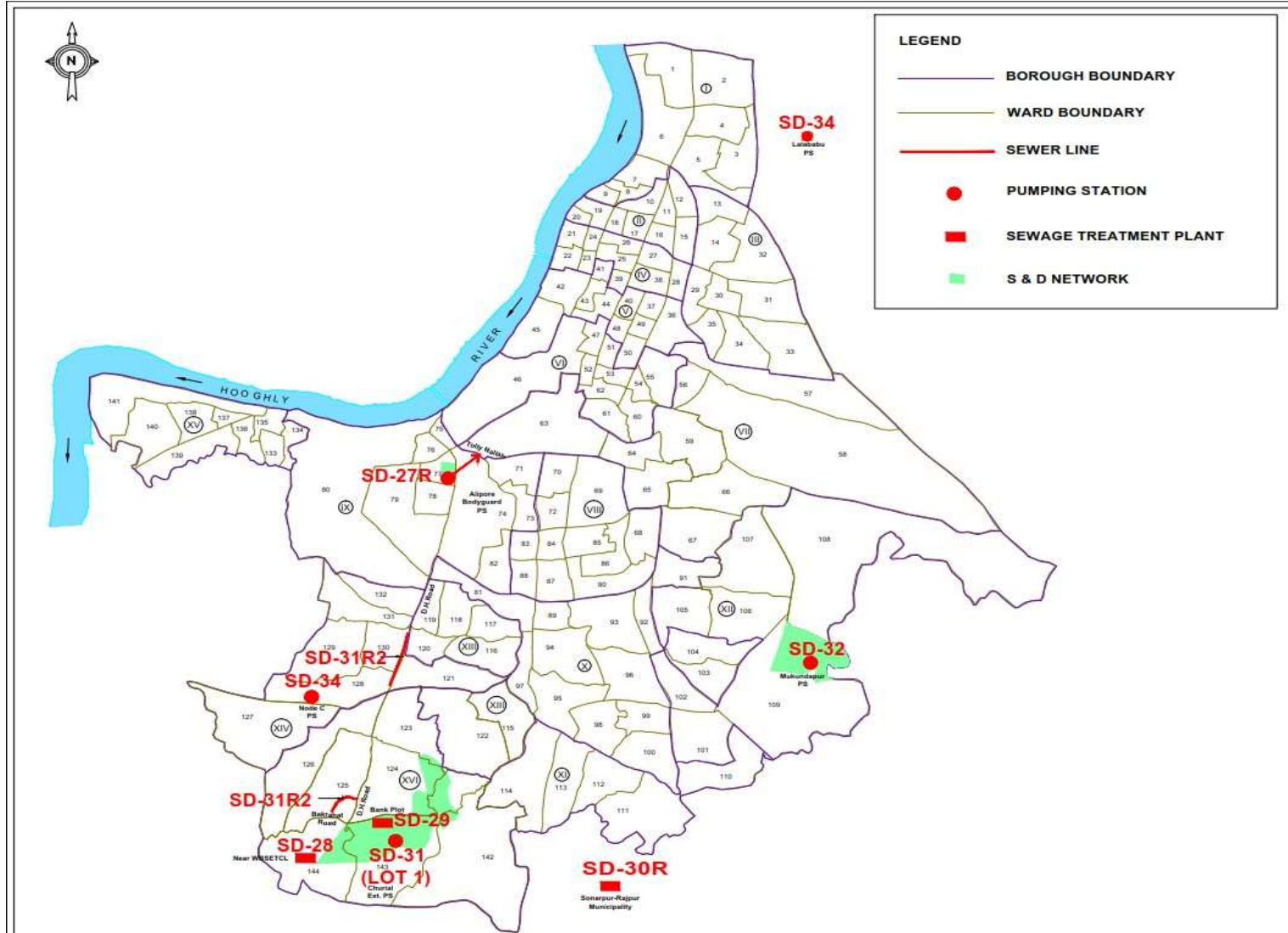
53. Overall, the sites are environmentally well managed. However, scopes for further improvement in public access, housekeeping for material storage, mandatory use of PPE, labour camp management etc, these issues have been explained to the contractors and also site observation notes have issued. It is expected that during next report period EMP compliance of all the packages will be improved as EMP.
54. Statutory clearances – consent to establish (NOC) from West Bengal Pollution Control Board (WBPCB) has been obtained for STPs of SD-28, SD- 29 and SD 30.
55. During construction environmental monitoring has been done for all the packages.
56. Contractors have appointed full time Environment safety officer at their sites and submitting monthly EHS compliance as well as EMP compliances reports.
57. Based on the above, it may be concluded that KEIIP Tranche 3 sub projects are being implemented with satisfactory compliances of the required environmental safeguards during December 2023 to May 2024. EMP compliance within this period is thus satisfactory.
58. In order to further improvement and maintain satisfactory EMP compliances the following corrective action plan (Table 13) is recommended with target dates of compliance. The concerned contractors have been suitably advised. Contractors have also been advised to provide written commitment for implementation of corrective action plan.

**Table 13 : Corrective and Improvement Action Plan**

Sr. No.	Issues to be complied	Action Required	Responsible	Target Date	Indicator of Compliance
<b>Improvement Action Plan</b>					
1	Application of EMP	Continue on regular basis	Contractor in association with PIU and DSC	Continuous process	Site observation and checking
2	Use of PPEs (particularly working shoes/ gumboots, hand gloves) by contractors at different work locations	Complete use of PPEs, particularly use of working shoes, gumboots	Contractor	Immediate	Availability and use of PPE
3	Caution tape/ barricade at all required locations of packages	Complete use of caution tape/ barricade at all working sites	Contractor	Immediate	Site observation and checking
4	Availability of emergency contact no. at display/ caution board	Complete arrangement of display / caution board with all emergency contact no.	Contractor	Immediate	Site observation
5	No Problem of public access	Sufficient access need to be provided at all working sites.	Contractor	Immediate	Site observation and checking

Sr. No.	Issues to be complied	Action Required	Responsible	Target Date	Indicator of Compliance
6	Satisfactory Housekeeping at work site	Immediate improvement of housekeeping	Contractor	Immediate	Site observation
7	Arrangement of labour camp/ rented house for contractor	Arrangement as per requirement	Contractor	Continuous process	Site observation and checking
8	Training to workers	Regular tool box training for labour. Safeguard orientation training for contractor	Contractor, PIU, DSC	Continue process	Record keeping and safeguard implementation
9	Renewal of Labour License	Continue on regular basis	Contractor, PIU, DSC	Continue process	Record keeping
<b>Corrective Action Plan</b>					
10	No environmental monitoring conducted at SD 28, SD 29 and SD 31 R2 packages	Immediate action to be taken for compliance of the same	Contractor	Immediate	Submission of monitoring report

### Appendix 1: Tranche -3 projects location map



**Appendix-2: Project activities at different Project Sites (in the month of June to November 2024)**



**Figure 9: Excavation work is in progress at Joka in SD28**



**Figure 10: Launder base slab shuttering & reinforcement work are under progress in SD29**



**Figure 11: safety net during construction of admin building in SD30R**



**Figure 12: Launder base slab shuttering & reinforcement work are under progress in SD 31LOT1**



**Figure 13: Road restoration work in progress at D.H. road in SD 31R2**



**Figure 14: RCC concrete work is in progress at Lalababu site in SD 34**

**Appendix 3: Sample of PUC's**

Form 59  
[See rules 115 (2)]

**Pollution Under Control Certificate**  
Authorised By :  
Government of West Bengal

Date : 31/10/2023  
Time : 11:33:23 AM  
Validity upto : 30/10/2024

Certificate SL. No. :  
Registration No. : WB00100620013776  
Date of Registration : WB26K9348  
Month & Year of Manufacturing : 28/Dec/2010  
Valid Mobile Number : December-2010  
Emission Norms : \*\*\*\*\*B334  
Fuel : BHARAT STAGE IV  
PUC Code : DIESEL  
GSTIN : WB0010062  
Fees : 19AABFH9914R1ZL  
Rs.100.00  
ML observation : (GST to be paid extra as applicable)  
No

Vehicle Photo with Registration plate  
60 mm x 30 mm

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
	CO	percentage (%)		
High idling emissions	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	1.62	0.51

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorised Signature with stamp of PUC operator  
60mm x 20 mm

**HARISH MOTORS**  
52B, HARISH MUKHERJEE ROAD  
KOLKATA-700025

SD-28

**Form 59**  
[See rules 115 (2)]

**Pollution Under Control Certificate**  
Authorized By:  
Government of Haryana

Date : 25/05/2024  
Time : 12:21:13 PM  
Validity upto : 24/05/2025

Certificate No. : HR0460126001242  
 Registration No. : WB39C2886  
 Date of Registration : 16/May/2023  
 Month & Year of Manufacturing : Apr-2023  
 Valid Mobile Number : \*\*\*\*0900  
 Emission Norms : BHARAT STAGE VI  
 Fuel : DIESEL  
 PUC Code : HR046012B  
 GSTIN :  
 Fees : Rs.100.00  
 ML observation : No

Vehicle Photo with Registration plate  
60 mm x 30 mm

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	0.7	0.64

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorized Signature with stamp of PUC operator  
60mm x 20 mm

[See rules 115 (2)]

**Pollution Under Control Certificate**  
Authorized By:  
Government of West Bengal

Date : 29/03/2024  
Time : 11:52:58 AM  
Validity upto : 28/03/2025

Certificate No. : WB02AT7785  
 Registration No. : WB02AT7785  
 Date of Registration : 31/Mar/2023  
 Month & Year of Manufacturing : Mar-2023  
 Valid Mobile Number : \*\*\*\*7979  
 Emission Norms : BHARAT STAGE VI  
 Fuel : PETROL  
 PUC Code : WB029002A  
 GSTIN : 19WAPM0015R1ZF  
 Fees : Rs.100.00  
 ML observation : No

Vehicle Photo with Registration plate  
60 mm x 30 mm

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)	0.5	0.01
	Hydrocarbon, (THC/HC)	ppm	200.0	25.0
High idling emissions	CO	percentage (%)	0.2	0.06
	RPM	RPM	2500 ± 200	2375.0
	Lambda	-	1 ± 0.03	1.03
Smoke Density	Light absorption coefficient	1/metre		

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorized Signature with stamp of PUC operator  
60mm x 20 mm

SD-30R





**Vehicle search**

Vehicle Number: WB24AL7037

Owner Name: \*A\*H\*T\* \*A\*E\*N\*

Registering Authority: BARRACKPORE ARTO, West Bengal

Vehicle Class: Crane Mounted Vehicle(MMV)

Fuel Type: DIESEL

Emission Norm: BHARAT STAGE III

Vehicle Age: 7 Years & 3 months

Hypothecated: No

Vehicle Status: **ACTIVE**

[Tap to Check the Vehicle Impound and Seizure Document Status](#)

Registration Date: 07-Jun-2017

Fitness Valid UpTo: 06-Jun-2032

Tax Valid UpTo: 04-Jun-2025

Insurance Valid UpTo: 19-Apr-2025


PUC Valid Upto: 01-Jan-2025

SD-31R2

Form 59  
(Beranda 119 (2))


**Pollution Under Control Certificate**  
Authorized By: Government of West Bengal

Date : 15/03/2024  
Time : 14:05:22 PM  
Validity upto : 14/09/2024



Certificate No. : WB01300100000338  
Registration No. : WB76A3901  
Date of Registration : 14/Jan/2011  
Month & Year of Manufacturing : January-2011  
Valid Mobile Number : 911706262  
Emission Norms : Bharat Stage II  
Fuel : DIESEL  
PUC Code : WB0130010  
OSPN : 33ALZF242490130  
Fee : Rs.100.00  
NH observation : No

Vehicle Photo with Registration plate  
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
Smoke Density	Lambda	-	1 ± 0.03	
	Light absorption coefficient	1/metre	2.45	1.03

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicles by logging to <https://poc.parivahan.gov.in>

Authorized Signature with stamp of PUC operator

SIGNATURE OF HSE

Form 59  
(New Class 718 (2))

**Pollution Under Control Certificate**  
Authorized By: Government of West Bengal

Date : 15/03/2024  
Time : 18:13:04 PM  
Validity upto : 14/09/2024



Certificate No. : WB01300100000343  
Registration No. : WB181839  
Date of Registration : 21/May/2013  
Month & Year of Manufacturing : May-2011  
Valid Mobile Number : 911706262  
Emission Norms : Bharat Stage II  
Fuel : DIESEL  
PUC Code : WB0130010  
OSPN : 33ALZF242490130  
Fee : Rs.100.00  
NH observation : No

Vehicle Photo with Registration plate  
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
Smoke Density	Lambda	-	1 ± 0.03	
	Light absorption coefficient	1/metre	2.45	0.89

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicles by logging to <https://poc.parivahan.gov.in>

Authorized Signature with stamp of PUC operator


SIGNATURE OF HSE

SD-31R2

**Form 59**  
[See rules 115 (2)]


**Pollution Under Control Certificate**  
 Authorised By :  
 Government of West Bengal

**Date** : 19/07/2024  
**Time** : 10:40:04 AM  
**Validity upto** : 18/07/2025



Certificate SL. No.	:	WB02501350067788
Registration No.	:	WB02AR1536
Date of Registration	:	29/Apr/2021
Month & Year of Manufacturing	:	March-2021
Valid Mobile Number	:	*****1457
Emission Norms	:	BHARAT STAGE VI
Fuel	:	PETROL/HYBRID
PUC Code	:	WB0250135
GSTIN	:	19ABWPC3514C2ZS
Fees	:	Rs.100.00
MIL observation	:	No

Vehicle Photo with Registration plate  
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)	0.3	0.02
	Hydrocarbon, (THC/HC)	ppm	200.0	0.0
High idling emissions	CO	percentage (%)	0.2	0.02
	RPM	RPM	2500 ± 200	2530.0
	Lambda	-	1 ± 0.03	1.02
Smoke Density	Light absorption coefficient	1/metre		

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorised Signature with stamp of PUC Operator  
60mm x 20 mm


**MIRA SERVICE STATION**  
 New Town, Plot No. - 2, Block - AH, Kol-156  
 GST NO - 19ABWPC3514C2ZS  
**FOUR WHEELER / TWO WHEEL**  
 Rs - 100.00      Rs - 80.00  
 CGST - 9.00      7.20  
 SGST - 9.00      7.20  
 Total = 118.00      94.40  
 B. ROUL

**SD-34**

**Appendix 4 A: NOC from WBPCB for SD 28**


D-105 (1) *Amr 11.5.19*

NOC NO-159177  
**WEST BENGAL POLLUTION CONTROL BOARD**  
 Paribesh Bhawan  
 10A, Block - LA, Sector III, Bidhannagar  
 Kolkata - 700 105



Memo No. *016 - 01-MC-R-19-0098* Dated *10-05-2019*

From :  
 Member Secretary,  
 West Bengal Pollution Control Board  
*M/s. KEIIP (STP near WBSDEL, TOKA)*  
*206, ATC Bose Road, P.O. - Circus Avenue*  
*Kolkata - 700 017*



To :

Sub: Consent to Establish (NOC) from Environmental Point of View

Ref: Your letter No. *[Redacted]* *Submitted on 05-04-19*

**WEST BENGAL**

Dear Sirs,

In response to the application for Consent to Establish (NOC) for proposed Unit of *M/s. KEIIP (STP NEAR WBSDEL, TOKA)* for manufacturing/operation of *gas gas treatment plant (capacity 15 M3D) consisting of coarse scrubber, fine scrubber, absorption tank (as proposed) with chambers, Sequencing Batch reactor at 587-588, D.H. Road, P.O. Behala, Kolkata - 700 034.* this is to inform you that this Board hereby grants the Consent to Establish (NOC) from the environmental point of the above subject to the following conditions and special conditions annexed.

1. The quality of sewage and trade effluent to be discharged from your factory shall satisfy the permissible limits as prescribed in IS : 2490 (Pt. I) of 1974, and/or its subsequent amendment and Environment (Protection) Rules 1986.
2. Suitable measures to treat your effluent shall be adopted by you in order to reduce the pollutional load so that the quality of the effluent satisfies the standards mentioned above.
3. You shall have to apply to this Board for its consent to operate and discharge of sewage and trade effluent according to the provisions of the water (Prevention & Control of Pollution) Act, 1974. No sewage or trade effluent shall be discharged by you without prior consent of this Board.
4. All emission from your factory shall conform to the standards as laid down by this Board.
5. No emission shall be permitted without prior approval of this Board and you shall apply to this Board for its consent to operate and atmospheric emission as per provision of the Air (Prevention & Control Pollution) act, 1981.
6. No industrial plant, furnace, flues, chimneys, control equipment, etc. shall be constructed/reconstructed/erected/re-erected without prior approval of this Board.

No-159177

7. You shall comply with
- (i) Water (Prevention and Control of Pollution) Cess Act, 1977, if applicable.
  - (ii) Water (Prevention and Control of Pollution) Cess Act, 1978, if applicable.
  - (iii) Environment (Protection) Act, 1986
  - (iv) Environment (Protection) Rules, 1986
  - (v) Hazardous Wastes (Management and Handling) Rules, 1989 and Amended Rules, 2000
  - (vi) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Amended Rules, 2000
  - (vii) Manufacture, Use, Import and Storage and Hazardous Micro-Organisms, Genetically Engineered Organisms or Cell Rules, 1989
  - (viii) The Public Liability Insurance Act, 1991 and Amended Act, 1992
  - (ix) The Public Liability Insurance Rules, 1991 and Amended Rules 1993
  - (x) Biomedical Wastes (Management & Handling) Rules, 1998 and Amended Rules 2000 if applicable.
  - (xi) Recycled Plastic Manufacture and Usage Rules 1999, if applicable and
  - (xii) Ozone Depleting Substances (Regulation & Control) Rules, 2000, if applicable
8. You will have to abide by any other stipulations as may be prescribed by any authority/local bodies/Government Departments etc.

SPECIAL CONDITION: *Please refer to annexure*

Any violation of the aforesaid conditions shall entail cancellation of this Consent to Establish (NOC)  
*Gross capital Investment - Rs 701800000/-*



Yours faithfully,

*Mukherjee 10/05/19*  
 Member Secretary,  
 West Bengal Pollution Control Board

Senior Environmental Engineer,  
 W.B. Pollution Control Board

Memo No. ....

Copy forwarded for information to :

1. Chief Inspector of Factories, Government of West Bengal, N. S. Building, Kolkata-700 001
2. Director of Industries/Director of Cottage & Small Scale Industries, Government of West Bengal, N. S. Building, Kolkata-700 001
3. Guard file, West Bengal Pollution Control Board.
4. Environmental Engineer, III/Alipur R.O./Howrah R.O./Hooghly R.O./B.R.O./D.R.O./Haldia R.O./S.R.O./Asansol/ Sub-R.O./WBPC Board
 


Himalaya Bhawan Delhi Road, Dankuni Dist. Hooghly	Vill, Panpur Kalyani Expressway P.O. Narayanpur Dist. 24 Pgs. (N)	Sahid Khudiram Sarani City Centre, Durgapur-16 Dist. Burdwan	10, Camac Street 2nd Floor Kolkata-700 017
Paribesh Bhawan 10A, LA-Block, Sector-III Salt Lake City, Kolkata - 700 098	Block-05 at 40 Flats Complex Adjacent to Priyambada Housing Estate P.O. : Khanjanchak, P.S. Durgachak Haldia-721602 Dist. : Purba Medinipur	Paribahan Nagar Matigara, Siliguri Dist. Darjeeling	
Satya Chowdhury Indoor Stadium Balurchar Bandh Road Malda-732101	Asansol Sub-Regional Office ADDA Commercial Market (2nd Floor) Opposite Asansol Fire Station G.T. Road, Asansol-713 301	Member Secretary, West Bengal Pollution Control Board	

Appendix 4B : NOC from WBPCB for SD – 29

D7-CE(1)  
Anurag 8-5-19


NOC No-159176

**WEST BENGAL POLLUTION CONTROL BOARD**  
Paribesh Bhawan  
10A, Block – LA, Sector III, Bidhannagar  
Kolkata – 700 105



Memo No. 015-41-20-2-19-0099 Dated 10-05-2019

From :  
Member Secretary,  
West Bengal Pollution Control Board  
M/S. KEIIP (STP AT BANK PLOT, M.G. ROAD, JOKA)  
206, A/C Bose Road, P.O.- Circus Avenue  
Kolkata - 700 017



To :

Sub : Consent to Establish (NOC) from Environmental Point of View

Ref : Your letter No. [REDACTED] dated submitted on 05-04-19

**WEST BENGAL**

Dear Sirs,

In response to the application for Consent to Establish (NOC) for proposed Unit of M/s KEIIP.....  
(STP AT BANK, M.G. ROAD, JOKA)  
for manufacturing/operation of Secondary Treatment Plant (capacity 4.0 MLD)  
consisting of three stages of the sewage treatment, sequential  
Batch Reactor - Effluent Treatment Tank (as per Reg. No. 190, 469-472,  
M.G. Road, Mouza-Kallia, P.O. - Behala, Kolkata - 700034,  
this is to inform you that this Board hereby grants the Consent to Establish (NOC) from the environmental point of the above subject to the following conditions but special conditions annexed.

1. The quality of sewage and trade effluent to be discharged from your factory shall satisfy the permissible limits as prescribed in IS : 2490 (Pt. I) of 1974, and/or its subsequent amendment and Environment (Protection) Rules 1986.
2. Suitable measures to treat your effluent shall be adopted by you in order to reduce the pollutional load so that the quality of the effluent satisfies the standards mentioned above.
3. You shall have to apply to this Board for its consent to operate and discharge of sewage and trade effluent according to the provisions of the water (Prevention & Control of Pollution) Act, 1974. No sewage or trade effluent shall be discharged by you without prior consent of this Board.
4. All emission from your factory shall conform to the standards as laid down by this Board.
5. No emission shall be permitted without prior approval of this Board and you shall apply to this Board for its consent to operate and atmospheric emission as per provision of the Air (Prevention & Control Pollution) act, 1981.
6. No industrial plant, furnace, flues, chimneys, control equipment, etc. shall be constructed/reconstructed/erected/re-erected without prior approval of this Board.

## Appendix 4C :Tree cutting permission for SD-29

[Pg 1] THE KOLKATA GAZETTE, EXTRAORDINARY, FEBRUARY 9, 2019 1]

**Form III**  
Form for Permission for Felling / Disposing of Trees in Non-Forest Areas  
[see Rule 5 (2)]

Permit No. 121/FUD/19 Dated : 19/02/2019

Whereas the applicant, Sri / Smt/-Messrs : Prady Kumar Saha (EE, KEIIP),  
Address: Bahans Tower, 204 A.L.C. Boat Road, Kolkata-700 017, has submitted an application with the prescribed fee on 25.10.2019 for permission for felling / disposing of trees for the purpose of removal of 46 (Forty) trees which are obstructing in construction of In-situ Treatment Plant. On per inquiry report of the following site :-

(a) Location : Premises under Prady Kumar Saha, (EE, KEIIP)  
At 248, N.C. Road, Kolkata-700 104.

(b) Details of Plot (s) of Land : Premises mentioned under (a) shown in Ward No. 142 of Kolkata Municipal Corporation, P.S. - Hartreepur.

AND Whereas the undersigned is satisfied with regard to the legality of documents towards the proof of ownership or lease of the land on which such tree stands;

AND Whereas the purpose for which the trees are required to be felled is in conformity with rule 4 (1) of the West Bengal Trees (Protection and Conservation in Non-forest Areas) Rules, 2007.

AND Whereas an inquiry in the prescribed manner has been carried out on 1.11.2019 and the undersigned has examined the inquiry report with due care;

AND Whereas the land in question belongs to the Tea Garden and the applicant has produced a specific scheme framed under the provisions of the Plantation Labour Act, 1951 for utilizing the sale proceeds strictly for the purpose of welfare of the labourers;

AND Whereas the applicant is a developer who has already obtained a Certificate of Clearance No. 27/Clearance/19 dated 14.12.2019 issued by the undersigned and sanctioned of the building / construction plan by the sanctioning authority Project Director of The Kolkata Municipal Corporation/KEIIP vide his Notification Contract Package NR/KEIIP/NCB/TR-15D19/2017-18 (Ref : F941/0P/387/2018-19, dated: 28/09/2018.

AND Whereas it is found on inquiry that the proposed felling will not alter nature or character or mode of use of the land.

OR

The applicant has produced the requisite permission under section 4C of the West Bengal Land Reforms Act, 1955.

Page 1 of 5

(Form I) THE KOLKATA GAZETTE EXTRAORDINARY, FEBRUARY 3, 2007 14

AND Whereas the applicant has deposited the prescribed security amount for protection of trees to the undersigned;

OR

The applicant has been exempted by the undersigned from the obligation of plantation of trees under sub-rule (2) of rule 6 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Rules, 2007;

OR

The applicant has expressed his inability to undertake the plantation of trees by himself and has deposited to the undersigned the amount for the designated agency as provided under sub-rule (1) of rule 6 West Bengal Trees (Protection and Conservation in Non-Forest Areas) Rules, 2007;

OR

The applicant is a developer and not required to deposit the security amount.

- \* Strike off if not applicable.
- \* Strike off the option which is not applicable

Now, therefore, in pursuance to the power conferred under sub-section (1) of section 5 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006, the undersigned permits the applicant to undertake the felling of the trees as indicated in the annexure.

The undersigned also permits applicants (not a developer) under the first proviso to section 5 of West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006 to plant only \_\_\_\_\_ number of trees instead of the number prescribed under sub-rule (1) of rule 6 of West Bengal Trees (Protection and Conservation in Non-Forest Areas) Rules, 2007. OR permits the applicant to plant \_\_\_\_\_ number of trees over different plot (s) of land (as indicated in Condition No-3 below) because (give reasons) \_\_\_\_\_ which is in conformity with sub-rule (2) of rule 6 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Rules, 2007;

The permission as given above is subject to the following conditions:-

This Permit is non-transferable and valid only up to 30<sup>th</sup> March, 2020...

1. The applicant (if a developer) shall take up plantation of trees in accordance with the approved Plantation Plan and the Certificate of Clearance within \_\_\_\_\_ month(s) of the issue of this permit and shall also take up maintenance & protection of the newly planted plantation and shall also take up approved norms, etc. fixed under the Rules, \_\_\_\_\_ month (s) from the date of sanction of the building construction plan by the sanctioning authority;
2. The applicant (if not a developer) shall take up plantation of \_\_\_\_\_ number of trees over the plot (s) to \_\_\_\_\_ within \_\_\_\_\_ month(s) from the date of issue of this permit;

15 THE KOLKATA GAZETTE, EXTRAORDINARY, FEBRUARY 9, 2024 [Part I]

- 3. As provided in section 14 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006, the applicant (if not a developer) shall start preparatory work for plantation within sixty days from the date for permit or the date of receipt of directions from the undersigned as the case may be, and shall undertake plantation for trees in accordance with such directions;
- 4. The applicant shall inform the undersigned in writing immediately on completion of the plantation of trees;
- ✓ 5. The applicant shall, within a week of carrying out felling of trees submit a report to the undersigned indicating the total number of logs and firewood produced against each species;
- ✓ 6. Stump of the felled trees shall be retained for a at least one month from the date of felling;
- ✓ 7. The felling and carriage of trees shall not be carried out after the sun-set and before the sun-rise.
- 8. This permission is subject to the provisions of the West Bengal (Establishment and Regulation of Saw Mills and Other Wood-based Industries) Rules, 1982 and The West Bengal Forest Produce Transit Rules, 1959.
- 9. This permit should be produced for inspection on demand to the undersigned or any of the authorities specified in sections 15 and 17 of West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006.

19/2/2024  
 (Signature of the Competent Authority)  
 Name ..... U. K. Nag  
 Designation .... Divisional Forest Officer  
 Official Seal: THE STATE FOREST OFFICE  
 FOREST DEPARTMENT, GOVT. OF WEST BENGAL

• Strike off if not applicable.

The Kolkata Gazette Extraordinary-February 9, 2007 Part-I

Annexure of Form III

Permit Number: 122/FLD/19

Date: 19/02/2008


Number of Tree	Location (Plot No)	Species	Diameter Girth at breast height (in cm)	Condition of the tree
1	Premises of Paddy Kumar Saha (UK KEIP) at 22B, M.G. Road, Kolkata-700 104 in Ward No. 143, of Kolkata Municipal Corporation, P.S. Haldopur.	Sita	125	good
2		Sita	80	good
3		Sita	105	good
4		Sita	100	good
5		Sita	130	good
6		Sita	240	good
7		Sita	180	good
8		Sita	108	good
9		Ficus	130	good
10		Kadam	80	good
11		Kadam	120	good
12		Kadam	100	good
13		Kadam	92	good
14		Kadam	80	good
15		Kadam	80	good
16		Amsa	100	good
17		Amsa	80	good
18		Amsa	66	good
19		Amsa	70	good
20		Sala	80	good
21		Sala	68	good
22		Sala	80	good
23		Sala	104	good
24		Sala	100	good
25		Bela	10	good
26		Sugra	40	good
27		Sugra	45	good
28		Sugra	35	good
29		Sugra	40	good
30		Sugra	40	good
31	Alango	45	good	
32	Alango	50	good	
33	Jackfruit	40	good	
34	Jackfruit	70	good	
35	Amul	70	good	
36	Jam	75	good	
37	Jam	70	good	
38	Daryun	210	good	
39	Jeta	80	good	
40	Jeta	100	good	

Species	Abundance	Total No. of Trees
A		
B Nirm, Jamba, Jambakfruit		1+1=2
C Mangro, Dira, Jamb...		3+3+3=9
D Kadua		1
E Bayan, Sapa, Amra, Supat, Jeta, Jamb...		5+1+4+5+2+1=18
Grand Total:		40 (Fortal Nya)

(Signature of the Competent Authority)  
Name: UPE Nya  
Designation: Divisional Forest Officer  
Official Seal: Divisional Forest Officer  
Forest/ Wildlife Division Complex

Page 2 of 2

Appendix 4D: NOC from WBPCB for SD 30R



**NOC No. 10171899**  
**WEST BENGAL POLLUTION CONTROL BOARD**  
 Paribesh Bhawan  
 10A, Block - LA, Sector III, Bidhannagar  
 Kolkata - 700 106

Memo No. 67-2N/211/R/12-22      Dated 05/03/2022

From: Member Secretary,  
West Bengal Pollution Control Board

To: The Project Director  
M/S. Kolkata Environmental Improvement Investment Program (KEIIP), KMC  
206, AIC Bose Road  
Kolkata - 700017

Sub: Consent to Establish (NOC) from Environmental Point of View  
 Ref: Your letter No. 11104/145/2021 Dated 07/01/2022

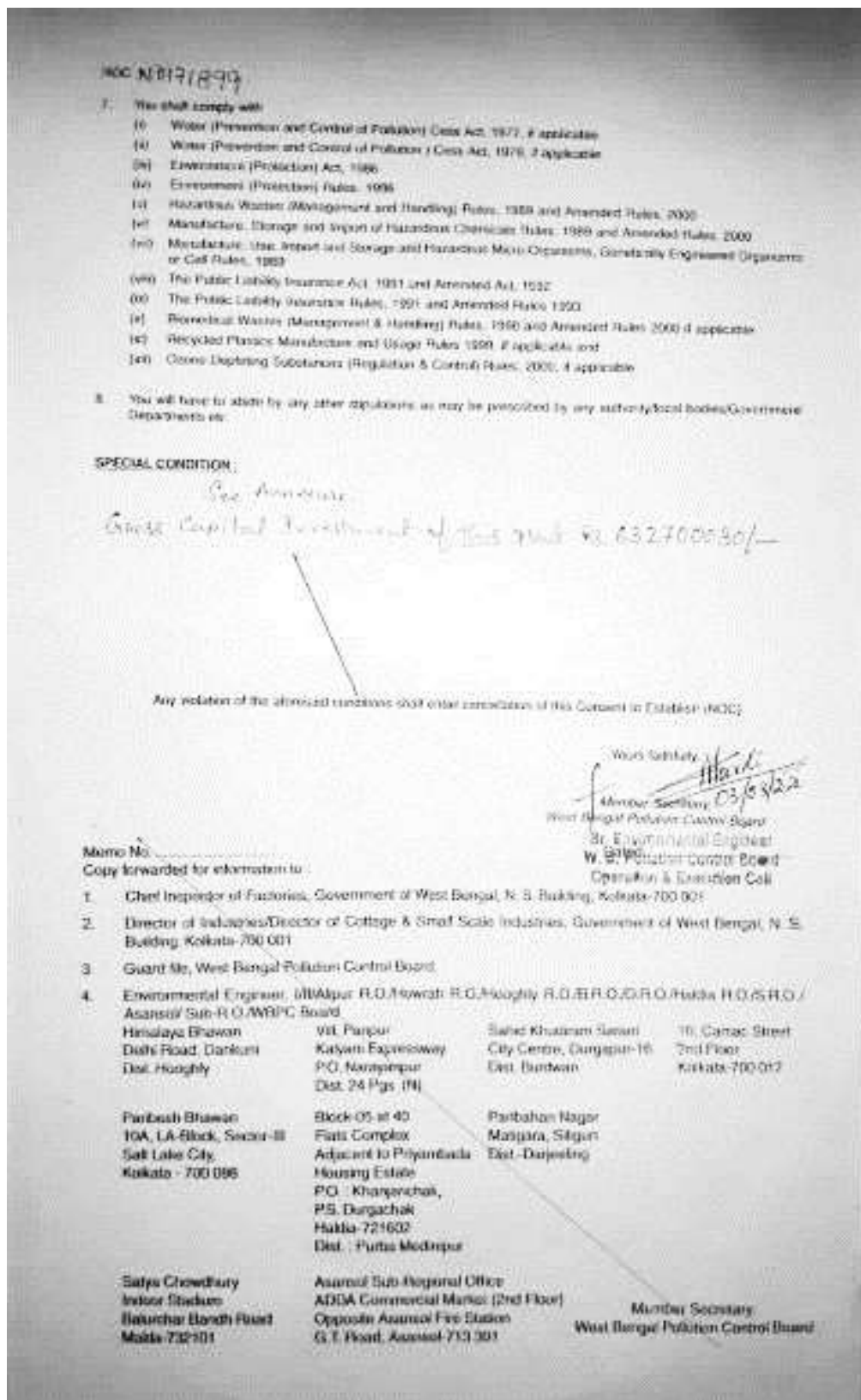
**WEST BENGAL**

Dear Sirs,

In response to the application submitted to Establish (NOC) for proposed Unit of M/s. Kolkata Environmental Improvement Investment Program (KEIIP), KMC for manufacturing of paper substrate for 311 Thermal Effluent Booklet/Day at Plot No - 237, Area - 2, Phase - 2, Kolkata Environmental Improvement Program, this is to inform you that this Board hereby grants the Consent to Establish (NOC) from the environmental point of the above subject to the following conditions and special conditions, as listed below:

Rajpara, Sonarpur, Mirzapur, My. Dist - 741013, Pin - 740154.

1. The quality of sewage and trade effluent to be discharged from your factory shall satisfy the permissible limits as prescribed in IS : 2430 (Pt. I) of 1974, and/or its subsequent amendment and Environment (Protection) Rules, 1986.
2. Suitable measures to treat your effluent shall be adopted by you in order to reduce the pollutional load so that the quality of the effluent satisfies the standards mentioned above.
3. You shall have to apply to this Board for its consent to operate and discharge of sewage and trade effluent according to the provisions of the water (Prevention & Control of Pollution) Act, 1974. No sewage or trade effluent shall be discharged by you without prior consent of this Board.
4. All emission from your factory shall conform to the standards as laid down by this Board.
5. No emission shall be permitted without prior approval of the Board and you shall apply to this Board for its consent to operate and atmospheric emission as per provisions of the Air (Prevention & Control Pollution) Act, 1986.
6. No industrial plant, furnace, flues, chimneys, scrubber equipment, etc. shall be constructed/reconstructed/erected/modified without prior approval of this Board.



**Annexure to NOC SL NO171899**

Special Conditions issued to Sewage Treatment Plant - 23 MLD by Kolkata Environmental Improvement Investment Program (KEIIP) of Kolkata Municipal Corporation located at Rania, P.O & P.S-Sonarapur, Rajpur- Sonarapur Municipality, Dist-24 Pgs(S), PIN-700154.

**A. Emission:- NIL****B. Sewage Treatment Plant :-**

23 MLD to be treated in Sewage Treatment Plant based on Sequential Batch Reactor (SBR) technology and discharged to Rania Canal with pumping arrangements.

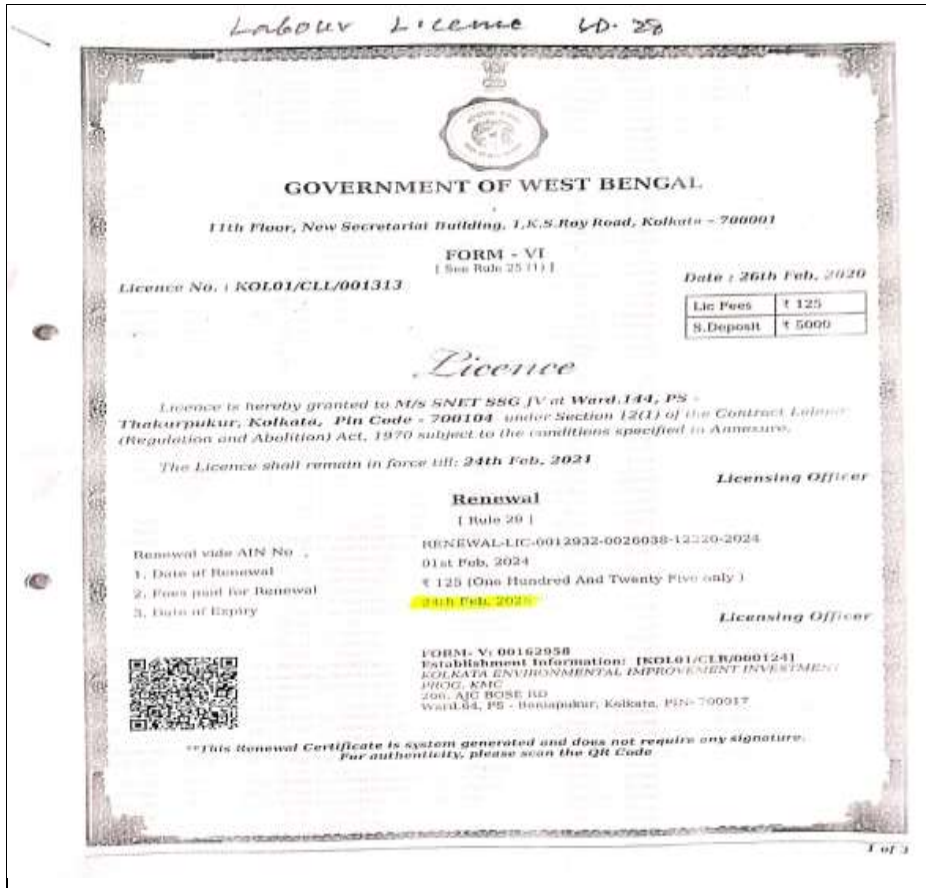
**C. Solid Waste :-** sludge to be used as manure.**D.General :-**

1. The project proponent shall take proper measures to be taken to control air, water and noise pollution.
2. This NOC is valid only subject to obtaining permission/clearances from the other Competent Authorities as applicable.
3. The Project proponent shall comply the treated effluent discharge standards as prescribed in Notification No.G.S.R. 1265 ( E ) dated 13.10.2017 issued by the MOEF&CC, Govt. of India.
4. Ambient noise level not to exceed the permissible limit.
5. No addition/alteration/modification can be done without prior permission from the State Board.
6. The project proponent shall obtain Consent to Operate of the State Board before starting operation.
7. Good housekeeping to be maintained.
8. Adequate green belt around the unit to be developed.
9. This NOC is valid upto 28.02.2029 for setting up the Sewage Treatment Plant - 23 MLD capacity.

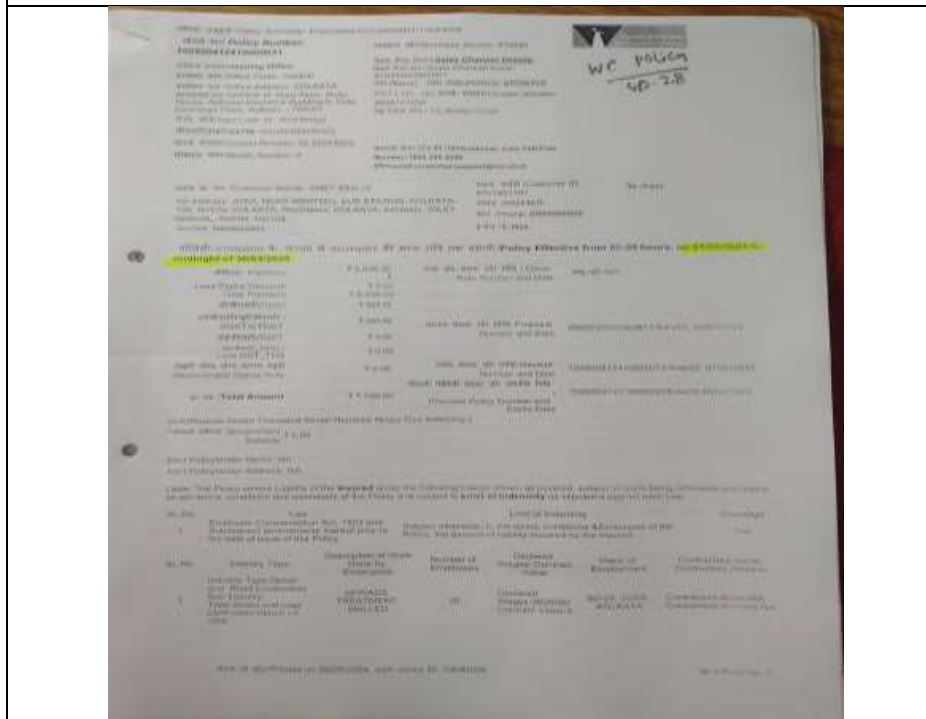
  
Sr. Environmental Engineer  
West Bengal Pollution Control Board

Sr. Environmental Engineer  
W. B. Pollution Control Board  
Operation & Execution Cell

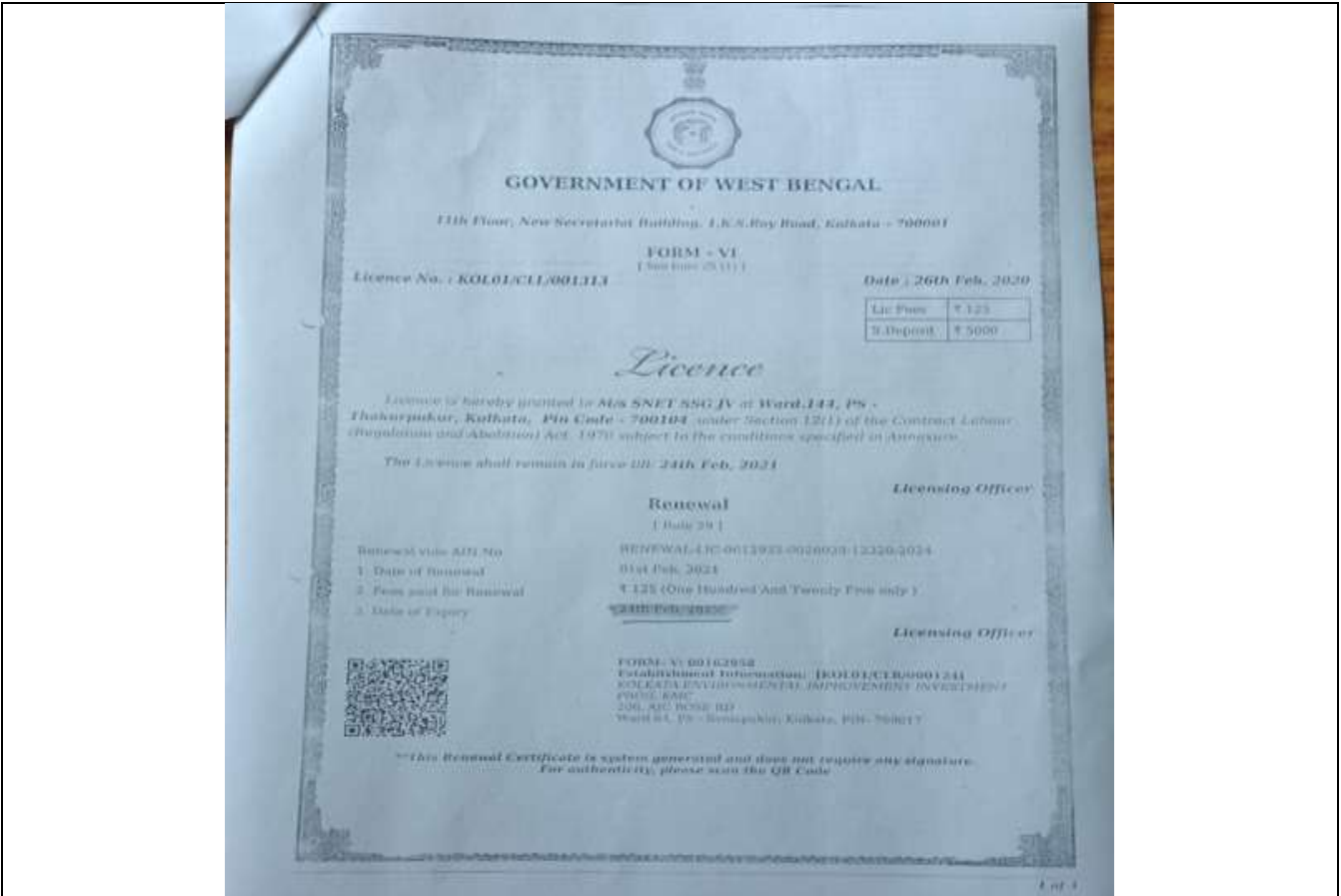
**Appendix 5: Labour License & Workmen Compensation**



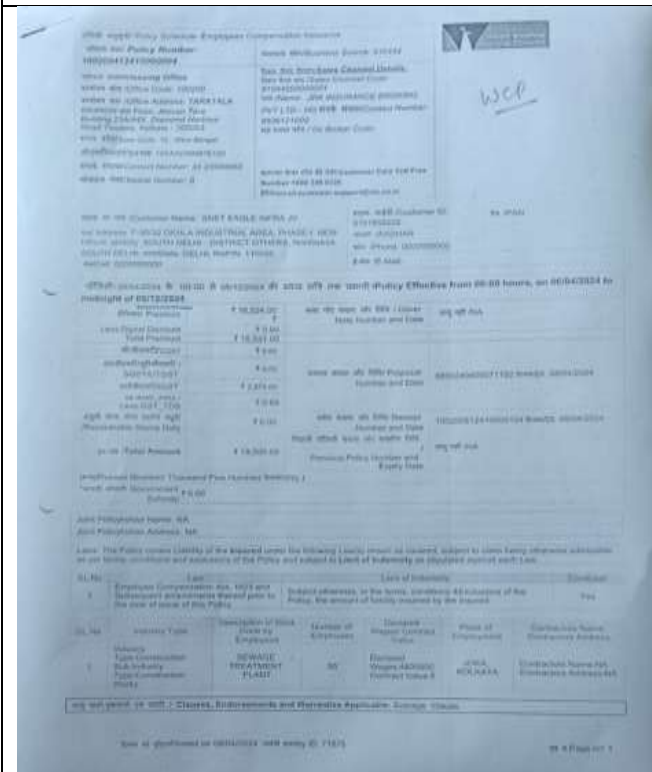
**Labour Liscence Certificate of SD 28**



**Workman comensation policy of SD-28**



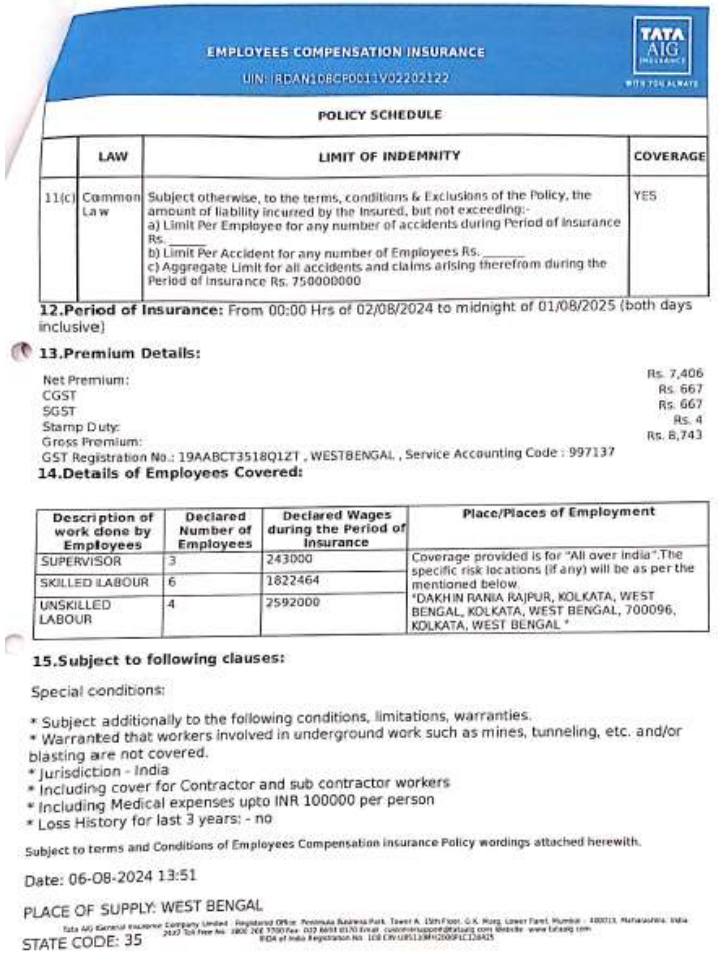
Labour Licence Certificate of SD 29



Workman comensation policy of SD-29



Labour Licence Certificate of SD 30R



Workman compensation policy of SD-30 R

Scanned with CamScanner



**Labour License Certificate of SD 31IOT1**



**Workman comensation policy of SD-31LOT1**

**GOVERNMENT OF WEST BENGAL**  
KOLKATA  
11th Floor, New Secretariat Building, I.K.S.Roy Road, Kolkata - 700001

**FORM - VI**  
[ See Rule 25 (1) ]

**Licence No. : KOL01/CLL/001712** **Date : 07th Sep, 2021**

Lic Fees	₹ 125
S. Deposit	₹ 5000

*Licence*

Licence is hereby granted to **ATOZ ADHUNIK JV at South Dum Dum Municipality, Ward- 31, Barrackpore, PS - Lake town, District - North 24 Parganas, Pin Code 700048** under Section 12(1) of the Contract Labour (Regulation and Abolition) Act, 1970 subject to the conditions specified in Annexure.

The Licence shall remain in force till: **06th Sep, 2022**

*Signature and Seal of Licensing Officer*

**Renewal**  
[ Rule 28 ]

Renewal vide AIN No: **RENEWAL-LIC-0018008-0028888-80498-2024**

1. Date of Renewal	08th Sep, 2024
2. Fees paid for Renewal	₹ 125 (One Hundred And Twenty Five only)
3. Date of Expiry	08th Sep, 2026

*Signature and Seal of Licensing Officer*



**FORM - VI 002024**  
Establishment Information: **[KOL01/CLL/000124]**  
**KOLKATA ENVIRONMENTAL IMPROVEMENT INVESTMENT PROJ. EMO**  
SOS, AIC ROSE RD  
Ward.01, PS - Baranpukur, Kolkata, PIN-700017

**\*\*This Renewal Certificate is system generated and does not require any signature. For authenticity, please scan the QR Code**

1 of 3

**Labour Licence Certificate of SD 31 R2**

**EMPLOYEES COMPENSATION INSURANCE**  
POLICY SCHEDULE

12. Period of Insurance: From 00:00 hrs of 01/09/2024 to midnight of 30/09/2025 (both days inclusive)

13. Premium Details:

Net Premium:	Rs. 8,400
GST:	Rs. 481
Share Duty:	Rs. 5
GST Refundable:	Rs. 8,444

GST Registration No: 19AABCT18102T, WESTBENGAL, Service Accounting Code: 991113

14. Details of Employees Covered:

Description of work done by Employees	Declared Number of Employees	Declared Rate during the Period of Insurance	Class/Class of Employment
Site Engineer	8	210000	Coverage provided to for 'All over India'. The specific risk details (if any) will be as per the attached policy. ROAD, D BY BEHALA CHANDRATAJOLATA, WEST BENGAL, KOLKATA, WEST BENGAL, INDIA.
Site	8	180000	
Labour	54	810000	

15. Subject to following clauses:

Special conditions:

- Subject additionally to the following conditions, limitations, warranties.
- Warranted that workers involved in underground work such as mining, tunneling, etc. under blasting are not covered.
- Jurisdiction - India.
- Including cover for Contractor and sub contractor workers.
- Including Medical expenses upto INR 100000 per person.
- Loss history for last 3 years: - Nil.

Subject to terms and Conditions of Employees Compensation Insurance Policy wordings attached herewith.

Date: 28-08-2024 13:42

PLACE OF SUPPLY: WEST BENGAL

STATE CODE: 35

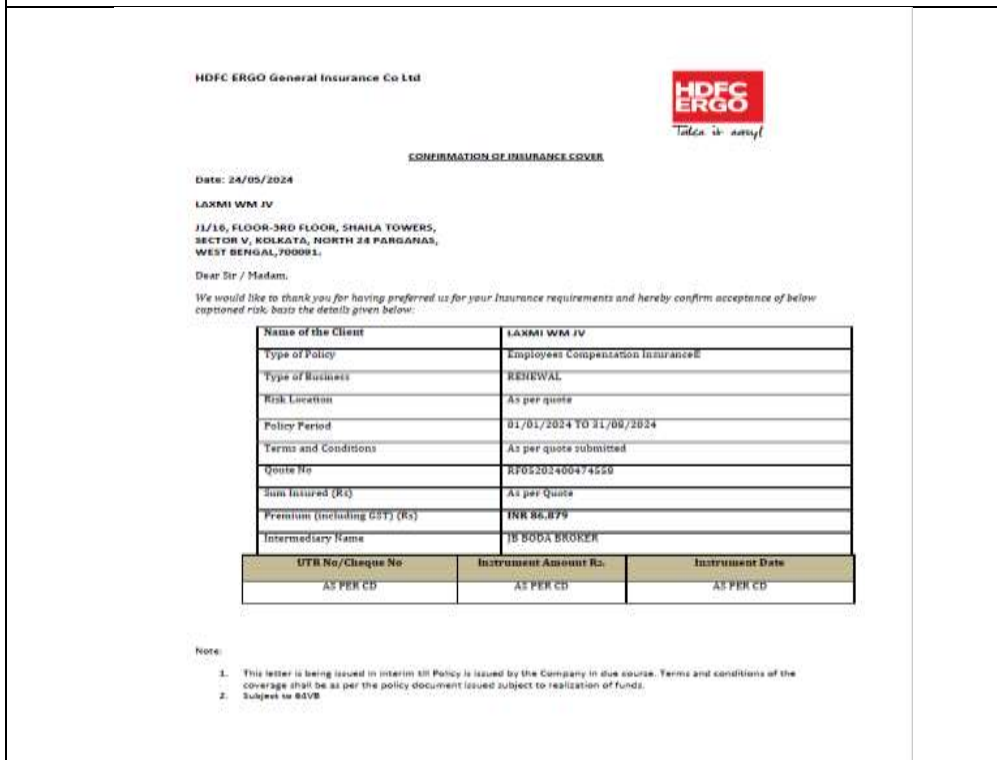
For Tata AIG General Insurance Co. Ltd.  
Digitally Signed By: Ahammi Kapoor  
Date: 28-08-2024  
Tata AIG General Insurance Co. Ltd.  
Location: Mumbai

**AUTHORIZED SIGNATORY**

**Workman comensation policy of SD-31 R 2**



**Labour Licence Certificate of SD 32**



**Workman comensation policy of SD-32**



Labour Licence Certificate of SD 34



Workman compensation policy of SD-34

**Appendix 6: Monitoring activities at project sites**



**Environmental monitoring at SD 311R2**



**Environmental monitoring at SD 34**



Appendix 7: Sample Site Inspection Report

*Joka Tram depot* Inspection Date - 27.6.2024

SAMPLE ENVIRONMENTAL SITE INSPECTION REPORT  
 Project Name: **KEIIP (RHC/STR) SD-28 2017-18** Inspector: **Rajni**

SAMPLE CHECKLIST FOR CONSTRUCTION SITE SAFETY INSPECTION

No.	Safety Issues	Yes	No	Not Applicable
1	Safety officer present on site (if required by regulation)	<input checked="" type="checkbox"/>		
2	Approval for construction work	<input checked="" type="checkbox"/>		
3	Good practices handed over to the contractor	<input checked="" type="checkbox"/>		
4	<b>Traffic Management:</b>			
5	• MFL		<input checked="" type="checkbox"/>	
6	• Barriers/barricades/traffic signs		<input checked="" type="checkbox"/>	
7	• Traffic sign board		<input checked="" type="checkbox"/>	
8	Flags and warning signs (Providing plastic crash barrier)		<input checked="" type="checkbox"/>	
9	Advisable signage & demarcation work height (over 1.8m)		<input checked="" type="checkbox"/>	
10	Demarcation (landings, grading and watering)		<input checked="" type="checkbox"/>	
11	• Night lighting, especially for night		<input checked="" type="checkbox"/>	
12	Controlled access and entry		<input checked="" type="checkbox"/>	
13	Safety arrangements for road users/pedestrians		<input checked="" type="checkbox"/>	
14	• Provision of worker safety equipment		<input checked="" type="checkbox"/>	
15	• Harness		<input checked="" type="checkbox"/>	
16	• Safety shoes		<input checked="" type="checkbox"/>	
17	• Dust masks		<input checked="" type="checkbox"/>	
18	• Safety belts		<input checked="" type="checkbox"/>	
19	• Protective jackets		<input checked="" type="checkbox"/>	
20	• Earplugs for labor		<input checked="" type="checkbox"/>	
21	• Raincoat/umbrella and apron/welding		<input checked="" type="checkbox"/>	
22	• Raincoat/umbrella (if available)		<input checked="" type="checkbox"/>	
23	<b>Health:</b>			
24	• Regular health checkup		<input checked="" type="checkbox"/>	
25	• First aid arrangement		<input checked="" type="checkbox"/>	
26	• Sanitary conditions/waste disposal		<input checked="" type="checkbox"/>	
27	• Drinking water		<input checked="" type="checkbox"/>	
28	<b>Ensure fire safety at site:</b>			
29	a) Fire extinguisher & sand bucket		<input checked="" type="checkbox"/>	
30	b) Covered fire stand		<input checked="" type="checkbox"/>	
31	c) Refill in state		<input checked="" type="checkbox"/>	
32	<b>Electrical safety at site:</b>			
33	• Warning sign		<input checked="" type="checkbox"/>	
34	• Insulated gear & rubber mat		<input checked="" type="checkbox"/>	
35	• Insulated protection		<input checked="" type="checkbox"/>	
36	<b>Cylinder:</b>			
37	a) Gas cylinder coat or		<input checked="" type="checkbox"/>	
38	b) Not usage of acetylene cylinder at site		<input checked="" type="checkbox"/>	
39	<b>Regulator:</b>			
40	• Good gas full		<input checked="" type="checkbox"/>	
41	• Closed pressure regulator		<input checked="" type="checkbox"/>	
42	• All gas cylinder regulator		<input checked="" type="checkbox"/>	
43	• P.P.C.		<input checked="" type="checkbox"/>	
44	• Leak - Reserve		<input checked="" type="checkbox"/>	
45	• Work on 1 Copper water		<input checked="" type="checkbox"/>	
46	• Emergency shut valve shut off		<input checked="" type="checkbox"/>	

Name: **Rajni Rajni**  
 Position: **SD Asst.**

Site inspection Report of SD 28

Inspection Date - 27.6.2024

SAMPLE ENVIRONMENTAL SITE INSPECTION REPORT  
 Project Name: **KEIIP (RHC/STR) SD-29 2017-18** Inspector: **Rajni**

SAMPLE CHECKLIST FOR CONSTRUCTION SITE SAFETY INSPECTION

No.	Safety Issues	Yes	No	Not Applicable
1	Safety officer present on site (if required by regulation)	<input checked="" type="checkbox"/>		
2	Approval for construction work	<input checked="" type="checkbox"/>		
3	Good practices handed over to the contractor	<input checked="" type="checkbox"/>		
4	<b>Traffic Management:</b>			
5	• MFL		<input checked="" type="checkbox"/>	
6	• Barriers/barricades/traffic signs		<input checked="" type="checkbox"/>	
7	• Traffic sign board		<input checked="" type="checkbox"/>	
8	Flags and warning signs (Providing plastic crash barrier)		<input checked="" type="checkbox"/>	
9	Advisable signage & demarcation work height (over 1.8m)		<input checked="" type="checkbox"/>	
10	Demarcation (landings, grading and watering)		<input checked="" type="checkbox"/>	
11	• Night lighting, especially for night		<input checked="" type="checkbox"/>	
12	Controlled access and entry		<input checked="" type="checkbox"/>	
13	Safety arrangements for road users/pedestrians		<input checked="" type="checkbox"/>	
14	• Provision of worker safety equipment		<input checked="" type="checkbox"/>	
15	• Harness		<input checked="" type="checkbox"/>	
16	• Safety shoes		<input checked="" type="checkbox"/>	
17	• Dust masks		<input checked="" type="checkbox"/>	
18	• Safety belts		<input checked="" type="checkbox"/>	
19	• Protective jackets		<input checked="" type="checkbox"/>	
20	• Earplugs for labor		<input checked="" type="checkbox"/>	
21	• Raincoat/umbrella and apron/welding		<input checked="" type="checkbox"/>	
22	• Raincoat/umbrella (if available)		<input checked="" type="checkbox"/>	
23	<b>Health:</b>			
24	• Regular health checkup		<input checked="" type="checkbox"/>	
25	• First aid arrangement		<input checked="" type="checkbox"/>	
26	• Sanitary conditions/waste disposal		<input checked="" type="checkbox"/>	
27	• Drinking water		<input checked="" type="checkbox"/>	
28	<b>Ensure fire safety at site:</b>			
29	a) Fire extinguisher & sand bucket		<input checked="" type="checkbox"/>	
30	b) Covered fire stand		<input checked="" type="checkbox"/>	
31	c) Refill in state		<input checked="" type="checkbox"/>	
32	<b>Electrical safety at site:</b>			
33	• Warning sign		<input checked="" type="checkbox"/>	
34	• Insulated gear & rubber mat		<input checked="" type="checkbox"/>	
35	• Insulated protection		<input checked="" type="checkbox"/>	
36	<b>Cylinder:</b>			
37	a) Gas cylinder coat or		<input checked="" type="checkbox"/>	
38	b) Not usage of acetylene cylinder at site		<input checked="" type="checkbox"/>	
39	<b>Regulator:</b>			
40	• Good gas full		<input checked="" type="checkbox"/>	
41	• Closed pressure regulator		<input checked="" type="checkbox"/>	
42	• All gas cylinder regulator		<input checked="" type="checkbox"/>	
43	• P.P.C.		<input checked="" type="checkbox"/>	
44	• Leak - Reserve		<input checked="" type="checkbox"/>	
45	• Work on 1 Copper water		<input checked="" type="checkbox"/>	
46	• Emergency shut valve shut off		<input checked="" type="checkbox"/>	

Name: **SUBHANKAR PART**  
 Position: **Project Assistant**

Site inspection Report of SD 29

Date of Inspection - 23/09/2024  
Date of Submission - 24/09/2024

SAMPLE ENVIRONMENTAL SITE INSPECTION REPORT

Project Name: KEIIP/NOA/TR-3/SD-31/2024 Weather condition: Cloudy

Initial site condition: Un satisfactory

SAMPLE CHECKLIST FOR CONSTRUCTION SITE SAFETY INSPECTION

Sl. No.	Safety Issues	Yes	No	Not Applicable
1	Safety officer/supervisor/site engineer during inspection	<input checked="" type="checkbox"/>		
2	Approval for construction SEMP	<input checked="" type="checkbox"/>		
3	Road structure handed over to the contractor	<input checked="" type="checkbox"/>		
4	<b>Traffic Management-</b>			
5	• TMR	<input checked="" type="checkbox"/>		
6	• Barriers/barricades/caution tapes	<input checked="" type="checkbox"/>		
7	• Traffic signboards	<input checked="" type="checkbox"/>		
8	• Flags and warning lights	<input checked="" type="checkbox"/>		
9	Provision of traffic sign barrier	<input checked="" type="checkbox"/>		
10	Adequate staging all deep excavations work (height more than 3m)	<input checked="" type="checkbox"/>		
11	Demarcation, fencing, grading and warning	<input checked="" type="checkbox"/>		
12	Sufficient lighting, especially at night	<input checked="" type="checkbox"/>		
13	Controlled access and entry	<input checked="" type="checkbox"/>		
14	Safety arrangements for road users/ pedestrians	<input checked="" type="checkbox"/>		
15	Construction worker safety equipment-			
16	• Helmets	<input checked="" type="checkbox"/>		
17	• Safety shoes	<input checked="" type="checkbox"/>		
18	• Dust masks	<input checked="" type="checkbox"/>		
19	• Hand gloves	<input checked="" type="checkbox"/>		
20	• Safety belts	<input checked="" type="checkbox"/>		
21	• Protective gearings	<input checked="" type="checkbox"/>		
22	• Conditions for labour	<input checked="" type="checkbox"/>		
23	Welder protective shields for welding	<input checked="" type="checkbox"/>		
24	Roussas horns (all vehicles)	<input checked="" type="checkbox"/>		
25	<b>Health-</b>			
26	• Regular health check-up	<input checked="" type="checkbox"/>		
27	• First aid arrangement	<input checked="" type="checkbox"/>		
28	Sanitary conditions/waste disposal	<input checked="" type="checkbox"/>		
29	Drinking water	<input checked="" type="checkbox"/>		
30	<b>Ensure fire safety at site-</b>			
31	a) Fire extinguisher & sand bucket	<input checked="" type="checkbox"/>		
32	b) Covered fire stand	<input checked="" type="checkbox"/>		
33	c) Staffing done	<input checked="" type="checkbox"/>		
34	<b>Electrical safety at site-</b>			
35	• Caution sign	<input checked="" type="checkbox"/>		
36	• Wooden plank/rubber mat	<input checked="" type="checkbox"/>		
37	• Insulated connection	<input checked="" type="checkbox"/>		
38	<b>Cylinder-</b>			
39	a) Gas cylinder position	<input checked="" type="checkbox"/>		
40	b) Non usage of domestic cylinder at site	<input checked="" type="checkbox"/>		
41	<b>Register-</b>			
42	• Tool box talk	<input checked="" type="checkbox"/>		
43	• Grievance register	<input checked="" type="checkbox"/>		
44	• Attendance register	<input checked="" type="checkbox"/>		
45	• PPE	<input checked="" type="checkbox"/>		
46	• Labour license	<input checked="" type="checkbox"/>		
47	• Workman Compensation	<input checked="" type="checkbox"/>		
48	Emergency Assembly point	<input checked="" type="checkbox"/>		

Name: Ramesh Chandra Mohan Position: Project Assistant

Name: Subhanakar Parth Position: Project Assistant

Site inspection Report of SD 31 Lot 1

SD-31R2 Date of Inspection - 27.10.2024

SAMPLE ENVIRONMENTAL SITE INSPECTION REPORT

Project Name: KEIIP/NOA/TR-3/SD-31R2/2019-20 Weather condition: Sunny Day

Initial site condition: Un satisfactory

SAMPLE CHECKLIST FOR CONSTRUCTION SITE SAFETY INSPECTION

Sl. No.	Safety Issues	Yes	No	Not Applicable
1	Safety officer/supervisor/site engineer during inspection	<input checked="" type="checkbox"/>		
2	Approval for construction SEMP	<input checked="" type="checkbox"/>		
3	Road structure handed over to the contractor	<input checked="" type="checkbox"/>		
4	<b>Traffic Management-</b>			
5	• TMR	<input checked="" type="checkbox"/>		
6	• Barriers/barricades/caution tapes	<input checked="" type="checkbox"/>		
7	• Traffic signboards	<input checked="" type="checkbox"/>		
8	• Flags and warning lights	<input checked="" type="checkbox"/>		
9	Provision of traffic sign barrier	<input checked="" type="checkbox"/>		
10	Adequate staging all deep excavations work (height more than 3m)	<input checked="" type="checkbox"/>		
11	Demarcation, fencing, grading and warning	<input checked="" type="checkbox"/>		
12	Sufficient lighting, especially at night	<input checked="" type="checkbox"/>		
13	Controlled access and entry	<input checked="" type="checkbox"/>		
14	Safety arrangements for road users/ pedestrians	<input checked="" type="checkbox"/>		
15	Construction worker safety equipment-			
16	• Helmets	<input checked="" type="checkbox"/>		
17	• Safety shoes	<input checked="" type="checkbox"/>		
18	• Dust masks	<input checked="" type="checkbox"/>		
19	• Hand gloves	<input checked="" type="checkbox"/>		
20	• Safety belts	<input checked="" type="checkbox"/>		
21	• Protective gearings	<input checked="" type="checkbox"/>		
22	• Conditions for labour	<input checked="" type="checkbox"/>		
23	Welder protective shields for welding	<input checked="" type="checkbox"/>		
24	Roussas horns (all vehicles)	<input checked="" type="checkbox"/>		
25	<b>Health-</b>			
26	• Regular health check-up	<input checked="" type="checkbox"/>		
27	• First aid arrangement	<input checked="" type="checkbox"/>		
28	Sanitary conditions/waste disposal	<input checked="" type="checkbox"/>		
29	Drinking water	<input checked="" type="checkbox"/>		
30	<b>Ensure fire safety at site-</b>			
31	a) Fire extinguisher & sand bucket	<input checked="" type="checkbox"/>		
32	b) Covered fire stand	<input checked="" type="checkbox"/>		
33	c) Staffing done	<input checked="" type="checkbox"/>		
34	<b>Electrical safety at site-</b>			
35	• Caution sign	<input checked="" type="checkbox"/>		
36	• Wooden plank/rubber mat	<input checked="" type="checkbox"/>		
37	• Insulated connection	<input checked="" type="checkbox"/>		
38	<b>Cylinder-</b>			
39	a) Gas cylinder position	<input checked="" type="checkbox"/>		
40	b) Non usage of domestic cylinder at site	<input checked="" type="checkbox"/>		
41	<b>Register-</b>			
42	• Tool box talk	<input checked="" type="checkbox"/>		
43	• Grievance register	<input checked="" type="checkbox"/>		
44	• Attendance register	<input checked="" type="checkbox"/>		
45	• PPE	<input checked="" type="checkbox"/>		
46	• Labour license	<input checked="" type="checkbox"/>		
47	• Workman Compensation	<input checked="" type="checkbox"/>		
48	Emergency Assembly point	<input checked="" type="checkbox"/>		

Name: Banga K Shaw Position: Project Assistant

Name: SAVITA SHAW Position: PM

Name: ATOS ADHUNIK JV Position: Project Manager

Site inspection Report of SD 31 R 2

**Improvement of S&D System in Muzcondapur Area (Part of hrd - 107)**  
**Intending construction of Pumping Station**

SAMPLE ENVIRONMENTAL SITE INSPECTION REPORT

Project Name: SD-32 Weather condition: Cloudy  
 Initial site condition: Date of Inspection: 22/10/24

Satisfactory  Unsatisfactory  Incident  Resolved  Unresolved

SAMPLE CHECKLIST FOR CONSTRUCTION SITE SAFETY INSPECTION

Sl. No.	Safety Issues	Yes	No	Not Applicable
1	Safety officer/supervisor/site engineer during inspection	<input checked="" type="checkbox"/>		
2	Approval for construction SEMP			
3	Road stretches handed over to the contractor			
4	<b>Traffic Management-</b>			
	• TMP			
	• barriers/barricades/caution tapes			
	• traffic signboards			
5	Flags and warning lights			
6	Providing plastic crash barrier			
7	Adequate staging all deep excavations works (height more than 3m)			
8	Dimensions (fencing, grading and watching)			
9	Sufficient lighting, especially for night			
10	Controlled access and entry			
11	Safety arrangements for road users/ pedestrians			
12	<b>Construction worker safety equipment-</b>			
	• Helmets			
	• Safety shoes			
	• Dust masks			
	• Hand gloves			
	• Safety belts			
	• Reflective jackets			
	• Earplugs for labour			
14	Welder protective sheets (for welding)			
15	Reverse horns (all vehicles)			
16	<b>Health-</b>			
	• Regular health check-up			
	• First aid arrangement			
18	Sanitary conditions/ waste disposal			
19	Drinking water			
20	<b>Ensure fire safety at site-</b>			
	a) Fire extinguisher & sand bouquet			
	b) Covered fire stand			
	c) Refilling data			
21	<b>Electrical safety at site-</b>			
	• Caution sign			
	• Wooden plank/rubber mat			
	• Insulated connection			
24	<b>Cylinder-</b>			
	a) Gas cylinder position			
	b) Non usage of domestic cylinder at site			
26	<b>Register-</b>			
	• Tool box talk			
	• Grievance register			
	• Attendance register			
	• PUC			
	• Labour license			
	• Workman Compensation			
26	Emergency Assembly point			

*Please Note:-*  
 Nearly Completion of the project's work.

Name: Mr. Suman Position: Project Assistant  
 Submitted on: 22/10/24

Name: Sanku Mohanty Position: Safety Officer  
 Contractor safety officer/engineer during inspection

Site inspection Report of SD 32

SAMPLE ENVIRONMENTAL SITE INSPECTION REPORT

Project Name: KEIIP/HRD/Tr-3/SP-11/2013-19 Weather condition: Strong day  
 Initial site condition: Date: 30/09/2024

Satisfactory  Unsatisfactory  Incident  Resolved  Unresolved

SAMPLE CHECKLIST FOR CONSTRUCTION SITE SAFETY INSPECTION

Sl. No.	Safety Issues	Yes	No	Not Applicable
1	Safety officer/supervisor/site engineer during inspection	<input checked="" type="checkbox"/>		
2	Approval for construction SEMP	<input checked="" type="checkbox"/>		
3	Road stretches handed over to the contractor	<input checked="" type="checkbox"/>		
4	<b>Traffic Management-</b>			
	• TMP			
	• barriers/barricades/caution tapes			
	• traffic signboards			
5	Flags and warning lights			
6	Providing plastic crash barrier			
7	Adequate staging all deep excavations works (height more than 3m)			
8	Dimensions (fencing, grading and watching)			
9	Sufficient lighting, especially for night			
10	Controlled access and entry			
11	Safety arrangements for road users/ pedestrians			
12	<b>Construction worker safety equipment-</b>			
	• Helmets			
	• Safety shoes			
	• Dust masks			
	• Hand gloves			
	• Safety belts			
	• Reflective jackets			
	• Earplugs for labour			
14	Welder protective sheets (for welding)			
15	Reverse horns (all vehicles)			
16	<b>Health-</b>			
	• Regular health check-up			
	• First aid arrangement			
18	Sanitary conditions/ waste disposal			
19	Drinking water			
20	<b>Ensure fire safety at site-</b>			
	a) Fire extinguisher & sand bouquet			
	b) Covered fire stand			
	c) Refilling data			
21	<b>Electrical safety at site-</b>			
	• Caution sign			
	• Wooden plank/rubber mat			
	• Insulated connection			
24	<b>Cylinder-</b>			
	a) Gas cylinder position			
	b) Non usage of domestic cylinder at site			
26	<b>Register-</b>			
	• Tool box talk			
	• Grievance register			
	• Attendance register			
	• PUC			
	• Labour license			
	• Workman Compensation			
26	Emergency Assembly point			

Name: Mr. Suman Position: Project Assistant  
 Submitted on: 28/10/24

Name: Mr. A. B. Mohanty Position: Safety Officer  
 Contractor safety officer/engineer during inspection

Site inspection Report of SD 34

## Appendix 8: Environmental Standards

## National Ambient Air quality Standards, 2009

[भाग III]—खण्ड 4]		भारत का राजपत्र : असाधारण		3	
NATIONAL AMBIENT AIR QUALITY STANDARDS					
CENTRAL POLLUTION CONTROL BOARD					
NOTIFICATION					
New Delhi, the 18th November, 2009					
No. B-29016/20/90/PCI-L—In exercise of the powers conferred by Sub-section (2) (b) of section 16 of the Air (Prevention and Control of Pollution) Act, 1981 (Act No.14 of 1981), and in supersession of the Notification No(s). S.O. 384(E), dated 11 <sup>th</sup> April, 1994 and S.O. 935(E), dated 14 <sup>th</sup> October, 1998, the Central Pollution Control Board hereby notify the National Ambient Air Quality Standards with immediate effect, namely:-					
NATIONAL AMBIENT AIR QUALITY STANDARDS					
S. No.	Pollutant	Time Weighted Average	Concentration in Ambient Air		
			Industrial, Residential, Rural and Other Area	Ecologically Sensitive Area (notified by Central Government)	Methods of Measurement
(1)	(2)	(3)	(4)	(5)	(6)
1	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Annual* 24 hours**	50 80	20 80	- Improved West and Gaeke - Ultraviolet fluorescence
2	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	Annual* 24 hours**	40 80	30 80	- Modified Jacob & Hochheiser (Na-Arsenite) - Chemiluminescence
3	Particulate Matter (size less than 10µm) or PM <sub>10</sub> µg/m <sup>3</sup>	Annual* 24 hours**	60 100	60 100	- Gravimetric - TOEM - Beta attenuation
4	Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub> µg/m <sup>3</sup>	Annual* 24 hours**	40 60	40 60	- Gravimetric - TOEM - Beta attenuation
5	Ozone (O <sub>3</sub> ) µg/m <sup>3</sup>	8 hours** 1 hour**	100 180	100 180	- UV photometric - Chemiluminescence - Chemical Method
6	Lead (Pb) µg/m <sup>3</sup>	Annual* 24 hours**	0.50 1.0	0.50 1.0	- AAS /ICP method after sampling on EPM 2000 or equivalent filter paper - ED-XRF using Teflon filter
7	Carbon Monoxide (CO) mg/m <sup>3</sup>	8 hours** 1 hour**	02 04	02 04	- Non Dispersive Infra Red (NDIR) spectroscopy
8	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	Annual* 24 hours**	100 400	100 400	- Chemiluminescence - Indophenol blue method

4

THE GAZETTE OF INDIA : EXTRAORDINARY

[PART III—Sec. 4]

(1)	(2)	(3)	(4)	(5)	(6)
9	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	Annual*	05	05	- Gas chromatography based continuous analyzer - Adsorption and Desorption followed by GC analysis
10	Benzo[a]Pyrene (BaP) - particulate phase only, ng/m <sup>3</sup>	Annual*	01	01	- Solvent extraction followed by HPLC/GC analysis
11	Arsenic (As), ng/m <sup>3</sup>	Annual*	06	06	- AAS/ICP method after sampling on EPM 2000 or equivalent filter paper
12	Nickel (Ni), ng/m <sup>3</sup>	Annual*	20	20	- AAS/ICP method after sampling on EPM 2000 or equivalent filter paper

\* Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

\*\* 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

Note. — Whenever and wherever monitoring results on two consecutive days of monitoring exceed the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.

SANT PRASAD GAUTAM, Chairman  
[ADVT-III/4/184/09/Exty.]

Note: The notifications on National Ambient Air Quality Standards were published by the Central Pollution Control Board in the Gazette of India, Extraordinary vide notification No(s). S.O. 334(E), dated 11<sup>th</sup> April, 1994 and S.O. 935(E), dated 14<sup>th</sup> October, 1998.

### Inland surface water categories (CPCB,1978)

The Central Pollution Control Board has classified the inland Surface water into five categories A to E. On the basis of their designated best use and the desired class. The principal concern has been the end use to which man may put to water. The classification has been made in such a manner that with the degradation in quality, the water quality requirement becomes progressively lower from A to E. The CPCB classification of the inland surface water is give as under: -

Designated Best Use	Class of Water	Criteria
Drinking water Source without Conventional treatment but after disinfections.	A	<ol style="list-style-type: none"> <li>Total coli form organisms MPN/100 ml shall be 50(max.)</li> <li>pH between 6.5 to 8.5</li> <li>Dissolved Oxygen (Min) 6 mg/l</li> <li>BOD (max) 5 days &lt; 2.00 mg/l</li> </ol>
Outdoor bathing(Organised)	B	<ol style="list-style-type: none"> <li>Total coli form organisms MPN/100 ml shall be 500 (max.)</li> <li>Fecal Coli form MPN/100 mg. to be 2500 (max.) for Ganga Action Plan.</li> <li>pH between 6.8 to 8.5.</li> <li>Dissolved Oxygen (min) 4 mg/l</li> <li>BOD (Max.) 5 days @ 3 mg/l</li> </ol>
Drinking water with conventional treatment Followed by disinfections	C	<ol style="list-style-type: none"> <li>Total coli form organisms MPN/100 ml shall be 5000 (max.)</li> <li>pH between 6.8 to</li> <li>Dissolved Oxygen (min) 4 mg/l</li> <li>BOD (max.) 5 days @ 3 mg/l</li> </ol>
Propagation of wild life Fisheries.	D	<ol style="list-style-type: none"> <li>pH between 6.5 to 8.5</li> <li>Dissolved Oxygen (min) 4 mg/l.</li> <li>Free Ammonia (as N) (max)1.2mg/l.</li> </ol>
Irrigation, industrial cooling, and Controlled disposal	E	<ol style="list-style-type: none"> <li>pH between 6.0 and 8.5</li> <li>Electrical conductivity less than 2250 micro mhos/cm,</li> <li>Sodium Aborption Ratio less than 26, and Boron less than 2 mg/l</li> </ol>

**SCHEDULE**

(see rule 3(1) and 4(1))

**Ambient Air Quality Standards in respect of Noise**

Area Code	Category of Area / Zone	Limits in dB(A) Leq*	
		Day Time	Night Time
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

- Note:-
1. Day time shall mean from 6.00 a.m. to 10.00 p.m.
  2. Night time shall mean from 10.00 p.m. to 6.00 a.m.
  3. Silence zone is an area comprising not less than 100 metres around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority
  4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.

\* dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.


A "decibel" is a unit in which noise is measured.

"A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.

Leq: It is an energy mean of the noise level over a specified period.

(Source: The Noise Pollution (regulation and control) rules, 2000 and its amendment in 2010 and 2012 )

Appendix 9: Health camp at Project Sites



**TEPL - SNET JV**  
23 MLD STP PROJECT AT RAJPIH SONARPUR, RANIA  
EMPLOYEE'S MEDICAL CHECK-UP

**1. Employee Details :**

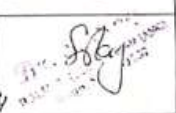
Name: Md. Ajad	ID No:	Company: TEPL
Age: (On last birthday) Yes	Sex:	Designation: Supervisor
Fathers Name: Md. Sandayar	Identification Mark: cut on Rt hand	
Residence Address: Vill - Singarpur Dist - Madhepura P. S. - Kishan Gunge, Bihar	Height: 5'4 1/2	Weight: 63 kg

**2. Details of Medical Examination Conducted: (To be filled by Certified Doctor Only)**

Date: 05.11.24	Place: Buxaria
General and physical examination do not reveal any abnormality. He does not suffer from any acute / chronic diseases, skin diseases, any contagious & infectious diseases and hearing impairment. Yes:- No:-	
Eye Sight: normal	Fever: NO
Hearing: normal	Colour Blindness: NO
Running Nose: NO	Blood Pressure: 120/90
Height Phobia: NO	Blood Group: /
Epilepsy: NO	Pulse Rate: 84/m
General Giddiness: NO	Cough: NO
	Symptom of Cold: NO
	Breathing Problem: NO
Any other observation (Symptoms): NO	

**3. Certified Doctor Details & Declaration:**



That in my Opinion he is Physically and Mentally Fit to perform the assigned work including work at height.

Name of Doctor: Sanjiv Roy	
Qualification:	
Address: Rawar, Jitana, Nalanda, 124154	

**4. Employee Signature :**

Signature of Employee: Md Ajad
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HEALTH CAMP AT SD 30 R


HEALTH CAMP AT SD 31 R2

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HEALTH CAMP AT SD 32

**Appendix 10: Public consultation at Project Sites**



**Kolkata Environmental Improvement Investment Program**



**Kolkata Environmental Improvement Investment Program**

**Participation Sheet for**

Village: 1132 Q.501 - 33, Date: 15/11/24, Time: 3:30 PM

Sl no	Name & Mobile no.	Age	Designation/ Unit	Signature
1	Geetama Das 8891889225	24	B.Sol.	Geetama Das
2	Rajshree Ghosal	22	H.S.	Rajshree Ghosal
3	Ujjwal Choudhary 9821234567	40	H.S.	Ujjwal Choudhary
4	Rishu Das 833 8242422	32	H.S.	Rishu Das
5	Soumitra Das 990321178	48	H.S.	Soumitra Das
6	Jyoti Das 982111	31	H.S.	Jyoti Das
7	Arjun Das 982111	28	H.S.	Arjun Das
8	Pradip Malli 982111	21	H.S.	Pradip Malli
9	Kamala Das 982111	41	H.S.	Kamala Das
10	Bidhan Das 982111	42	H.S.	Bidhan Das
11	Ranjit Mandal 982111	45	H.S.	Ranjit Mandal
12	Ujjwal Das 982111	32	H.S.	Ujjwal Das
13	Ujjwal Das 982111			Ujjwal Das
14	Sujit Khan 990347922	51	Teacher	Sujit Khan

**Participation Sheet for**

Village: 1132 Q.501 - 33, Date: 15/11/24, Time: 3:30 PM

Sl no	Name & Mobile no.	Age	Designation/ Unit	Signature
15	Jyoti Das 982111	30	H.S.	Jyoti Das
16	Dipankar Das 982111	42	H.S.	Dipankar Das
17	Jyoti Das 982111	17	H.S.	Jyoti Das
18	Partha Das 982111	44	H.S.	Partha Das
19	Rohini Das 982111	32	H.S.	Rohini Das
20	Soumitra Das 982111	54	H.S.	Soumitra Das
21	Tapas Kumar Das 982111	34	H.S.	Tapas Kumar Das
22	Sadhan Ghosh 982111	59	H.S.	Sadhan Ghosh
23	Chandana Das 982111	56	H.S.	Chandana Das

**Attendance sheet of Public Consultation at SD 30R**



**Public Consultation at SD 30R**

**COMMUNITY INTERACTION REPORT(AT PROJECT SITES)**

Name of Project: **BEHALA SEWERAGE PROJECT**  
 Package No: **KEIP/IND/79-2/2014/2018-19 Lot-1**  
 Contractor: **M/S. SIMPLEX INFRASTRUCTURES LTD**

Month: **AUGUST, 2024** Date: **01/08/2024 - 31/08/2024**

Sl. No.	Site	CONSTRUCTION/OPERATIONAL NAME	INDUSTRIAL NAME	ENVIRONMENTAL IMPACT	CONSTRUCTION/OPERATIONAL NAME	INDUSTRIAL NAME	ENVIRONMENTAL IMPACT
1	SD 31Lot 1	WATER TREATMENT PLANT	BEHALA	INDUSTRIAL	BEHALA	BEHALA	BEHALA

Project Chief: *[Signature]* Benefit Study: *[Signature]* Project Engineer (SI): *[Signature]*

Safety Officer (SO): *[Signature]* Benefit Study: *[Signature]* Project Engineer (SI): *[Signature]*

**COMMUNITY INTERACTION REPORT(AT PROJECT SITES)**

Name of Project: **BEHALA SEWERAGE PROJECT**  
 Package No: **KEIP/IND/79-2/2014/2018-19 Lot-1**  
 Contractor: **M/S. SIMPLEX INFRASTRUCTURES LTD**

Month: **JULY, 2024** Date: **01/07/2024 - 31/07/2024**

Sl. No.	Site	CONSTRUCTION/OPERATIONAL NAME	INDUSTRIAL NAME	ENVIRONMENTAL IMPACT	CONSTRUCTION/OPERATIONAL NAME	INDUSTRIAL NAME	ENVIRONMENTAL IMPACT
1	SD 31Lot 1	WATER TREATMENT PLANT	BEHALA	INDUSTRIAL	BEHALA	BEHALA	BEHALA

Project Chief: *[Signature]* Benefit Study: *[Signature]* Project Engineer (SI): *[Signature]*

Safety Officer (SO): *[Signature]* Benefit Study: *[Signature]* Project Engineer (SI): *[Signature]*

**Attendance sheet of Public Consultation at SD 31Lot 1**



**Public Consultation at SD 31Lot 1**





**Community Consultation at SD32**

**Appendix 11: Toolbox Training**



SAFETY TOOL BOX TALK			
Rania 23 MLD STP, KEIP/ SD-30R, Date :- 24/11/2024			
Discussion :- Use of P.P.E. , Safe works at height, Electrical Safety.			
Attendance			
sno	Names	Sex	Signature
1	Bikash Bagh	M	[Signature]
2	Asit Pal	M	[Signature]
3	Krishna Das	M	[Signature]
4	Rakesh Bagh	M	[Signature]
5	Balraj Bagh	M	[Signature]
6	Mahesh Yadav	M	[Signature]
7	Ujjwal Sankar	M	[Signature]
8	Rajib Hazra	M	[Signature]
9	Santosh Hazra	M	[Signature]
10	Pratik Mandal	M	[Signature]
11	Manoj Bagh	M	[Signature]
12	Rintu Sik	M	[Signature]
13	Rajesh Sik	M	[Signature]
14	Asit Pal	M	[Signature]
15	Bikash Bagh	M	[Signature]
16	Kanchan Das	M	[Signature]
17	Subodh Das	M	[Signature]
18	Krishna	M	[Signature]
19	Kishan	M	[Signature]
20	Ishak Sik	M	[Signature]
21	Sahar Sik	M	[Signature]
22	Soumitra	M	[Signature]
23	Ujjwal Mandal	M	[Signature]
24	Banani Das	M	[Signature]
25	Maharaj Mukherjee	M	[Signature]
26	Sanku Mukherjee	M	[Signature]
27	Soumitra	M	[Signature]
28	Soumitra	M	[Signature]
29	Soumitra	M	[Signature]
30	Soumitra	M	[Signature]
31	Soumitra	M	[Signature]
32	Soumitra	M	[Signature]
33	Soumitra	M	[Signature]
34	Soumitra	M	[Signature]
35	Soumitra	M	[Signature]

Name and Signature of Safety Engineer of Contractor :- Sachin Ghosh

Name and Signature of monitoring Person of DSC:-

Attendance sheet of training at SD-30R



SAFETY TOOLBOX TALK CONDUCTED AT SD-30R

**Attendance sheet of training at SD-31LOT1**



**SAFETY TOOLBOX TALK CONDUCTED AT SD-31Lot1**

ATOC AIRBORNE				
Training Details: PPE, HOT WORK, BEHAVIORAL SAFETY, ATTITUDE DURING WORK, WEAR				
Conducted by: SA MIKAT ALI				
Location: THAKUR PUKUR DEERHAT ROAD SHAF 1A				
Date & Time: 02/08/2024 7:30 AM				
Sl No.	Name of the Person	Occupation	Company Name	Signature
1	Imran Sk.	Helper	S&B	Imran Sk
2	Saidul Sk.	"	"	Saidul Sk
3	Ghulam Sk.	"	"	Ghulam Sk
4	Sujan Sk.	"	"	Sujan Sk
5	Sahabul Sk.	"	"	Sahabul Sk
6	Imdadul Islam	"	"	Imdadul Islam
7	Anwar Ali	"	"	Anwar Ali
8	Roni Sk.	"	"	Roni Sk
9	Nasim Sk.	"	"	Nasim Sk
10	Sadagar Ali	"	"	Sadagar Ali
11	Saidul Khan	Mason	S&B	Saidul Khan
12	Munir Sk.	Helper	"	Munir Sk

Attendance sheet of training at SD-31R2



SAFETY TOOLBOX TALK CONDUCTED AT SD-31R2



**SAFETY TOOLBOX TALK CONDUCTED IN PACKAGE SD-34**

### Appendix 12: Good Practices at Project Site



Availability of first-aid box



Rubber mat used in front of main panel board



Assembly point



Alert Posters on Electrical Equipment





**Steel sheet road surface with hard barricading at project site**



**Project description board at site**



**Secure cylinders in an upright position**



**Volunteers are engaged at project site**

### Appendix 13: Sample Grievance Redress Form

The **Kolkata Environmental Improvement Investment Program (KEIIP)** welcomes complaints, suggestions, queries and comments regarding project implementation. We encourage persons with grievance to provide their name and contact information to enable us to get in touch with you for clarification and feedback.

Should you choose to include your personal details but want that information to remain confidential, please inform us by writing/typing **\*(CONFIDENTIAL)\*** above your name. Thank you.

<b>Date</b>		<b>Place of registration</b>			
<b>Contact Information/Personal Details</b>					
<b>Name</b>		<b>Gender</b>	<b>Male</b> <b>Female</b>	<b>Age</b>	
<b>Home Address</b>					
<b>Village / Town</b>					
<b>District</b>					
<b>Phone no.</b>					
<b>E-mail</b>					
<b>Complaint/Suggestion/Comment/Question Please provide the details (who, what, where and how) of your grievance below:</b>					
<b>If included as attachment/note/letter, please tick here:</b>					
<b>How do you want us to reach you for feedback or update on your comment/grievance?</b>					

#### FOR OFFICIAL USE ONLY

<b>Registered by: (Name of official registering grievance)</b>	
<b>If – then mode:</b>	
<ul style="list-style-type: none"> <li>• Note/Letter</li> <li>• E-mail</li> <li>• Verbal/Telephonic</li> </ul>	
<b>Reviewed by: (Names/Positions of Official(s) reviewing grievance)</b>	
<b>Action Taken:</b>	
<b>Whether Action Taken Disclosed:</b>	<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
<b>Means of Disclosure:</b>	

#### GRIVENCE REDRESS REGISTAR GRIVENCES RECORD AND ACTION TAKEN

Sr. No.	Date	Name and Contact No. of Complainer	Type of Complain	Place	Status of Redress	Remarks

**GRIEVANCE REDRESSAL REGISTER**

Name of Project: BEHALA SEWERAGE PROJECT

Package No: KEIIP/NCB/TR-3/SD31/2018-19 Lot -1

Month: AUGUST,2024

Date: 01/08/2024 - 31/08/2024

Sr No.	DATE	COMPLAINT THROUGH (PHONE/LETTER/SITE)	NAME OF COMPLAINER	COMPLAINT DETAILS	ACTION TAKEN BY CONTRACTOR / PIU / PMD / CSC	DATE CASE RESOLVED (DAYS REQUIRED)	REMARKS FURTHER ACTION IF ANY
244.	20.08.2024	On site	House No. 13/2, Uttar para Ward No, 143. Kolkata - 104.	During excavation work for house connection the 1/2" uPVC pipe with metal socket, elbow were damaged.	Immediately the damaged pipe was maintained by Simplex maintenance team with safe manner.	One day	Site Engineer / DSC
245	25.08.2024	On site	House No., Srijani main road, Ward No, 143. Kolkata - 104	During excavation work for main RCC line the 110mm uPVC pipe with metal socket, 93mm reducer were damaged.	Immediately the damaged pipe was maintained by Simplex maintenance team with safe manner.	Two days	Site Engineer / DSC
246	25.08.2024	On site	House No., Canal West, Ward No, 143. Kolkata - 104	During excavation work for house connection the 1/2" uPVC pipe with metal socket, elbow were damaged.	Immediately the damaged pipe was maintained by Simplex maintenance team with safe manner.	Two days	Site Engineer / DSC
247	26.08.2024	On site	House No., Uttar para, Ward No, 143. Kolkata - 104	During excavation work for main RCC line the 160mm uPVC pipe was damaged.	Immediately the damaged pipe was maintained by Simplex maintenance team with safe manner.	One day	Site Engineer / DSC

Joydeb Ghosh

Biswajit Maity

Abhijit Kumar Das

*Joydeb Ghosh*  
Safety Officer



*Biswajit Maity*  
DSC/Engineer



**Sample Grievance Record of SD 31 lot 1**