



Environmental Monitoring Report

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Semestral Report: January 2024 June 2024
August 2025

India: Kolkata Environmental Improvement Investment Program - Tranche 2

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 3413-IND
Period Covered: January to June 2024**

July 2024

**IND: KOLKATA ENVIRONMENTAL IMPROVEMENT
INVESTMENT PROGRAM (KEIIP) – Project 2**

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



**KOLKATA ENVIRONMENTAL IMPROVEMENT
INVESTMENT PROGRAM (KEIIP) – PROJECT 2**

PROJECT MANAGEMENT UNIT

15th

**SEMI ANNUAL ENVIRONMENTAL MONITORING REPORT
TRANCHE 2**

**ADB Loan 3413-IND
(Period January to June, 2024)**

July 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 Organization
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 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 sanctioned US \$100 million for Tranche 1, US \$200 million for Tranche 2 and US \$100 million for Tranche 3 work. The total investment duration for Tranche 1, 2 & 3 is from 2014 to 2023.
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 out-dated 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 2 (Project 2)** is shown in Annexure 1.

B. Project & Report Purpose

5. The environmental impacts of the sub projects under **Tranche 2** were assessed through Initial Environmental Examination (IEE), prepared according to ADB Safeguard Policy (SPS 2009) and has been classified as environmental assessment **category B** (some negative impacts but less significant than category A) by ADB.
6. This report is the semi-annual environment monitoring report (SEMR) covering period from **January to June 2024** and describes the implementation of the environmental management plan (EMP) in respect of each subproject of Tranche 2 as laid down in the approved IEE.

II IMPLEMENTATION PROGRESS

A. Status of Subprojects under Tranche 2

7. On date total 18 packages under Tranche 2 have been finalized. The balance work of one additional water supply package i.e. WS 01 under Tranche 1 has been transferred to Tranche 2, hence the progress of work under this package is also considered under this SEMR. Therefore, there are 8 sewerage and drainage (S&D) packages and 10 (including WS 01) water supply (WS) packages. Out of these 3 S&D packages (SD 9, SD 12, SD 13, SD 14 and SD 22) and 5 WS packages (WS 01, WS 15, WS 16, WS 17B, WS 20, WS 24, 26B and 33) have already been completed and handed over to executing authority, hence progress of these 7 number of packages have not been considered under this SEMR. Among all awarded packages, works are at different stages of implementation at 4 S&D and 3 WS packages. Table 1 shows the summary of subprojects (packages) under implementation stage along with their progress of work, schedule date of completion and physical progress percentage in Tranche 2 as on 30th June 2024. This same is also illustrated in **Figure 1** and **Figure 2**. Photo illustration of ongoing packages have been presented in Appendix 2.

8 8

Table 1: Summary of Subprojects under KEIIP Tranche 2 (on 30th June 2024)

Package Name and No.	Summary of Progress of Work	Start date & Target date of completion	% Physical Progress as on 30 th June 2024
Sewerage and Drainage Network in Rania Box catchment (Part of Ward 111, 112 & 113) in Borough XI (KEIIP/NCB/Tr 2/SD-10T /2015-16)	<ul style="list-style-type: none"> 11720 RMT pipe laying is completed. 500 Nos of house connection provided out of 1000Nos. 	18.10.2019-30.11.2024	76%
Sewerage and Drainage Network in Vivekananda road catchment (part of ward no 113& 114) and construction of Pumping station in borough-xl KEIIP/NCB/Tr2/SD-11T /2016-17	<ul style="list-style-type: none"> 9400 RMT pipe laying completed 580 Nos of household drainage connection provided out of 900 Nos. 	20.11.2019-30.11.2024	74%
Development of Sewerage & Drainage Network within James Long Sarani and Mahatma Gandhi Road Catchment in Borough XVI (Part of Ward no. 123 & 124) (KEIIP/NCB/Tr 2/SD-13/2015-16)	<ul style="list-style-type: none"> 11485 RMT sewer line laid out of 12235 RMT completed 1549 Nos household drainage connection completed out of 1550Nos. 	05.12.2016-30.08.2024	92%
Construction of Underground Reservoirs & Overhead Reservoirs, Pumping Stations & Linking Pumping Station Mains for	<ul style="list-style-type: none"> Construction of UGR I at Prantik completed Construction of UGR II at Julpia completed 	05.12.2016-31.12.2022	99.09%
Water Supply in Joka & Adjoining Areas including operation & maintenance of the pumping station KEIIP/NCB/Tr 2 /WS 15/2015-16	<ul style="list-style-type: none"> Construction of ESR-1 at Prantik, ESR-II at N-E SSE STP, ESR-III at N-W SSE STP, ESR-IV at Julpia, ESR-V at WBSETCL and ESR-VI at 22 Bigha completed. 		
Laying of Transmission Main from Daspara PS to UGRs at Prantik PH-III , KMC Land on Julpia Road ; and Transmission Main from PS to zonal Reservoirs KEIIP/NCB/Tr 2/WS 16/2015-16	<ul style="list-style-type: none"> Laying of 15.94 Km of MS pipeline completed 	19.05.2017-28.02.2023	99.68%

Package Name and No.	• Summary of Progress of Work	Start date & Target date of completion	% Physical Progress as on 30 th June 2024
Laying of Water Supply distribution network including providing household service connection in 4 distribution service areas in Joka & adjoining areas for the command area under proposed ESRs at Prantik Ph-III,N-E of SSE STP and N-W of SSE STP& existing ESR at Prantik KEIIP/Tr 2/WS 17A/2016-17	<ul style="list-style-type: none"> • Laying of DI pipe of 86.29 Km completed out of 88.41Km • 32.78 Km MS pipeline has been laid • 3657 Nos of household drainage connection completed outof 4440 Nos. 	17.06.2017-31.08.2024	86.50%
Laying of Water Supply distribution network including providing household service connection in 4 distribution service areas in Joka & adjoining areas for command area under proposed ESRs at Company Pukur, WBSETCL & 22 Bigha& Existing ESR at Diamond Park KEIIP/Tr 2/WS 17B/2016-17	<ul style="list-style-type: none"> • Laying of DI pipe of 79.92 Km completed out of 80.16Km • 28.01Km MS pipeline has been laid out of 28.93 Km • 4506 Nos of household drainage connection completed outof 4506 Nos. • Only commissioning work is going now 	17.06.2017-30.06.2024	98%
Laying of Transmission Main from pumping station to proposed 3ESRs at Ramkantapur, Malpara, Charaktala & Construction of the 3 ESRs including laying of Distribution Network with House service connection within the Command Area of the 3 ESRs for Water Supply in Joka and adjoining areas KEIIP/NCB/Tr 2/WS 18/2016-17	<ul style="list-style-type: none"> • 78.14 Km of DI & MS pipeline laying completed out of 78.25 Km • ESR-1 at Charaktala(1200KL) is Physically Completed. • ESR-2 at Malpara (1500KL) is Physically Completed. • 90% of construction of ESR-3 at Ramkantapur is done. • 3142 Nos of house connection provided out of 7000 Nos. 	15.05.2017-31.08.2024	90%

Package Name and No.	Summary of Progress of Work	Start date & Target date of completion	% Physical Progress as on 30 th June 2024
Development of S & D Network in Tolly's Nullah/ Keorapukur canal Sub-basin in part of Wards 115 & 122 including construction of a SWF pumping station in the premises of Kudghat LS – 5 and augmentation of Keorapukur MPS (KEIIP/NCB/Tr 2/SD 19/ 2016-17)	<ul style="list-style-type: none"> • 7700m pipe laying is completed out of 8000 m • Construction of 562 manholes completed • 999 Nos. of house drainage connection provided out of 1055 Nos. 	18.09.2017-30.10.2024	86.70%
Construction of Pumping Station to handle Sludge Water of Garden Reach Water Works (GRWW) (KEIIP/NCB/Tr 2/WS- 20/ 2020-22)	<ul style="list-style-type: none"> • Pump house- inside & outside wall plastering work completed • CESC room, Guard room & office room-inside & outside wall plastering and painting work completed. • Construction of road inside pump house completed. • construction of boundary fencing is almost completed • Pump house area development & finishing work ongoing. 	23.12.2020 to 31.01.2023	100%
Development of S&D Network in Churial Extension Canal sub basin in Borough XIII & XVI (Part of Ward No. 122, 123, 124) including laying of main trunk sewer by micro-tunneling method and construction of Churial Extension Pumping Station (KEIIP/NCB/Tr 2/SD- 22/ 2016-17)	<ul style="list-style-type: none"> • 16.80 Km RCC pipeline laying done out of 16.80 Km by opencut method • 3.68Km micro tunnelling has been done out of 3.68 Km • construction of pump house is Physically completed • 1652 Nos of household drainage connection has been done out of 1652Nos. 	04.06.2018-31.05.2024	98%

Package Name and No.	Summary of Progress of Work	Start date & Target date of completion	% Physical Progress as on 30 th June 2024
Performance Based Contract for Water Loss Management in Anandapur Area and Patuli Area under Jai Hind WTP KEIIP/NCB/TR-2/WS25/2017-18	<ul style="list-style-type: none"> • 22 DMA works out of 22 DMA are completed • 31.48 Km pipe laying completed out of 32 Km. • 9583 Nos of domestic meter is installed out of 22000 Nos. 	04.10.2018-30.09.2024	92.34 %
Performance Based Water Loss Management Works at Cossipore Service Zone, Ward No. 1 to 6 (KEIIP/NCB/TR-2/WS-01/2017-18)	<ul style="list-style-type: none"> • 19 DMA creation completed • Total 27.7Km pipe laying completed • 101 Km pipe laying in distribution network completed out of 101Km. • 17692 Nos of household connection provided out of 18050Nos 	01.07.2020-31.01.2023	100%

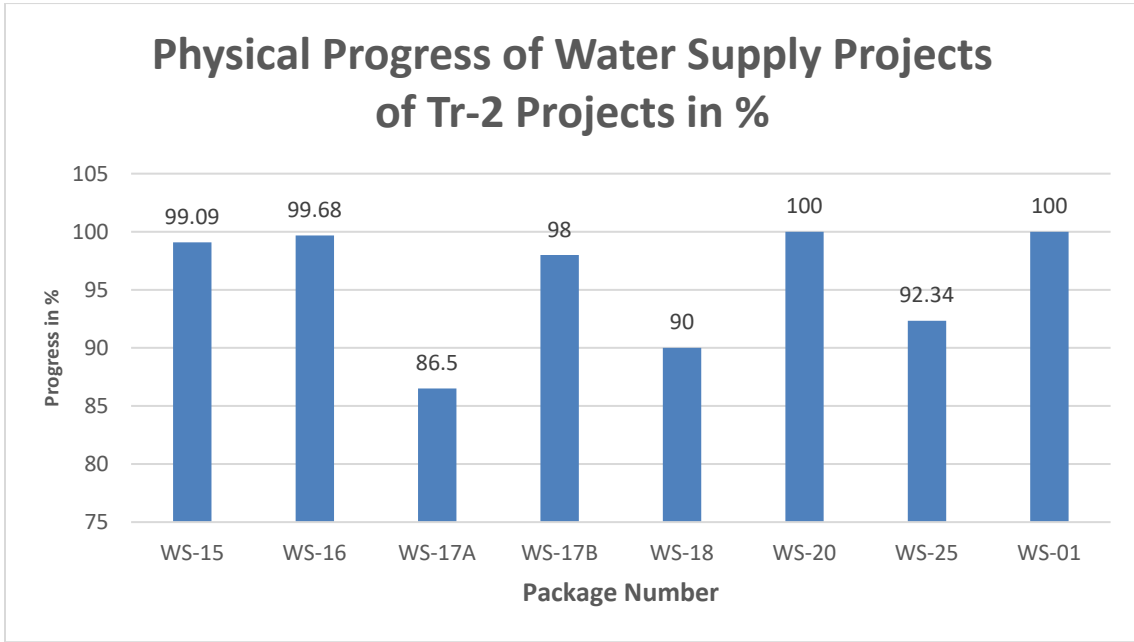


Figure 1: Physical progress of Water Supply packages under Tranche-2 up to June 2024

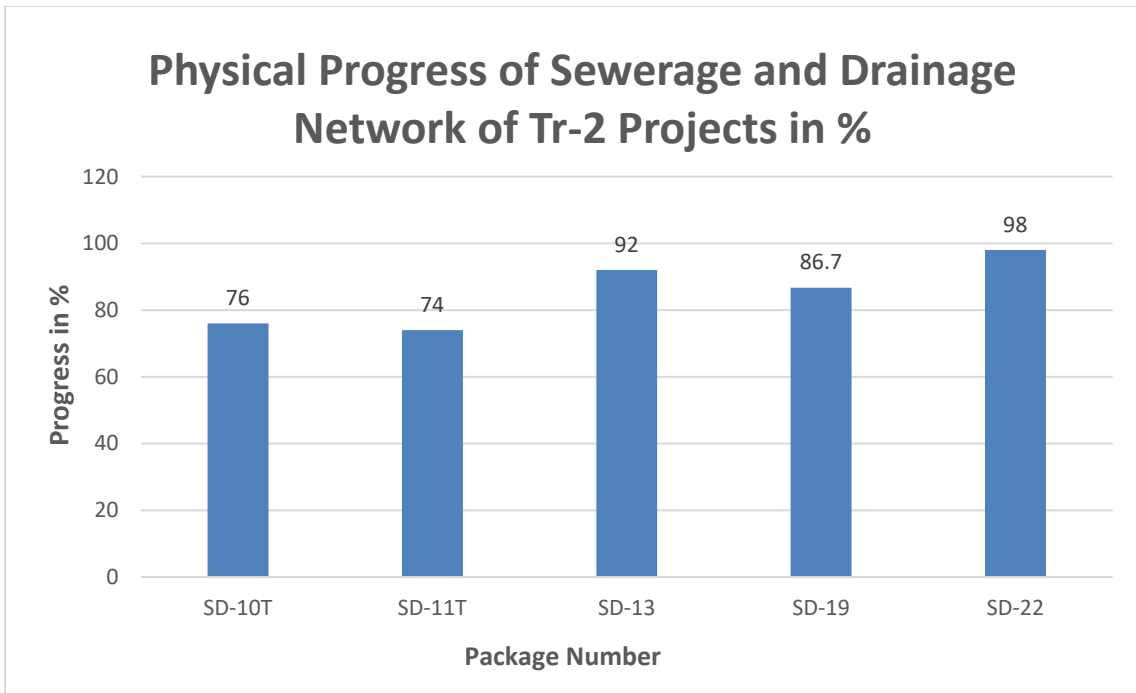


Figure 2: Physical progress of Sewerage and Drainage Network packages under Tranche-2 up to June 2024

B. Compliance of Safeguard Loan Covenants

8. The loan agreement for KEIIP Project 2 was signed on 21st November 2016 and details are available in ADB website (<http://www.adb.org/projects/documents/loan-3413-ind-keiip-t2-mlo1>). **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. as per loan agreement	Program Specific Covenants	Status / Issues
Environment		
7	<p>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 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>Under compliance Document is prepared/ or under preparation by complying all relevant State and National Laws, Safeguard Policy Statement (SPS 2009) of ADB, Environment Assessment Review Framework (EARF) for Tranche-2 program. For Tranche 2 project Initial Environmental Examination (IEE), Environment Management Plan (EMP) report prepared and approved by ADB.</p> <p>IEE for Sewage and Drainage for Tranche 2 has been updated and that report has already been disclosed in ADB website on September 2016. Sewerage & Drainage IEE updated last on March 2018 due to revision of scope after DPR and submitted to ADB.</p> <p>IEE for water supply for Tranche 2 has already been disclosed in ADB website on April 2016. Updated version submitted to ADB on April 2017. Water Supply IEE updated last on August 2018 due to revision of scope after DPR. Updated Report disclosed on August 2018 IEE will be revised further in case of any change of scope and location.</p> <p>All measures and requirements as prescribed in IEE/EIA and EMP are</p>

		<p>being considered during implementation.</p> <p>Corrective or preventive action plans have been reflected in Environment Monitoring Report and project implementation authority is taking care of such actions when required.</p>
<p>Human and Financial Resources to Implement Safeguards Requirements</p>		
<p>11</p>	<p>The Borrower shall make available, or cause the EA to make available, all necessary budgetary and human resources to fully implement the EMP required.</p>	<p>Complied Budgetary provisions have been included in EMP of Tranche 2 project An Environment Specialist has been placed in Project Management Unit and heading Safeguard Monitoring Unit. Human resource (project consultant, i.e. Environmental Specialist of DSC) for implementation of EMPs is in place for regular monitoring to secure complete compliance.</p>
<p>Safeguards – Related Provisions in Bidding Documents and Works Contracts</p>		
<p>12.</p>	<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: (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>Under compliance (a) Approved IEE, EMP for Tranche 2 project is attached in Bidding documents. This process will be followed for all the sub projects within the present Tranche. In case of any change of scope, revised IEEs with EMP(s) will be prepared and corrective measures will be disclosed to the contractor and same will be reflected in the “Environment Monitoring Report”. IEE for Sewage and Drainage for Tranche 2 has been updated and that report has already been disclosed in ADB website on September 2016. Sewerage & Drainage IEE updated last on March 2018 due to revision of scope after DPR and submitted to ADB.</p>

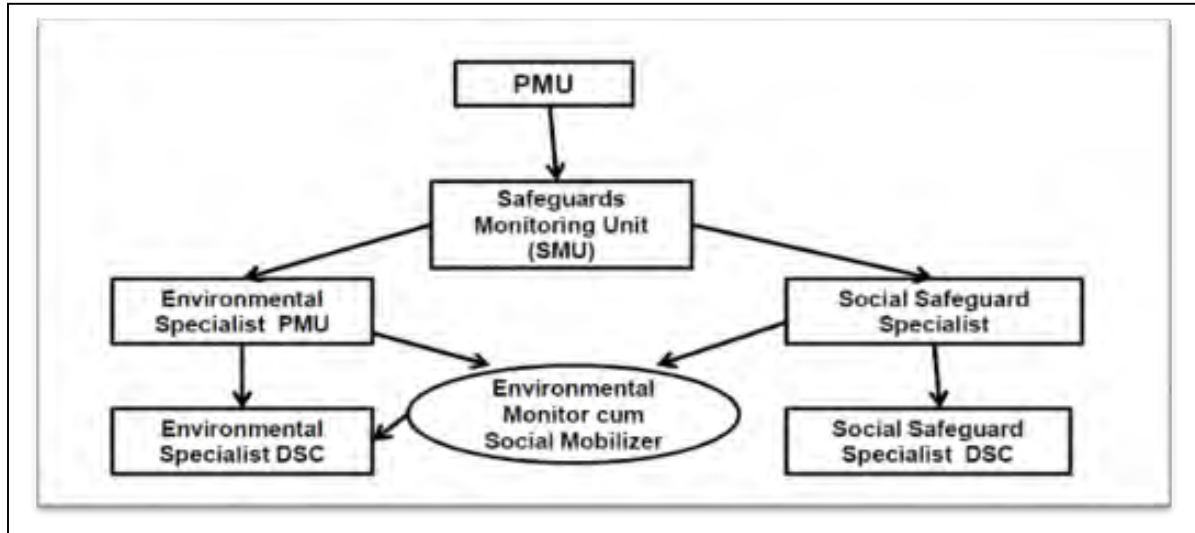
	<p>(b) make available a budget for all such environmental measures;</p> <p>(c) provide the EA with a written notice of any unanticipated environmental risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, the RP or the IPP;</p> <p>(d) adequately record the condition of roads, agricultural 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>IEE for water supply for Tranche 2 has already been disclosed in ADB website on April 2016. Updated version submitted to ADB on April 2017. Water Supply IEE updated last on August 2018 due to revision of scope after DPR. Updated Report disclosed on August 2018</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 that 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 before commencement of transportation of materials.</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>
<p>Safeguards Monitoring and Reporting</p>		
<p>13</p>	<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</p>	<p>Under compliance</p> <p>(a) This is 15th Semi-annual safeguard monitoring report on Environment for Project 2 (Tranche 2) for the period January to June, 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</p>

	<p>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>accordingly Executing Agency (EA) 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 & 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>
Prohibited List of Investments		
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 the SPS.</p>	<p>Complied Under Tranche -2, there is no violation of prohibited investment activities as per ADB SPS (2009).</p>
Other Social Measures		
15	<p>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>	<p>Complied in Bid documents and being complied during implementation Provision are included (as per EMP & 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. In case of any breach of provision, necessary corrective measures as per contract clauses shall be taken. All activities including awareness program will be reflected in “Monitoring Report”.</p>

C. Implementation Arrangement

9. The institutional arrangement follows KEIIP’s organizational structure and functions (**Figure 3**). 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 ensure that (i) environmental safeguard issues are addressed; (ii) EMP/approved Site Environment Plan (SEP) 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 3 : Institutional Arrangement – Safeguard

10. PMU is supported by the Design and Supervision Consultants (DSC). An Environment Specialist is in place to ensure: (i) EMP/ approved SEP 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
- (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 SEP;
- (iii). Briefing of his staff, employees, and Labours about the requirements of the EMP/ approved SEP;
- (iv). Ensuring that any 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 SEP 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

13. Environment Officer and Construction manager of DSC visited all construction sites every month and arranged onsite training program for contractors 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 Safeguard Monitors in PMU	Name: Mrs. Runkini Ghosh Office Address: Unnayan Bhawan, 206 A. J. C Bose Road, Kolkata 700017 Phone:033 2283 0169 Email:pdkeip@gmail.com, rdas085@gmail.com
DSC, Environment Specialist	Name: Dr. Bidisha Mukherjee Office Address: Unnayan Bhawan, 206 A. J. C Bose Road, Kolkata 700 017 Phone:033 2283 0044 Email:bidisha1809@gmail.com keiipenvs@gmail.com
DSC, Environmental Engineer	Name: Anushka Chakraborty Office Address: Unnayan Bhawan, 206 A. J. C Bose Road, Kolkata 700 017 Phone:033 2283 0044 Email: anushkachakraborty355@gmail.com , keiipenvs@gmail.com

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 2** present status of Environment, forest and other clearances are mentioned below.

Table 4: Status of Compliance(Ongoing Packages) with National and State Legal Requirements (up to 30th June 2024)

Package	Main package work	National and State Legal Requirement Applicable to the sub-project	Status	Conditions of the Clearance /NOCs
KEIIP/NCB/Tr 2/SD-10T/2015-16	Sewerage & Drainage Sewerage and Drainage Network in Rania Box catchment (Part of Ward 111, 112 & 113) in Borough XI	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)	Are being followed	Provisions of the acts will be implemented during construction work.
KEIIP/NCB/Tr 2/SD-11T/2016-17	Sewerage & Drainage: Sewerage and Drainage Network in Vivekananda Road Catchment (Part of Ward 113 & 114) & construction of a Pumping Station in Borough XI including Operation & Maintenance of the Pumping Station	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)	Are being followed	Provisions of the acts will be implemented during construction work.

Package	Main package work	National and State Legal Requirement Applicable to the sub-project	Status	Conditions of the Clearance /NOCs
		and Consent to Operate (CTO)		
KEIIP/NCB/Tr 2/SD-13/2015-16	Development of Sewerage & Drainage Network within James Long Sarani and Mahatma Gandhi Road catchment in Borough XVI (Part of Ward no. – 123 & 124)	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)	Are being followed Types of Generator (acoustic) are being used. Do not require CTE and CTO	
KEIIP/NCB/ Tr 2 /WS 15/2015-16	Construction of Underground Reservoirs and Overhead Reservoirs, Pumping Stations and linking Pumping station mains for water supply in Joka and adjoining areas including Operation & Maintenance of the Pumping station	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)	Are being followed Types of Generator (acoustic) are being used. Do not require CTE and CTO	
KEIIP/NCB/Tr 2/WS 16/2015-16	Laying of Transmission Main from existing Daspara PS to UGRs at Prantik Phase III, KMC land on Julpia Road and Transmission main from PS to zonal reservoirs	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)	Are being followed Types of Generator (acoustic) are being used. Do not require CTE and CTO	

Package	Main package work	National and State Legal Requirement Applicable to the sub-project	Status	Conditions of the Clearance /NOCs
		and Consent to Operate (CTO)		
KEIIP/Tr 2/WS 17A/2016-17	Laying of water supply distribution network including providing household service connection in 4 distribution service areas in Joka and adjoining areas for the command area under proposed ESRs at Prantik Ph III, NE of SSE STP and NW of SSE STP and existing ESR at Prantik	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)	Are being followed Types of Generator (acoustic) are being used. Do not require CTE and CTO	
KEIIP/Tr 2/WS 17B/2016-17	Laying of water supply distribution network including providing household service connection in 4 distribution service areas in Joka and adjoining areas for the command area under proposed ESRs at Companyukur (KMC land at Julpia road), WBSETCL, 22 Bigha and existing ESR at Diamond 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)	Are being followed Types of Generator (acoustic) are being used. Do not require CTE and CTO	
KEIIP/NCB/Tr 2/WS 18/ 2016-17	Laying of Transmission main from pumping stations to proposed 3 nos. ESRs at Ramakantpur, Malpara, Charaktala and construction of 3 ESRs including laying of distribution network with house service connection	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	Are being followed Types of Generator (acoustic) are being used.	

Package	Main package work	National and State Legal Requirement Applicable to the sub-project	Status	Conditions of the Clearance /NOCs
	within the command area of the 3 ESRs for water supply in Joka and adjoining areas	Establish (CTE)and Consent toOperate (CTO)	Do not require CTE and CTO	
KEIIP/NCB/TR-2/SD19/2016-17	Development of S & D network in Tolly' nullah/ Keorapukur canal sub basin in part of wards 115 and 122 including construction of a SWF pumping station in the premise of Kudghat LS-5 and augmentation of Keorapukur MPS	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 toOperate (CTO)	Are being followed Types of Generator (acoustic) are being used. Do not require CTE and CTO	
KEIIP/NCB/Tr 2/WS- 20/ 2020-22	Construction of Pumping Station to handle Sludge Water of Garden Reach Water Works (GRWW)	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 toOperate (CTO)	Are being followed Types of Generator (acoustic) are being used. Do not require CTE and CTO	
KEIIP/NCB/Tr 2/SD- 22/ 2016-17	Development of S&D Network in Churial Extension Canal sub basin in Borough XIII & XVI (Part of Ward No. 122, 123, 124) including laying of main trunk sewer by micro-tunneling method and	West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006- Tree felling permission Water (Prevention and Control of Pollution) Act. 1974	NOC received from Urban Forest Dept (via certificate no. 48 (FUD/19 dated 22.07.19 for felling of 12 nos. tree.	Plantation of 5 times of number of tree felling i.e 60 nos. of plantation of trees along Churial canal which need proper

Package	Main package work	National and State Legal Requirement Applicable to the sub-project	Status	Conditions of the Clearance /NOCs
	construction of Churial Extension Pumping Station	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)	During implementation of project compliance with Air Act, Noise Rules and Water Act will be required For acoustic type of Generator - not required	maintenance for survival.
KEIIP/NCB/TR-2/WS25/2017-18	Performance Based Contract for Water Loss Management in Anandapur Area and Patuli Area under Jai Hind WTP	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)	Are being followed Types of Generator (acoustic) are being used. Do not require CTE and CTO	
KEIIP/NCB/TR-2/WS-01/2017-18	Performance Based Water Loss Management Works at Cossipore Service Zone, Ward No. 1 to 6	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)	Are being followed Types of Generator (acoustic) are being used. Do not require CTE and CTO	

IV. COMPLIANCE STATUS WITH THE ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN

17. There are six subproject packages (SD 10T, SD11T, WS 17A, WS 18, SD 19 and WS 25) under construction phase (as on 30th June 2024) in Tranche 2. Site Environment plan including site specific EMP was submitted by the contractor before starting of each construction packages. These EMPs are generally revised semi-annually as per progress of construction work.

18. Environment Officer from DSC and PMU regularly monitoring EMP implementation through desk review of contractor's records and site inspections. Package wise findings for the period January to June, 2024 are presented in Tables 5 and 6.

19. There were a few general non-compliance issues observed during site inspection by DSC team. There were scopes for further improvement in site management measures as mentioned below.

- Use of PPEs (particularly working shoes/ gumboots, hand gloves) by contractors at different work locations
- Use of caution tape/ barricade at few locations of running packages
- Displaying of emergency contact no. and project information board, caution board placed only at few locations
- Arrangement for dust suppression and air quality improvement in all running packages.
- Improvement of access facility and housekeeping at few locations of running packages.
- Improvement of labor camp for few running projects
- The concerned contractors were instructed verbally and also in writing. During subsequent field visits and from Environment monitoring reports it was observed that necessary action to minimize such deficiencies has been undertaken by the respective Contractor and site management has considerably improved.

Table 5: Summarized Compliance to EMP Implementation for S&D Packages (Package No. SD 10T, SD11T, SD 19)

	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation SD 10T	Compliance Status/ Explanation SD 11T	Compliance Status/ Explanation SD 19
	Pre-Construction - Design phase							
1	Site clearance	Site preparation work including necessary clearance and permission.	<ul style="list-style-type: none"> • Tree felling requirement – site environment plan. • NOC – paper documents from line agency. • Method - Site observation and document checking. 	Environment Officer of PMU and DSC	All Project locations, before commencement of physical work.	Complied Tree felling not required.	Complied Tree felling not required.	Complied Tree felling not required.

2	Access to Site	<ul style="list-style-type: none"> maintained via existing roads Involvement of local Traffic Department in the planning stages for road closure traffic diversion. 	<ul style="list-style-type: none"> Involvement of traffic dept. Road closure planning Method – Site observation 	Environment Officer of PMU and DSC	Specific project location	Site is accessible.	Site is accessible.	Site is accessible
3	Affected utilities	Shifting of affected utilities like electric and telephone lines, cable lines, pipe lines etc.	<ul style="list-style-type: none"> List of affected utilities if any, contact operators. Bid document to include requirement for a 	Environment Officer of PMU and DSC	Specific project location	Done as per requirement with the help of	Done as per requirement with the help of	Done as per requirement with the help of concerned authority.

			<p>contingency plan for service interruptions.</p> <ul style="list-style-type: none"> Method - Site observation and document checking. 			concerned authority.	concerned authority.	
4	Water supply	Health risk due to damage in water supply line	<ul style="list-style-type: none"> Schedule of closure. Delivery of KMC potable water to affected people. Method - Site observation 	Environment Officer of PMU and 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
5	Traffic Management	Planning for Traffic Management	<p>Ensure traffic management plan is part of contract documents and being implemented.</p> <p>Method - Site observation and document checking.</p>	Environment Officer of PMU and DSC	-	Complied Traffic management plan prepared and approved from traffic/police dept. Copy available as back up with DSC.	Complied Traffic management plan prepared and approved from traffic/police dept. Copy available as back up with DSC.	Complied Traffic management plan prepared and approved from traffic/police dept. Copy available as back up with DSC.

6	<p>Setting of construction camps, hot mix plants, stockpile areas, storage areas, and disposal areas.</p>	<ul style="list-style-type: none"> • Planning for setting up construction camp, hot mix plants, stockpile areas, storage areas, and disposal areas – to be submitted to DSC for prior approval. • Prioritize areas within or nearest to possible vacant space in the sub-project location • No use of residential areas • No disposal of waste in 	<p>List of selected location of construction work camps, hot mix plants, stockpile areas, storage areas, and disposal areas. Method - Site observation and document checking.</p>	<p>Environment Officer of PMU and DSC</p>	<p>Camp and other sites, before start of physical work & Continuous</p>	<p>Setting of hot mix plant no required. Stockpile and storage area demarcated. Overall status - Complied.</p>	<p>Setting of hot mix plant no required. Stockpile and storage area demarcated. Overall status - Complied.</p>	<p>Setting of hot mix plant not required. Stockpile and storage area demarcated. Overall status - partially complied.</p>
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		water						
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7	Establishing Equipment Lay-down and Storage Area ¹	<ul style="list-style-type: none"> Choice of location for equipment lay-down and storage areas must take into account prevailing winds, distances to adjacent land uses, general on-site topography and water 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 present at all storage facilities 	List of selected location and facility. Method - Site observation and document checking.	Environment Officer of PMU and dDSC	Proposed locations considered in the package. Before start of physical work & Continuous	Complied .Proper storage offuels, lubricants done. Equipmen tlay-down area	Complied .Proper storage offuels, lubricants done. Equipmen tlay-down area	Complied .Proper storage offuels, lubricants done. Equipment lay-down area demarcated .
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		<ul style="list-style-type: none">• Proper storage facilities for the storage of oils, paints, grease, fuels, chemicals and an hazardous materials• These storage facilities (including any tanks) must be on an impermeable surface• Staff must be aware of their potential impacts and follow the appropriate safety measures						
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8	Education of site staff on general and Environmental Conduct ²	<ul style="list-style-type: none"> Ensure that all site personnel have a basic level of environmental awareness training 	Documentation – Training and awareness. Method - Materials and records on awareness training program	Environment Officer of PMU and DSC	-	Site Safety training continued for worker and recorded properly.	Site Safety training continued for worker and recorded properly.	Site Safety training continued for worker and recorded properly.
		<ul style="list-style-type: none"> All employees must undergo safety training and wear the necessary protective clothing 						

9	<p>Construction Materials Management – Sourcing³</p>	<ul style="list-style-type: none"> Contractors shall prepare a source statement indicating the sources of all materials (including topsoil, sands, natural gravels, crushed stone, asphalt, clayliners etc), and submit these to the DSC for approval prior to commencement of any work. Use of Govt. approved quarry sites 	<ul style="list-style-type: none"> List of approved quarry sites and sources of materials Bid document to include requirement for verification of suitability of sources and permit for additional quarry sites if necessary. Construction Contractor documentation Method - Site observation and document checking. 	<p>For mitigation - contractor ,for monitoring - Environment Officer of PMU and dDSC.</p>	<p>Quarries and material source areas. Daily visit by construction supervisor of DSC. Weekly visit by Construction Manager. Fortnight visit by Environment Specialist / Environmental Engineer.</p>	<p>Complied Approval obtained from PMU and DS as per requirement.</p>	<p>Complied Approval obtained from PMU and DS as per requirement.</p>	<p>Complied Approval obtained from PMU and dDSC as per requirement</p>
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		for procurement of • materials							
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		<ul style="list-style-type: none"> • Verify suitability of all material sources and obtain approval of Investment from PMU/DSC 						
10	Maintenance of Construction Camp	<ul style="list-style-type: none"> • Establishment of temporary camps with drinking water, sanitary and solid waste management arrangements • Train employees in the storage and handling of materials • Remove all wreckage, rubbish, or temporary structures 	<ul style="list-style-type: none"> • Complaints from sensitive Receptors • Water and sanitation facilities for employees • Housekeeping – regular disposal of solid waste. • Method – site observation 	For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.	Camp site. Same as above.	No	No requirement of labour camp as all local labour engaged in work.	<p>Complied, partially satisfactory.</p> <p>Rented house arranged for labours with all facility. Housekeeping need to be improved at camp site.</p>

11	Landscape and Aesthetics	<ul style="list-style-type: none"> • Removal of overburden and excavated material from working site and use / preservation of the same – as per mitigation measures 	<ul style="list-style-type: none"> • Waste Management List • Complaints from sensitive receptors • PMU/PIU/DSC to report in writing that the necessary environmental restoration work has been done. • Method – checking of 	For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.	Project Locations. Same as above.	Partially complied. Utilization of excess earth is being done as per EMP. Spoil management plan applied as per EMP.	Partially complied. Utilization of excess earth is being done as per EMP. Spoil management plan applied as per EMP.	Partially complied. Utilization of excess earth is being done as per EMP. Spoil management plan applied as per EMP.
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		<ul style="list-style-type: none"> • Fencing of storage areas • Disposal of construction debris if any as per mitigation measures • Prepare and implement Waste Management List • Avoid stockpiling of excess excavated soils • Coordinate with KMC for beneficial uses of excess excavated soils 	<p>records, visual observation</p>					
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12	Dust and Air Pollution ⁴	<ul style="list-style-type: none"> Selecti on of materials storage area Water sprinkling at construction site for arresting dust (if any during dry period) Use tarpaulins to cover sand and other loose material- 	<ul style="list-style-type: none"> Location of stockpiles Complaints from sensitive receptors Monitoring data Heavy equipment and machinery with air pollution control Water sprinkling arrangement Cover materials. Method – checking of 	For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.	Project Locations, same as above.	Partially complied. Stock piles are covered to minimize dust generation. Regular water sprinkling often done at site. Constructi on phase air quality monitoring is done as per the	Partially complied. Utilization of excess earth is being done as per EMP. Spoil managem nt plan applied as per EMP. (Complete result certificates available in DSC office	Partially complied. Utilization of excess earth is being done as per EMP. Spoil management plan applied as per EMP. (Complete result certificates available in DSC office as back up paper). Pollution
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⁴ Main causes of air pollution during construction are dust from vehicle movements and stockpiles, vehicle emissions and fires.

		<p>Reducing dust hazard</p> <ul style="list-style-type: none"> All vehicles and equipment's mobilized to construction site and producing emission, have Pollution Under Control certification No fire wood burning is allowed on site Carry out air quality monitoring 	<p>records, visual observation</p>			<p>EMP. (Complete result certificates available in DSC office as back up paper). Pollution under Control Certificate of vehicles and equipment collected. (Refer Appendix - 6) Air quality monitoring has been done on 11.03.2024</p>	<p>as back up paper). Pollution under Control Certificate of vehicles and equipment collected. (Refer Appendix - 6) Air quality monitoring has been done on 11.03.2024</p>	<p>under Control Certificate of vehicles and equipment collected. (Refer Appendix -6) Air quality monitoring has been done on 28.06.2024</p>
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13	Noise level	<ul style="list-style-type: none"> Noise producing work needs to be conducted at day time Regular maintenance of noise producing equipment Horns not be used unless it is necessary to warn other road users Maintain maximum sound levels not exceeding 	<ul style="list-style-type: none"> Complaints from sensitive receptors Use of silencers in noise-producing equipment and sound barriers Monitoring data. Method – checking of records, visual observation 	For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.	Project Locations, same as above.	<p>Complied No as such noise producing machinery mobilized at site.</p> <p>PPE supplied to workers and being utilized as per requirement. During construction monitoring done.</p> <p>Complete</p>	<p>Complied No as such noise producing machinery mobilized at site.</p> <p>PPE supplied to workers and being utilized as per requirement. During construction monitoring done.</p> <p>Complete</p>	<p>Complied Construction activity is restricted within reasonable working hour and all machineries are in good working condition Use of PPE is ensured among workers. Ambient noise level was monitored at project site during construction</p>
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		<p>80 decibels (dbA) when measured at a distance of 10 m or more from the vehicle/s</p> <ul style="list-style-type: none"> At sensitive locations, enclosures provided around generator set or other noise producing machinery. 				<p>result certificates available in DSC office as back up paper). Noise monitoring has been done on 11.03.2024</p>	<p>result certificates available in DSC office as back up paper). Noise monitoring has been done on 11.03.2024</p>	<p>phase. (Complete result certificates available in DSC office as back up paper). Noise monitoring has been done on 28.06.2024</p>
14	Storm water management	<p>Arrangement of drainage of waste water and arresting of solid waste/silt from waste water generated at construction site</p>	<ul style="list-style-type: none"> Areas for stockpiles, storage of fuels and lubricants and waste materials Number of silt traps installed along drainages (in slope) leading to water bodies. Method – checking of records, visual observation. 	<p>For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.</p>	<p>Project Locations, same as above.</p>	<p>Complied. Arrangement of drainage of waste water from construction site is maintained</p>	<p>Complied. Arrangement of drainage of waste water from construction site is maintained</p>	<p>Complied. Arrangement of waste water from construction site is maintained.</p>

15	Water Quality ⁵	<ul style="list-style-type: none"> • Contractor to ensure run-off from vehicle or plant washing does not enter Hooghly river • Contractor to ensure every effort is made that any 	<p>Non entry of pollutant in water body. Method – site observation.</p>	<p>For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.</p>	Project Locations	<p>At present there is no water source nearby the project location</p> <p>Water quality monitoring</p>	<p>At present there is no water source nearby the project location</p> <p>Water quality monitoring</p>	<p>No water source near the construction location. Water quality monitoring has been done on 28.06.2024</p>
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⁵Water 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.

		chemicals or hazardous substances do not contaminate the soil, Hooghly river, or groundwater on site.				has been done on 11.03.2024	has been done on 11.03.2024	
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16	Conservation of Natural Environment	<ul style="list-style-type: none"> • Contractor to ensure removal of only trees that have been marked beforehand • Contractor to immediately re-vegetate stripped areas • Contractor to prohibit site staff from gathering firewood, fruits, plants, crops or any other natural material on-site or in areas adjacent to the sites. 	Tree felling requirement and afforestation after final design. Method – checking of records, visual observation.	For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.	Project Locations	No tree cutting as per present working condition	No tree cutting as per present working condition	No tree cutting as per present working condition
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17	Materials Management	<ul style="list-style-type: none"> • Contractor to ensure stockpiles do not obstruct natural water pathways. • Contractor to cover stockpiles exposed to windy 	Stockpile management. Method – checking of records, visual observation.	For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.	Stockpile / storage area	Complied Stockpiling of materials done at designated areas.	Complied Stockpiling of materials done at designated areas.	Complied Stockpiling of materials done at designated areas.
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		conditions or heavy rain with vegetation, cloth, or tarps. <ul style="list-style-type: none">• Contractor to ensure all concrete mixing take place on a designated, impermeable surface.						
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18	Occupational Health & safety	<ul style="list-style-type: none"> Develop and implement site-specific Health and Safety (H&S) Plan Use Personal Protective Equipment like helmet, gumboot, gloves, nose mask and earplugs H&S Training for all site personnel Documentation of work-related accidents; Designate a safeguard focal person and undertake safeguards 	<ul style="list-style-type: none"> Site-specific Health and Safety (H&S) Plan Equipped first-aid stations; Medical insurance coverage for workers Number of accidents Supplies of potable drinking water; Record of H&S orientation trainings Personal protective equipment's Sign boards for hazardous areas such as energized electrical devices and lines, service rooms. Method – checking of records, visual observation. 	For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.	Project Locations	<p>Site-specific HSE Plan under implementation. The plan available with DSC.</p> <p>HSE training arranged for the labours on regular basis. Drinking water and first aid box available at site. Use of PPEs partially satisfactory at site. Insurance arranged for the Labours (Refer Appendix - 4). Tie up</p>	<p>Site-specific HSE Plan under implementation</p> <p>The plan available with DSC. HSE training arranged for the labours on regular basis. Drinking water and first aid box available at site. Use of PPEs partially satisfactory at site. Insurance arranged for the Labours (Refer Appendix - 4). Tie up</p>	<p>Site-specific HSE Plan under implementation</p> <p>The plan available with DSC. Construction site particularly shafts area are already barricaded. Trained workers assigned to dangerous equipment. HSE training arranged for the labours on regular basis. Drinking water and first aid box available at site. Use of PPEs and high visibility vests are ensured. Site. Insurance arranged for the Labours</p>
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		<p>orientation by PMU/PIU</p> <ul style="list-style-type: none"> • Provide specific guidance for suitable PPE for every on-site work assignment • Ensure availability of First aid box at all working sites and labour camp • Provide medical insurance coverage for workers; • Provide supplies of potable drinking water at working sites; • Provide H&S orientation training to all new workers • Mark 				<p>with nearby health center/hospital done. Overall compliance is satisfactory . Sample copy of labour license attached as Appendix 5.</p>	<p>with nearby health center/hospital done. Overall compliance is satisfactory . Sample copy of labour license and attached as Appendix 5.</p>	<p>(Refer Appendix - 4).Tie up with nearby healthcenter/hospital done. Overall compliance is satisfactory. Sample copy of labour license as Appendix 5.</p>
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and provide sign boards for hazardous areas such as energized electrical devices and lines

- Do not allow worker exposure to

		noise level greater than 85 dBA for a duration of more than 8 hours per day without hearing protection.						
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19	<p>Social Impacts⁶- Community Health & safety, accessibility</p>	<ul style="list-style-type: none"> Plan truck routes (for carrying construction materials including pipes) to avoid narrow or congested roads and tourist sites Contractor to ensure disruption of access for local residents is minimized Contractor to restrict activities and movement of staff to designated construction areas Contractor to provide walkways and metal sheets where required to maintain access across for people and 	<ul style="list-style-type: none"> Traffic Management Strategy Complaints from sensitive receptors Number of signages placed at subproject location. Method – checking of records, visual observation. 	<p>For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.</p>	<p>Project Locations</p>	<p>Partially Complied. Caution tape placed around excavated and working area as and when required. Sufficient access maintained .</p>	<p>Partially Complied. Caution tape placed around excavated and working area as and when required. Sufficient access maintained .</p>	<p>Partially Caution tape/ barricade placed around excavated area. Improvement is noted. Particularly inclusion of all emergency contact no. in display board is required.</p>
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vehicles

⁶ Regular communication between the Contractor and the interested and affected parties is important for the duration of the contract.

		<ul style="list-style-type: none"> • Consideration of public safety - as per prescribed mitigation measures • Contractors to ensure lighting on the construction site • Provide protective fencing around open trenches • Provide road signs and flag persons to warn • Schedule transport and hauling activities during non-peak hours 						
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20	Socio cultural resources	<ul style="list-style-type: none"> Strictly follow the protocol for chance archaeological finds in any excavation work Stop work immediately to allow further investigation if any finds are suspected 	Chance find protocol. Method - Checking of records	For mitigation - contractor, for monitoring - Environment Officer of PMU and 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
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21	Employment generation	<ul style="list-style-type: none"> The use of labor intensive construction measures will be used where appropriate Employ local (unskilled) labor if possible Training of labor to benefit individuals beyond completion of the subproject 	Employment record. Method - Checking of records	For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.	Project Locations	Local labours are engaged as much as possible.	Local labours are engaged as much as possible.	Local labours are engaged as much as possible.
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Table 6: Summarize Compliance to EMP Implementation for WS Packages (Package No. WS 17A, WS 18, WS 25)

	Environmental Issues	Mitigation Activities and Method	Parameters monitored & Monitoring method adopted	Responsible for Mitigation & Monitoring	Location & Date of Monitoring	Compliance Status/ Explanation WS 17A	Compliance Status/ Explanation WS 18	Compliance Status/ Explanation WS25
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1	Site clearance	Site preparation work including necessary clearance and permission	<ul style="list-style-type: none"> • Tree felling requirement – site environment plan. • NOC – paper documents from line agency. • Method - Site observation and document checking. 	Environment Officer of PMU and DSC	All Project locations, before commencement of physical work.	Complied Tree felling not required.	Complied Tree felling not required.	Complied Tree felling not required.
2	Access to Site	<ul style="list-style-type: none"> • maintained via existing roads • Involvement of local Traffic Department in 	<ul style="list-style-type: none"> • Involvement of traffic dept. • Road closure planning • Method – Site 	Environment Officer of PMU and DSC	Specific project location	Working site is accessible	Working site is accessible.	Working site is accessible.

		the planning stages for road closure traffic diversion.	observation					
3	Affected utilities	Shifting of affected utilities like electric and telephone lines, pipe lines etc.	<ul style="list-style-type: none"> List of affected utilities if any and contact operators. Bid document to include requirement for a contingency plan for service interruptions. Method - Site observation and document checking. 	Environment Officer of PMU and 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.
4	Water supply	Health risk due to closure of water supply	<ul style="list-style-type: none"> Schedule of closure Delivery of KMC of potable water to affected people . Method - Site observation and record checking. 	Environment Officer of PMU and 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

5	Traffic Management	Planning for Traffic Management	Ensure traffic management plan is part of contract documents and being implemented. Method - Site observation and document checking.	Environment Officer of PMU and DSC	-	Complied Traffic management plan prepared and approved by traffic/police dept. Copy available as back up with DSC.	Not required as per present scope of work.	Complied Traffic management plan prepared and approved by traffic/police dept. Copy available as back up with DSC.
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6	Setting of construction camps, hot mix plants, stockpile areas, storage areas, and disposal areas.	<ul style="list-style-type: none"> • Planning for setting up worker camps, hot mix plant, stockpile area, storage and disposal areas • Prioritize areas within or nearest possible vacant space in the subproject location • Non-use of residential area • Arrangement of toilet and drinking water facility • No disposal of waste in water 	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 DSC	Camp and other sites, before start of physical work & Continuous	Setting of hot mix plant not required. Stockpile and storage area demarcated	Setting of hot mix plant not required. Stockpile and storage area demarcated	Setting of hot mix plant not required. Stockpile and storage area demarcated.
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7	Establishing Equipment Lay-down and Storage Area ⁷	<ul style="list-style-type: none"> Choice of location for equipment lay-down and storage areas must take into account prevailing winds, distances to adjacent land uses, general on-site topography and water erosion potential of the soil. Storage areas shall be secure so as to minimize the risk of crime. Away from school and 	List of selected location and facility. Method - Site observation and document checking.	Environment Officer of PMU and DSC	Proposed locations considered in the package. Before start of physical work & Continuous	Complied. Proper storage of fuels, lubricants done. Equipment lay-down area demarcated	Complied. Proper storage of fuels, lubricants done. Equipment lay-down area demarcated	Complied. Proper storage of fuels, lubricants done. Equipment lay-down area demarcated.
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		<p>direct residential areas</p> <ul style="list-style-type: none"> • Fire prevention facilities must be present at all storage facilities • Proper storage facilities for the storage of oils, paints, grease, fuels, chemicals and any hazardous materials • These storage facilities (including any tanks) must be on an impermeable surface • Staff must be aware of their potential impacts and follow the appropriate safety measures 						
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8	Education of site staff on general and Environmental Conduct ⁸	<ul style="list-style-type: none"> Ensure that all site personnel have a basic level of environmental awareness training All employees must undergo safety training and wear the necessary protective clothing 	Documentation – Training and awareness. Method - Materials and records on awareness training program	Environment Officer of PMU and DSC	-	Site Safety training continued for worker and recorded properly.	Site Safety training continued for worker and recorded properly.	Site Safety training continued for worker and recorded properly.
9	Materials Management	<ul style="list-style-type: none"> Contractors shall prepare a 	<ul style="list-style-type: none"> List of approved 	For mitigation -	Quarries and	Complied Approval	Complied Approval	Complied Approval obtained

	<p>t – Sourcing⁹</p>	<p>source statement indicating the sources of all materials (including topsoil, sands, natural gravels, crushed stone, asphalt, clay liners etc), and submit these to the DSC for approval prior to commencement of any work.</p> <ul style="list-style-type: none"> • Use of Govt. approved quarry sites for procurement of materials • Verify suitability of all material sources and obtain approval of Investment from PMU/DSC 	<p>quarry sites and sources of materials</p> <ul style="list-style-type: none"> • Bid document to include requirement for verification of suitability of sources and permit for additional quarry sites if necessary. • Construction Contractor documentation • Method - Site observation and document checking. 	<p>contractor, for monitoring - Environment Officer of PMU and DSC.</p>	<p>material source areas. Daily visit by construction supervisor of DSC. Weekly visit by Construction Manager. Fortnight visit by Environment Specialist / Environmental Engineer.</p>	<p>obtained from PMU and DSC as per requirement</p>	<p>obtained from PMU and DSC as per requirement</p>	<p>from PMU and DSC as per requirement</p>
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10	Maintenance of Construction Camp	<ul style="list-style-type: none"> Establishment of temporary camps with drinking water, sanitary and solid waste management arrangement Train employees in the storage and handling of materials Remove all wreckage, rubbish, or temporary structures 	<ul style="list-style-type: none"> Complaints from sensitive Receptors Water and sanitation facilities for employees Housekeeping – regular disposal of solid waste. Method – site observation 	For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.	Camp site. Same as above.	Complied, patially satisfactory. Rented house arranged for labours with all facility. Housekeeping need to be improved at camp site.	Labour camp is present. Drinking water and toilet facility available at camp. Overall status – Complied.	At present there is no labour camp
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11	Landscape and Aesthetics	<ul style="list-style-type: none"> • Removal of overburden and excavated material from working site and use / preservation of the same – as per mitigation measures • Fencing of storage areas • Disposal of construction debris if any as per mitigation measures • Prepare and implement Waste Management List • Avoid stockpiling of excess excavated soils • Coordinate with KMC for beneficial uses of excess 	<ul style="list-style-type: none"> • Waste Management List • Complaints from sensitive receptors • PMU/PIU/DSC to report in writing that the necessary environmental restoration work has been done. • Method – checking of records, visual observation 	For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.	Project Locations. Same as above.	Complied mostly. Utilization of excess earth done as per EMP. Spoil management plan applied as per EMP. Copy available as back up with DSC.	Complied mostly. Utilization of excess earth done as per EMP. Spoil management plan applied as per EMP. Copy available as back up with DSC.	Complied mostly. Utilization of excess earth done as per EMP. Spoil management plan applied as per EMP. Copy available as back up with DSC.
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		excavated soils								
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12	Dust and Air Pollution ¹⁰	<ul style="list-style-type: none"> • Selection of materials storage area • Water sprinkling at construction site for arresting dust (if any during dry period) • Use tarpaulins to cover sand and other loose material- 	<ul style="list-style-type: none"> • Location of stockpiles • Complaints from sensitive receptors • Monitoring data • Heavy equipment and machinery with air pollution control 	For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.	Project Locations, same as above.	Partially Complied. Location of stockpiles selected. Covering of materials done partially. Sprinkling of water done as per requirement During construction	Partially Complied. Location of stockpiles selected. Covering of materials done partially. Sprinkling of water done as per requirement During construction	Partially Complied. Location of stockpiles selected. Covering of materials done partially. Sprinkling of water done as per requirement During construction air quality monitoring done as per EMP. (Complete result certificates
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		<p>Reducing dust hazard</p> <ul style="list-style-type: none"> • All vehicles and equipments mobilized to construction site and producing emission, have Pollution Under Control certification • No fire wood burning is allowed on site • Carry out air quality monitoring 	<ul style="list-style-type: none"> • Water sprinkling arrangement • Cover materials. • Method – checking of records, visual observation 			<p>air quality monitoring done as per EMP. (Complete result certificates available in DSC office as back up paper). Pollution under Control Certificate of vehicles and equipment's procured Refer appendix – 3 Air quality monitoring has been done on 04.06.2024-05.06.2024</p>	<p>air quality monitoring done as per EMP. (Complete result certificates available in DSC office as back up paper). Pollution under Control Certificate of vehicles and equipment's procured Refer appendix – 3 Air quality monitoring has been done on 03.01.2024</p>	<p>available in DSC office as back up paper). Pollution under Control Certificate of vehicles and equipment's procured No monitoring was conducted during the reporting period</p>
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13	Noise level	<ul style="list-style-type: none"> Noise producing work needs to be conducted at day time Regular maintenance of noise producing equipment Horns not be used unless it is necessary to warn other road users Maintain maximum sound levels not exceeding 80 decibels (dbA) when measured at a distance of 10 m 	<ul style="list-style-type: none"> Complaints from sensitive receptors Use of silencers in noise-producing equipment and sound barriers Monitoring data. Method – checking of records, visual observation 	For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.	Project Locations, same as above.	Complied No as such noise producing machinery mobilized at site. PPE supplied to workers and utilized as per requirement . During construction monitoring done. (Complete result certificates available in DSC office	Complied No as such noise producing machinery mobilized at site. PPE supplied to workers and utilized as per requirement . During construction monitoring done. (Complete result certificates available in DSC office	Complied No as such noise producing machinery mobilized at site. PPE supplied to workers and utilized as per requirement. During construction monitoring done. (Complete result certificates available in DSC office as back up paper). No monitoring was conducted during the reporting period
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		<p>or more from the vehicle/s</p> <ul style="list-style-type: none"> At sensitive locations, enclosures provided around generator set or other noise producing machinery. 				<p>as back up paper). Noise quality monitoring has been done on 04.06.2024-05.06.2024</p>	<p>as back up paper). Noise quality monitoring has been Done on 03.01.2024</p>	
14	Storm water management	<p>Arrangement of drainage of waste water and arresting of solid waste/silt from waste water generated at construction site</p>	<ul style="list-style-type: none"> Areas for stockpiles, storage of fuels and lubricants and waste materials Number of silt traps installed along drainages (in slope) leading to water bodies. Method – checking of records, visual observation. 	<p>For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.</p>	<p>Project Locations, same as above.</p>	<p>Complied. Arrangement of drainage of waste water from construction site is maintained.</p>	<p>Complied. Arrangement of drainage of waste water from construction site is maintained.</p>	<p>Complied. Arrangement of drainage of waste water from construction site is maintained.</p>

15	Water Quality ¹¹	<ul style="list-style-type: none"> Contractor to ensure run-off from vehicle or plant washing does not enter Hooghly river Contractor to ensure every effort is made that any chemicals or hazardous substances do not contaminate the soil, Hooghly river, 	Non entry of pollutant in water body. Method – site observation.	For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.	Project Locations	No water source near the construction location. Drinking Water quality monitoring has been done on 04.06.2024-05.06.2024	Surface Water quality monitoring has been done on 03.01.2024	No water source near the construction location.
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¹¹ 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.

		or groundwater on site.						
16	Conservation of Natural Environment	<ul style="list-style-type: none"> • Contractor to ensure removal of only trees that have been marked beforehand • Contractor to immediately re-vegetate stripped areas • Contractor to prohibit site staff from gathering firewood, fruits, plants, crops or any other natural material on-site or in areas adjacent to the sites. 	Tree felling requirement and afforestation after final design. Method – checking of records, visual observation.	For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.	Project Locations	No tree cutting as per present working condition	No tree cutting as per present working condition	No tree cutting as per present working condition

17	Materials Management	<ul style="list-style-type: none"> Contractor to ensure stockpiles do not obstruct natural water pathways. Contractor to cover stockpiles exposed to windy conditions or heavy rain with vegetation, cloth, or tarps. Contractor to ensure all concrete mixing take place on a designated, impermeable surface. 	Stockpile management. Method – checking of records, visual observation.	For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC	Stockpile / storage area	Complied Stockpiling of materials done at designated areas.	Complied Stockpiling of materials done at designated areas.	Complied Stockpiling of materials done at designated areas.
18	Occupational Health & safety	<ul style="list-style-type: none"> Develop and implement site-specific Health and Safety (H&S) Plan Use Personal Protective Equipment like helmet, gumboot, 	<ul style="list-style-type: none"> Site-specific Health and Safety (H&S) Plan Equipped first-aid stations; Medical insurance 	For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC	Project Locations	Site-specific HSE Plan under implementation The plan available with DSC. HSE training arranged for the labours	Site-specific HSE Plan under implementation The plan available with DSC. HSE training arranged for the labours	Site-specific HSE Plan under implementation The plan available with DSC. HSE training arranged for the labours on regular basis. Drinking water and first aid

	<p>gloves, nose mask and earplugs</p> <ul style="list-style-type: none"> • H&S Training for all site personnel • Documentation of work-related accidents; • Designate a safeguard focal person and undertake safeguards orientation by PMU/PIU • Provide specific guidance for suitable PPE for every on-site work assignment • Ensure availability of First aid box at all working sites and labour camp • Provide medical insurance coverage for workers; • Provide supplies of potable drinking water at working sites; • Provide H&S orientation training 	<p>coverage for workers</p> <ul style="list-style-type: none"> • Number of accidents • Supplies of potable drinking water; • Record of H&S orientation trainings • Personal protective equipments • Sign boards for hazardous areas such as energized electrical devices and lines, service rooms. • Method – checking of records, visual observation. 			<p>on regular basis. Drinking water and first aid box available at site. Use of PPEs satisfactory at site. Insurance arranged for the Labours. Tie up with nearby health center/hospital done. Overall compliance is satisfactory. (Refer appendix – 4 and 5 respectively for WC policy and labour license)</p>	<p>on regular basis. Drinking water and first aid box available at site. Use of PPEs partially satisfactory at site. Insurance arranged for the Labours.. Tie up with nearby health center/hospital done. Overall compliance is satisfactory. (Refer appendix – 4 and 5 respectively for WC policy and labour license)</p>	<p>box available at site. Use of PPEs partially satisfactory at site. Insurance arranged for the Labours. Tie up with nearby health center/hospital done. Overall compliance is satisfactory. (Refer appendix – 4 and 5 respectively for WC policy and labour license)</p>
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		<p>to all new workers</p> <ul style="list-style-type: none">• Mark and provide sign boards for hazardous areas such as energized electrical devices and lines• Disallow worker exposure to noise level greater than 85 dBA for a						
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		duration of more than 8 hours per day without hearing protection.						
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19	<p>Social Impacts¹²- Community Health & safety, accessibility</p>	<ul style="list-style-type: none"> Plan truck routes (for carrying construction materials including pipes) to avoid narrow or congested roads and tourist sites Contractor to ensure disruption of access for local residents is minimized Contractor to restrict activities and movement of staff to designated construction areas Contractor to provide walkways and metal sheets where required to maintain access across for people and vehicles Consideration of public safety -as per prescribed mitigation measures Contractors to ensure lighting on the construction site Provide protective fencing 	<ul style="list-style-type: none"> Traffic Management Strategy Complaints from sensitive receptors Number of signages placed at subproject location. Method – checking of records, visual observation. 	<p>For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.</p>	<p>Project Locations</p>	<p>Caution tape/ barricade placed around excavated area mostly. Access maintained mostly.</p>	<p>Caution tape/ barricade placed around excavated area mostly. Access maintained mostly.</p>	<p>Caution tape/ barricade placed around excavated area mostly. Access maintained mostly.</p>
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around open
trenches
• Provide road
signs and flag
persons to warn

¹² Regular communication between the Contractor and the interested and affected parties is important for the duration of the contract.

		<ul style="list-style-type: none"> Schedule transport and hauling activities during non-peak hours 						
20	Socio cultural resources	<ul style="list-style-type: none"> Strictly follow the protocol for chance archaeological finds in any excavation work Stop work immediately to allow further investigation if any finds are suspected 	Chance finds protocol. Method - Checking of records	For mitigation - contractor, for monitoring - Environment Officer of PMU and 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
21	Employment generation	<ul style="list-style-type: none"> The use of labor intensive construction measures will be used where appropriate Employ local (unskilled) labor if possible Training of labor to benefit individuals beyond completion of the subproject 	Employment record. Method - Checking of records	For mitigation - contractor, for monitoring - Environment Officer of PMU and DSC.	Project Locations	At present local labours are mostly engaged.	Local labours are engaged as much as possible.	Local labours are engaged as much as possible.

V. ENVIRONMENTAL MONITORING AND EVALUATION

20. In addition to desk reviews and site inspections, monitoring of selected environmental parameters have been conducted during the reporting period for ongoing packages to understand impact of construction work on the basic parameters of surrounding environment. No monitoring work conducted in WS 25 package during the reporting period.

21. The frequencies of the environmental monitoring activities are commensurate to the type and significance of the impacts. For Tranche 2 subprojects, the parameters to be monitored are ambient air quality, noise levels and drinking water quality.

22. Air quality monitoring results are shown in **Table 7** and comparison with standards has been presented in **Figure 4 to Figure 6**. All test certificates are available in DSC office as back up paper.

Table 7: Ambient Air Quality Status at Working Sites

Construction Package No.	Monitoring location	Monitoring stage	Date of monitoring	Parameters, µg/m ³			
				PM ₁₀	PM _{2.5}	SO ₂	NO ₂
KEIIP/NCB/ Tr-2/SD-10T / 2015-16	Rania Main road	Construction stage	11.03.2024	68	42	8.2	37.2
KEIIP/NCB/ Tr-2/SD-11T / 2015-16	Pump House	Construction stage	11.03.2024	71	47	8.7	39.1
KEIIP/Tr 2/WS 17A/2016-17	Prantik Phase-II, M.G.Road	Construction Stage	04.06.2024 - 05.06.2024	118	65	9.3	35 .1
(KEIIP/NCB/Tr 2/WS 18/ 2016-17)	Charaktala ESR	Construction Stage	03.01.2024	137	75	8.9	36.3
	Ramkantapur ESR	Construction Stage	03.01.2024	115	63	8.1	34.5
	PWD Stockyard	Construction Stage	03.01.2024	159	83	10.2	37.1
KEIIP/NCB/Tr2/S D-19/ 2016-17	Banamali Banerjee Road, Haridevpur	Construction Stage	28.06.2024	76	50	5.2	27.8
KEIIP/NCB/Tr 2/WS 25/ 2016-17	No monitoring was conducted during the reporting period						
National Ambient Air Quality Standard (NAAQS)				100	60	80	80

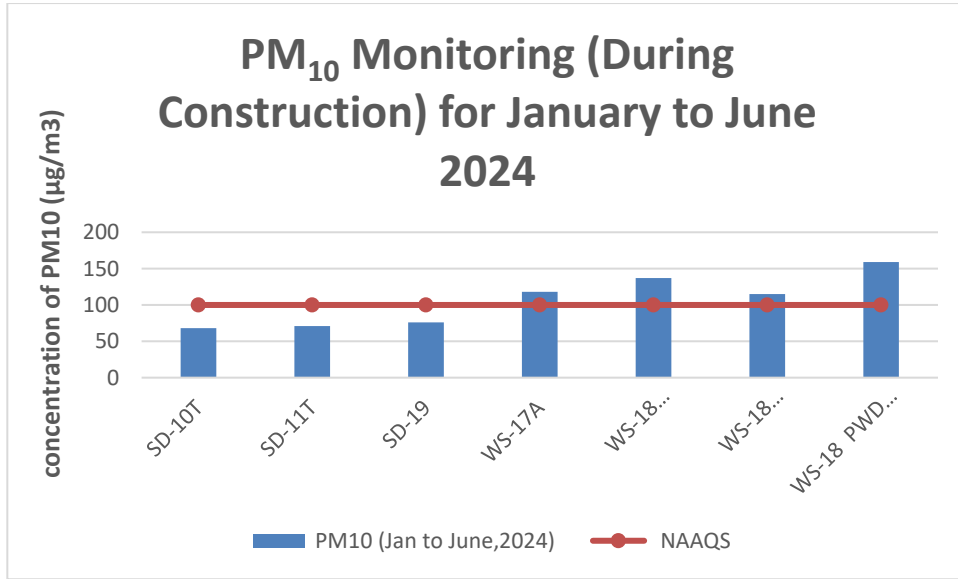


Figure 4: Status of PM₁₀ in S&D and WS packages of Tranche – 2

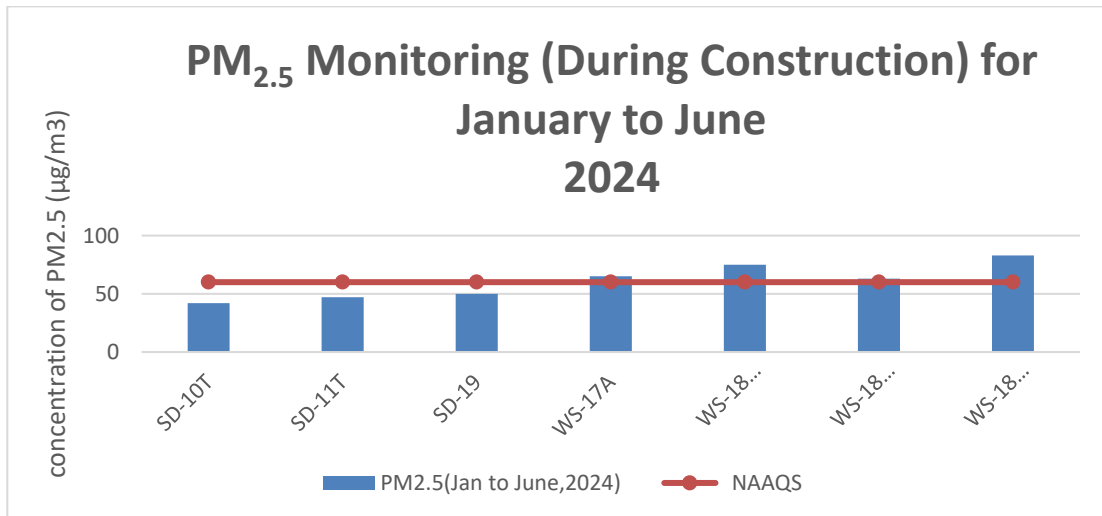


Figure 5: Status of PM_{2.5} in S&D and WS packages of Tranche-2

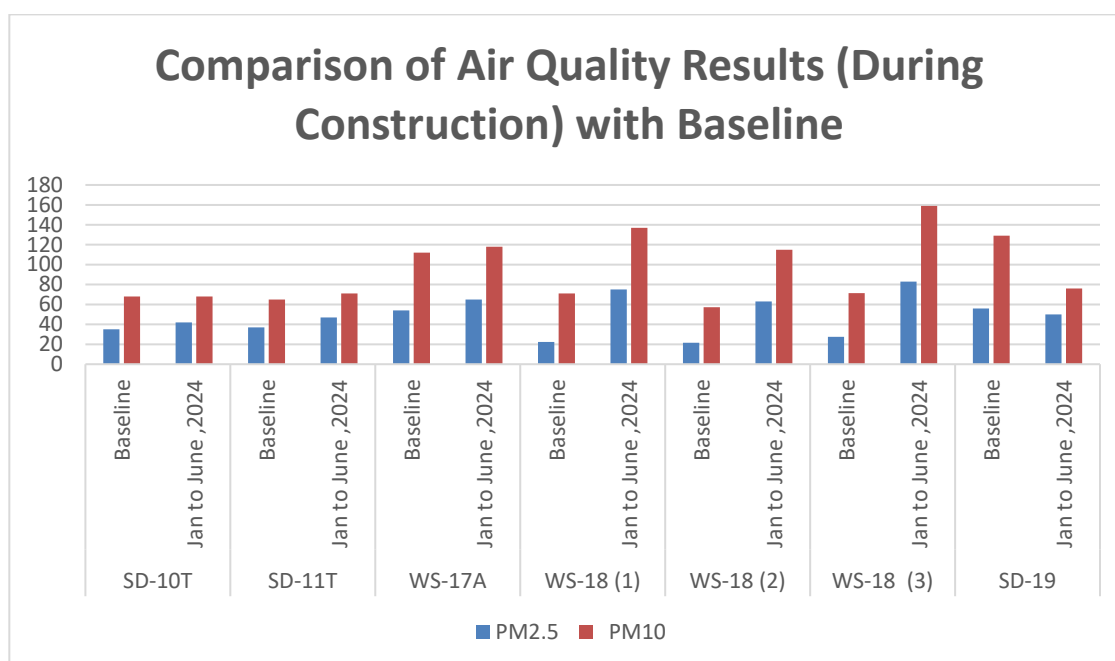


Figure 6: Comparison of During Construction Monitoring Results with Baseline

Salient findings from air quality monitoring are as follows,

23. By analysing the above results it is noted that PM₁₀ and PM_{2.5} have exceeded the permissible limit at the project sites of WS-17A and WS-18. The higher concentration observed mainly due to vehicular movements in busy city roads. Increased dust particles arising from construction activities also noted at those locations.

24. By comparing the results with Baseline values, it was observed that, the concentration of both the parameters were slightly higher than their baseline values at few packages. This is mainly resulting from dust particles arising from construction activities.

25. Contractors have been advised to take necessary action on dust suppression (during dry periods) by regular water sprinkling for lowering dust particles during the construction.

Table 8: Noise Level Monitoring Data at Working Sites

Package No.	Sampling Locations- Area	Implementation Stage	Date of Monitoring	Day Time Leq dB(A)	Night Time Leq dB(A)
(KEIIP /NCB/ Tr-2/SD-10T/2016-17)	Rania Main Road	Construction stage in March 2024	11.03.2024	62.9	49.8

Package No.	Sampling Locations-Area	Implementation Stage	Date of Monitoring	Day Time Leq dB(A)	Night Time Leq dB(A)
(KEIIP /NCB/ Tr-2/SD-11T/2016-17)	Pump House	Construction stage in March 2024	11.03.2024	63.7	51.7
(KEIIP/Tr 2/WS-17A/2016-17)	Prantik Phase 11, M.G.Road	Construction stage in June 2024	04.06.2024-05.06.2024	59.3	46.5
(KEIIP/NCB/Tr 2/WS 18/ 2016-17)	Malpara ESR	Construction Stage in January 2024	03.01.2024	58.7	47.2
	Charaktala ESR	Construction Stage in January 2024	03.01.2024	56.3	44.4
	Ramkantapur ESR	Construction Stage in January 2024	03.01.2024	59.3	48.5
	PWD Stockyard	Construction Stage in January 2024	03.01.2024	58.4	48.9
(KEIIP/NCB/Tr-2/SD-19/2016-17)	Banamali Banerjee Road,Haridevpur	Construction stage in June 2024	28.06.2024	60.8	47.1

Package No.	Sampling Locations-Area	Implementation Stage	Date of Monitoring	Day Time Leq dB(A)	Night Time Leq dB(A)
(KEIIP/NCB/TR-2/WS25/2017-18)	No monitoring was conducted during the reporting period				
		Standard	R- Residential, C- Commercial, I- Industrial Standard Day time: Industrial area:75 dB (A) Commercial: 65 dB (A) Residential area: 55 dB (A) Night time: Industrial area:70 dB (A) Commercial: 55 dB (A) Residential area: 45 dB (A)		

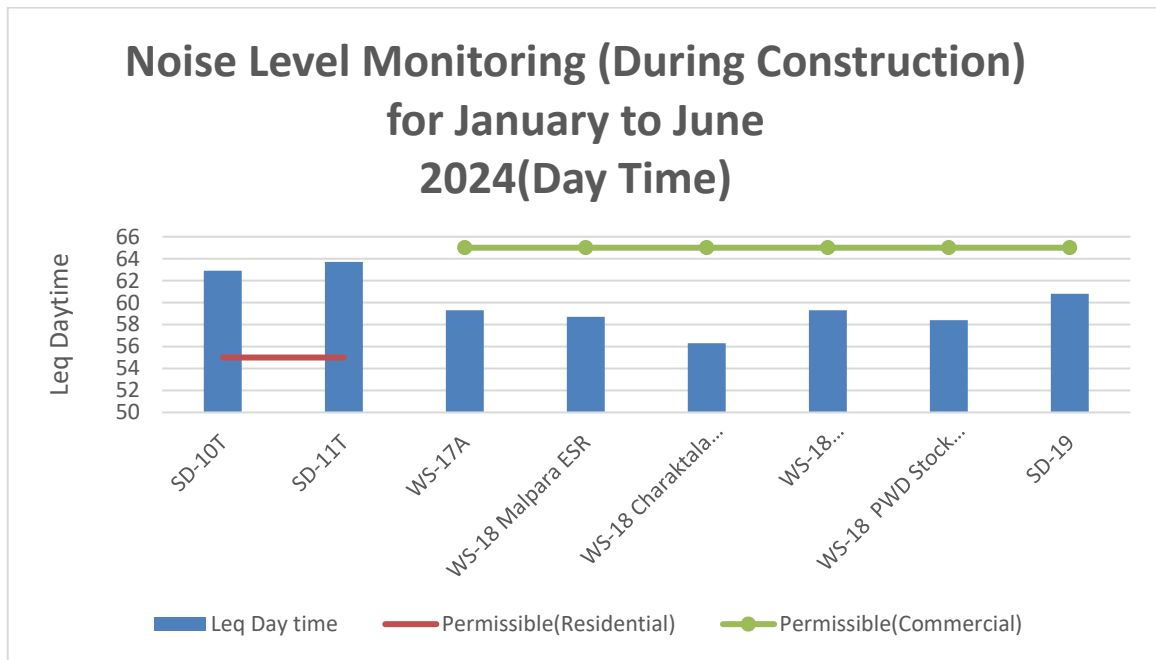


Figure 7: During Construction Noise Level Monitoring at Tranche - 2 Projectpackages (Day Time)

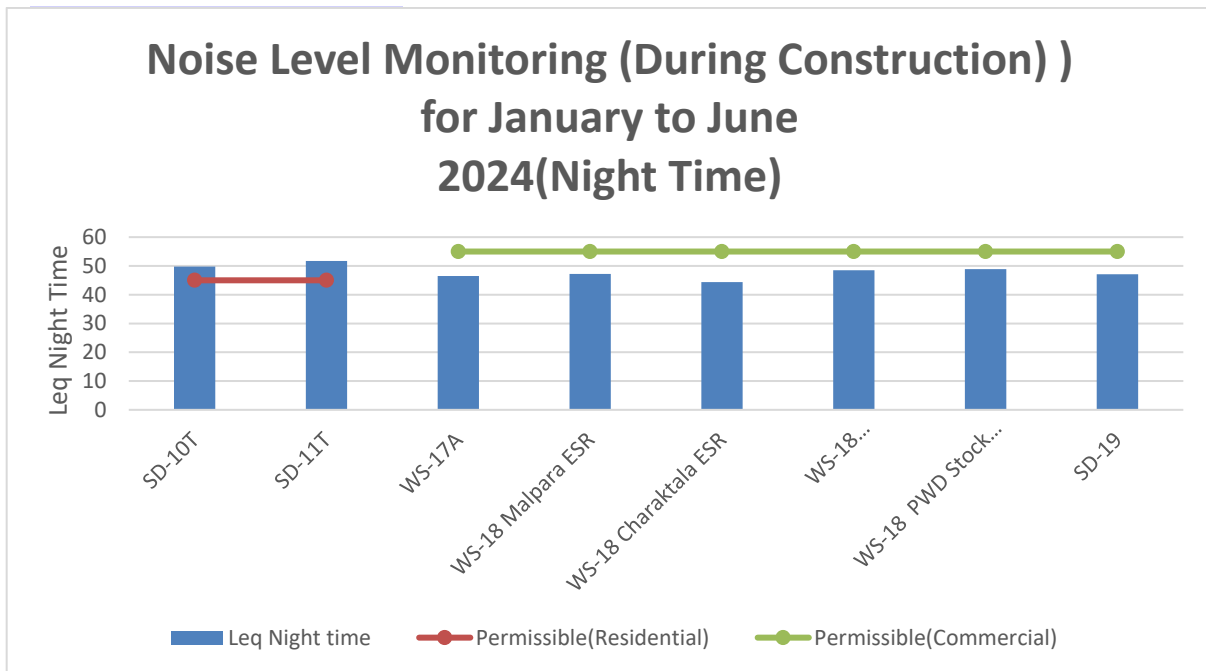


Figure 8: During Construction Noise Level Monitoring at Tranche - 2 packages (Night Time)

26. By analysing the above result, it is found that the day time Leq value are exceeding maximum prescribed limit of residential areas at SD 10T and SD11T. rest of the packages, the noise level value is compared with commercial areas as the sites are located beside the road side and within the market areas. However, being located beside the busy city road the noise level is not only due to construction activities, but contributing due to background city noise. (Refer **Figure 7 & Figure 8**)

27. By analysing the night time values it is observed that except SD 10T and SD 11T, the Leq values are well within the permissible limit at all the project sites.

28. Surface water and drinking water monitoring have been conducted in all S&D packages. The results are given below.

Table 9 : Water Quality Monitoring Results January to June, 2024

Package No.	Sampling Locations-Area	Stage	Date of Monitoring	Water quality parameters								
				pH	DO (min) (mg/L)	Bio chemical oxygen demand (BOD) in mg/l	Chemical oxygen demand (COD)in mg/l	Nitrates (as NO3)in mg/l	Fluoride as F (mg/L)	Chloride (as Cl) in mg/l	Sulphate (as SO4)in mg/l	Arsenic (As) in mg/l
WS-18	Pond near STP Project site	Construction stage	03.01.2024	8.46	5.6	16	60	4.6	0.98	101.7	-	-
Surface water quality criteria as per IS:2296 (Class B- outdoor bathing)				6.5-8.5	5(min)	3 (max)	---	---	1.5 (max)	---	---	0.2 (max)

Table 10: Drinking water quality Monitoring Data at Working Sites

Sl. No.	Parameters	Unit	Contract Package: Trance -2				National Standards for Drinking Water-BIS 10500- 2012	Acceptable limit (Maximum)
			Results (During Construction) Construction Stage In January to June,2024					
			(KEIIP /NCB/Tr -2/SD- 10T/201 6- 17))locati on: Rania Main Road	(KEIIP /NCB/Tr -2/SD- 11T/201 6- 17)locati on :Pump House	(KEIIP P/Tr 2/WS 17A/201 6- 17)locati on :Prantik Phase II, M.G.Ro ad	(KEIIP/NCB / Tr 2/SD- 19/2016-17 locatio n: Bana mali Banerj ee Road		
1	pH	-	7.42	7. 4 1	7. 49	7.6 3	6.5-8.5	
2	Colour	Hazan Unit	-	-	-	-	5 (1 5)	
3	Taste and Odor	-	-	-	-	-	Agreeable	
4	Turbidity	NTU	<1	< 1. 1	< 1. 960	<1. 0	1 (5)	
5	TDS	Mg/l	286	2 8 9	30 4	272	500 (2000)	
6	Total Hardness	Mg/l	107	1 0 9	17 0. 7	194 .0	200 (600)	
7	Chloride	Mg/l	26. 9	2 7. 2 0	40 .2	47. 9	250 (1000)	
8	Alkalinity	Mg/l	102	1 0 1	19 4. 0	202 .4	200 (600)	
9	Sulphate	Mg/l	16. 10	1 5. 7	-	24. 8	200 (400)	

KEIIP: ADB Loan – 3413-IND				0			
10	Nitrate	Mg/l	<0. 6	< 0. 5	-	<0. 5	4 5
11	Fluoride	Mg/l	-	-	-	-	1 (1.5)
12	Calcium	Mg/l	31. 08	3 1. 9	35 .7	42. 8	75(200)
13	Iron	Mg/l	0.09	0. 0 8	0. 1 9	0.35	0 . 3
14	Residual Free Cl	Mg/l	-	-	-	-	0.2(1.0)
15	Ammonia	Mg/l	-	-	-	-	0 . 5
16	Chromium	Mg/l	-	-	-	-	0 . 0 5
17	Copper	Mg/l	-	-	-	-	0.05 (1.5)
18	Arsenic	Mg/l	-	-	-	-	0.01 (0.05)
19	Zinc	Mg/l	-	-	-	-	5 (1 5)
20	Mercury	Mg/l	-	-	-	-	0 . 0 0 1
21	Manganese	Mg/l	-	-	-	-	0.1 (0.3)
22	Cadmium	Mg/l	-	-	-	-	0.03(0.2)
23	Aluminium	Mg/l	-	-	97	-	0.03 (0.2)
24	Cyanide	Mg/l	-	-	-	-	0.05 (No relaxation)
25	E-Coli	MPN/100 ml	ND	N D	N D	ND	Must not be detectable in 100 ml sample
26	Total Coliform	MPN/ 100 ml	ND	N D	N D	ND	Must not be detectable in 100 ml sample

KEIIP: ADB Loan – 3413-IND							m pl e	Semi Ann

29. “During construction” air quality, noise level and water quality monitoring will be continued for all the ongoing packages as per Environment Monitoring Plan of EMP. All monitoring expenses will be borne by contractors from their project health safety monitoring budget. A performance monitoring fact sheet has been prepared to facilitate tracking and quick reference on environmental monitoring of Tranche 2 subproject packages.

Table 11: Performance Fact Sheet for Required Environmental Consents / Clearances of KEIIP Tranche 2 (Package-wise)

Sl. No.	Package No.	Name of Contractor	EMP Part of contract Document(Yes/ No)	Environmental Consents / Clearances Required			
				Tree Cutting	i. Crusher ii. Batching Plant iii. Hot mix plant	Diesel Generator Set	Pollution Under Control Certificates (PUC) for Contractor's Vehicles
1	KEIIP/NCB/Tr 2/SD-10T/2018-19	Simplex infrastructures Ltd.	Yes	Not required as per present scope of work	NR as per present work	NR as per present work	Obtained
2	KEIIP/NCB/Tr 2/SD-11T/2018-19	Simplex infrastructures Ltd.	Yes	Not required as per present scope of work	NR as per present work	NR as per present work	Obtained
3	KEIIP/NCB/Tr-2/SD-13/2015-16	Simplex infrastructures Ltd.	Yes	Not required as per present scope of work	No further work conducted during the reporting period		

Sl. No.	Package No.	Name of Contractor	EMP Part of contract Document(Yes/ No)	Environmental Consents / Clearances Required			
				Tree Cutting	i. Crusher ii. Batching Plant iii. Hot mix plant	Diesel Generator Set	Pollution Under Control Certificates (PUC) for Contractor's Vehicles
4	KEIIP/NCB/Tr 2 /WS 15/2015-16	M/s Gannon Dunkerley & Co.Ltd.	Yes	Not required as per present scope of work	Not required as physical work completed during the reporting period		
5	KEIIP/NCB/Tr 2/WS16/2015-16	FFIL-RIL JV	Yes	Not required as per present scope of work	Not required as physical work completed during the reporting period		
6	KEIIP/Tr-2/WS 17A/2016-17	Simplex infrastructures Ltd.	Yes	Not required as per present scope of work	NR as per present work	Green Diesel generator is used. No permission is required. Emission monitoring done	Obtained

Sl. No.	Package No.	Name of Contractor	EMP Part of contract Document(Yes/ No)	Environmental Consents / Clearances Required			
				Tree Cutting	i. Crusher ii. Batching Plant iii. Hot mix plant	Diesel Generator Set	Pollution Under Control Certificates (PUC) for Contractor's Vehicles
7	KEIIP/Tr-2/WS 17B/2016-17	Simplex infrastructures Ltd.	Yes	Not required as per present scope of work	Not required as physical work completed during the reporting period		
8	KEIIP/NCB/Tr 2/WS18/2016-17	FFIL-RIL JV	Yes	Not required as per present scope of work	NR as per present work	Green Diesel generator is used. No permission is required. Emission monitoring done	Obtained

Sl. No.	Package No.	Name of Contractor	EMP Part of contract Document(Yes/ No)	Environmental Consents / Clearances Required			
				Tree Cutting	i. Crusher ii. Batching Plant iii. Hot mix plant	Diesel Generator Set	Pollution Under Control Certificates (PUC) for Contractor's Vehicles
9	KEIIP/NCB/Tr 2/SD-19/2016-17	Simplex infrastructures Ltd.	Yes	NR as per present scope of work	NR as per present work	Acoustic type of generator is used	Obtained
10	KEIIP/NCB/Tr 2/WS- 20/2020-22	GBC Infrastructure Limited	Yes	Not required as per present scope of work	Not required as physical work completed during the reporting period		
11	KEIIP/NCB/Tr 2/SD-22/2016-17	ITD-ITD CEM JV	Yes	NOC received from Urban Forest Dept (via certificate no. 40/FUD /19 dated 22.07.9 for felling of 12 nos. tree	Not required as physical work completed during the reporting period		
12	KEIIP/NCB/TR-2/WS25/2017-18	SUEZ India Pvt. Ltd.	Yes	Not required as per present scope of work	NR as per present work	Green silent DG used	Obtained

Sl. No.	Package No.	Name of Contractor	EMP Part of contract Document(Yes/ No)	Environmental Consents / Clearances Required			
				Tree Cutting	i. Crusher ii. Batching Plant iii. Hot mix plant	Diesel Generator Set	Pollution Under Control Certificates (PUC) for Contractor's Vehicles
13	KEIIP/NCB/TR-2/WS-01/2017-18	SUEZ India Pvt. Ltd.	Yes	Not required as per present scope of work	Not required as physical work mostly completed during the reporting period		

VI CONSULTATIONS AND DISCLOSURES CONDUCTED

30. As per approved IEE, consultations and disclosure will be a continuous process throughout Tranche 2 project implementation involving public consultations and focus group discussions. Informal consultations were carried out with local people, pedestrian, etc.

31. Types of consultations and disclosure conducted in different packages of Tranche -2 during January to June, 2024 are presented in **Table 12**.

Table 12: Types of consultations and disclosure conducted in different packages of Tranche-2

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

32. Orientation training has been conducted for all ongoing packages on contractual obligations of the contractor.

33. Photographic evidences of training and awareness programme at different project sites of Tranche-2 and consultations at sites have been provided in **Appendix -9** and **Appendix-10** respectively.

33. **Table 13** summarises different types of consultations, issues raised and resolved in different packages of Tranche -2 during January to June, 2024.

Table 13: Summary of issues raised during public consultation in different packages of Tranche -2 during January to June, 2024

SI No.	Packages No.	Place & Date of Consultation	Topic for discussion
Public Consultation arranged by contractors			
1	SD-10T	Ward no. 112 24.05.2024 Bramhapur	Benefit and impact of the project, discussion on few problems raised by local people during implementation GRM information register suggestion and complain if any.
2	SD-11T	Ward no. 113,114 03.04.2024	Benefit and impact of the project, discussion on few problems raised by local people during implementation GRM information register suggestion and complain if any.
3	WS-17A	Joka 01.05.2024- 31.05.2024	Benefit and impact of the project, discussion on few problems raise by local people during implementation GRM information register suggestionand complain if any.

4	WS-18	Naturanpally 18.02.2024	Benefit and impact of the project, discussion on few problems raise by local people during implementation GRM information register suggestion and complain if any.
5	SD-19	Ward 122 01.06.2024- 31.06.2024	Benefit and impact of the project, discussion on few problems raise by local people during implementation GRM information register suggestion and complain if any.
6	WS-25	Ward no. 107,110 Kayastha para, Garima Griha 26.01.2024 09.02.2024 09.03.2024 22.03.2024 07.04.2024 08.05.2024 29.06.2024	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

34. **Common Grievance Redress Mechanism.** A common grievance redress mechanism (GRM) has been established for social, environmental or any other subproject related grievances.

35. 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.

36. 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.

37. 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.

38. 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.

39. 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.

40. 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.

41. **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).¹³ Still

¹³ 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,

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

42. 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

43. **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.

44. **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.

45. **Information Dissemination Methods of the GRM.** Grievances received and responses provided will be documented and reported back to the affected persons (**Appendix 13** -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.

46. **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.

47. **Costs.** All costs involved in resolving the complaints (meetings, consultations, communication and reporting / information dissemination) will be borne by PMU.

48. A GRM flow chart has been provided in **Figure 9** of this report.

49. Grievances received and responses provided in different packages of Tranche -2 during January to June, 2024 is presented in Table 14 which indicate that there were no major grievances at project sites and issues recorded has been resolved.

representatives of APs, Community-Based Organizations (CBOs), and eminent citizens. The GRC must have at least two women members.

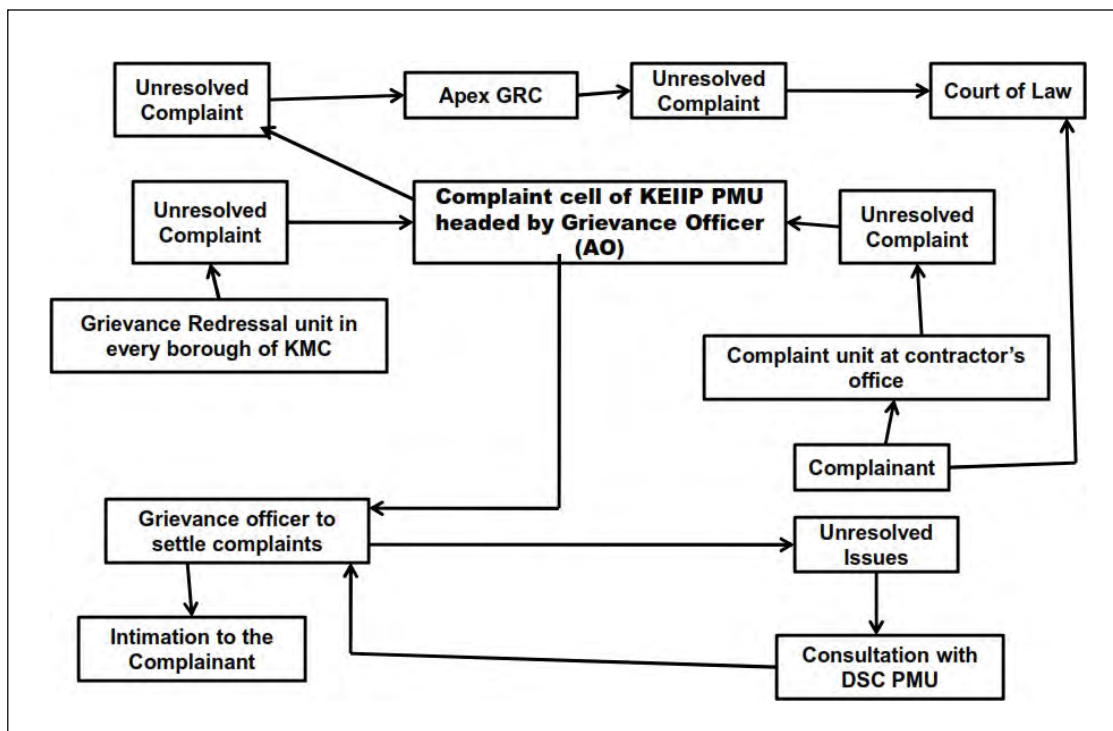


Figure 9: Grievance Redress Mechanism

Table 14: Summary of Grievance recorded and resolved in different packages of Tranche -2 during January to June, 2024

SI No.	Packages Name	Nature of compliant	Status of the issues register
1	SD-10T	Damage in existing water supply pipeline during excavation work, damage road condition due to pipe laying work, poor road restoration	Resolved within 1 day
2	SD-11T	Damage house service connection, poor road restoration, damage electric supply line under WBSEDCL	Resolved within 2 days
3	SD-13	Due to excavation and pipe laying work, public access was blocked, improper housekeeping, existing underground water supply pipe line damaged during excavation work, damage electrical cables (11KV)	Resolved within 1 day
4	WS-17A	Damage in existing water supply pipeline during excavation work	Resolved within 1 day
5	SD-19	Damage in existing water supply pipeline during excavation work	Resolved within 1 day

VIII FINDINGS AND RECOMMENDATIONS

50. 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.

51. During construction environmental monitoring has been done for all the packages.

52. Contractors have appointed full time Environment safety officer at their sites and submitting monthly EHS compliance as well as EMP compliances reports.

53. Based on the above, it may be concluded that KEIIP Tranche 2 sub projects have been implemented in almost full compliance of the required environmental safeguards during January, 2024 to June, 2024.

54. Sometime minor, localised and short duration non-compliances in some work sites of a few packages during this period was observed and pointed out to contractor by DSC Environment team and the issues were rectified in short time.

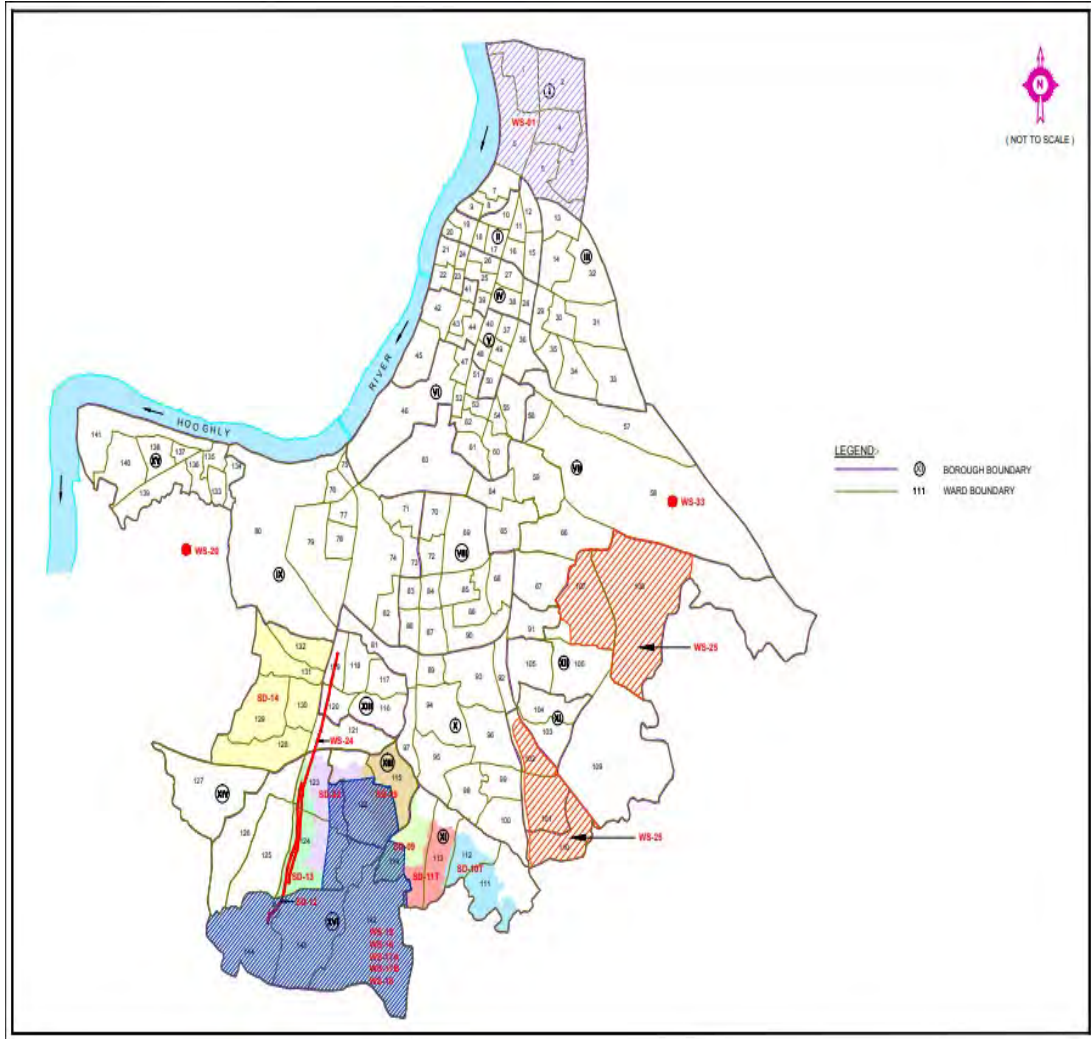
55. In order to further improvement and maintain satisfactory EMP compliances the following corrective action plan (Table 15) is recommended with target dates of compliance. The concerned contractors have been suitably advised. Contractors have also been advised to provide written commitment for implementation of corrective action plan.

Table 15: Corrective Action Plan

Sr. No.	Partial complied issues	Action Required	Responsible	Target Date	Indicator of Compliance
1	Application of EMP	Continue on regular basis	Contractor in association with PIU and DSC	Continuous process	Site observation and checking
2	Incomplete 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	Missing caution tape/ barricade at few locations of running packages	Complete use of caution tape/ barricade at all working sites	Contractor	Immediate	Site observation and checking
4	Non Availability of emergency contact no. at display/ caution board placed at few	Complete arrangement of display / caution board with all	Contractor	Immediate	Site observation

Sr. No.	Partial complied issues	Action Required	Responsible	Target Date	Indicator of Compliance
	work sites of running packages	emergency contact no.			
5	Air pollution and increase in dust at few work sites of the running packages.	Immediate action to be taken like, water sprinkling, maintaining of stack height in Dg set, use of CPCB approved green DG set etc.	Contractor	Immediate	Monitoring result
6	Housekeeping at labour camp/ rented house for contractor	keep safe and hygienic living condition	Contractor	Immediate	Site observation and checking
7	Training to workers	Regular tool box training for labour. Safeguard orientation training for contractor	Contractor, PIU, DSC	Continue process	Record keeping and safeguard implementation
8	Removal of excavated earth	Immediate action to be taken to avoid accident due spoil deposition at site	Contractor	Immediate	Site observation and checking

Appendix 1: Location map project area



Appendix 2: Project activities at project sites (in the period of January to June 2024)



Seal Breaking work (Maintaining proper PPEs and safety measure) in progress at Rania (SD-10T)



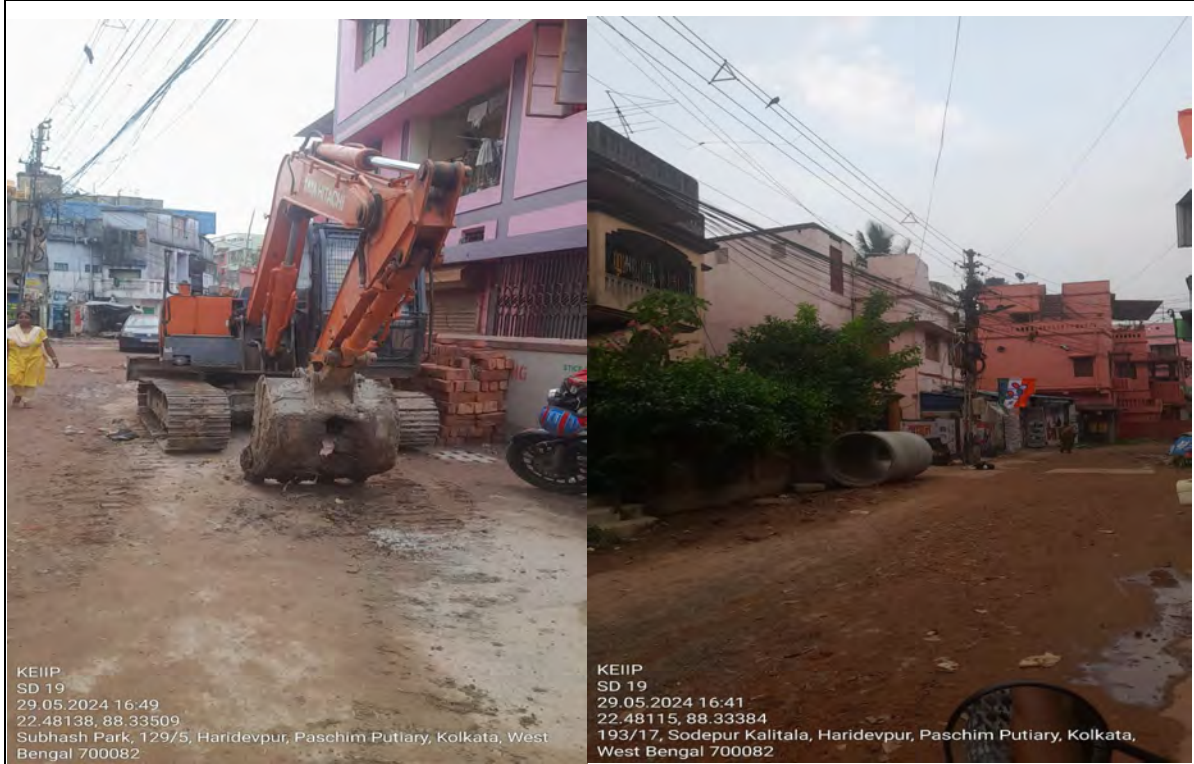
After pipe laying back filling and Rolling work in progress at Bramhapur (SD-11T)



**MS Pipe Welding works
at Prantik MG Road (WS-
17A)**



**Construction work in
progress at Kabar
Danga (WS-18)**



Road Restoration work is in progress at Haridevpur, Paschim Putiary (SD-19)




Manual excavation works in progress at Patuli (WS-25)

Appendix 3: Sample of PUC's

Form 59
[See rules 115 (2)]


Pollution Under Control Certificate
Authorised By :
Government of West Bengal

Date : 20/12/2023
Time : 08:53:47 AM
Validity upto : 19/06/2024



Certificate SL. No. : WB00100860008127
Registration No. : WB08D1955
Date of Registration : 07/Jun/2017
Month & Year of Manufacturing : January-2017
Valid Mobile Number : *****1269
Emission Norms : BHARAT STAGE III
Fuel : DIESEL
PUC Code : WB0010086
GSTIN : 19AJAPS8948N1Z7
Fees : Rs.100.0
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 (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	0.32

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://vahan.parivahan.gov.in>

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

Form 59
[See rules 115 (2)]


Pollution Under Control Certificate
Authorised By :
Government of West Bengal

Date : 24/09/2023
Time : 17:17:58 PM
Validity upto : 23/09/2024



Certificate SL. No. : WB01500320007548
Registration No. : WB25F5369
Date of Registration : 04/Feb/2015
Month & Year of Manufacturing : December-2014
Valid Mobile Number : *****4522
Emission Norms : EURO 4
Fuel : DIESEL
PUC Code : WB0150032
GSTIN : 19ADGPR0884A1ZJ
Fees : Rs.100.0
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 (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	1.62	0.32

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://vahan.parivahan.gov.in>

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

SD-10T

Form 59
[See rules 115 (2)]

Pollution Under Control Certificate
Authorised By :
Government of West Bengal

Date : 04/07/2023
Time : 10:48:39 AM
Validity upto : 03/07/2024

Certificate SL No. : WB06101380004218
Registration No. : WB24Y5567
Date of Registration : 12/Aug/2014
Month & Year of Manufacturing : July-2014
Valid Mobile Number : *****327
Emission Norms : EURO 4
Fuel : DIESEL
PUC Code : WB0610138
GSTIN : 19AFFF0134LIZG
Fees : Rs.-100.0
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	Carbon Monoxide (CO)	percentage (%)		
Idling Emissions	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	0.09

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://vahan.parivahan.gov.in>

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

Form 59
[See rules 115 (2)]

Pollution Under Control Certificate
Authorised By :
Government of West Bengal

Date : 18/12/2023
Time : 11:01:51 AM
Validity upto : 17/04/2024

Certificate SL No. : WB02501510002101
Registration No. : WB12AP3395
Date of Registration : 30/Jan/2017
Month & Year of Manufacturing : November-2016
Valid Mobile Number : *****5533
Emission Norms : BHARAT STAGE III
Fuel : DIESEL
PUC Code : WB0250151
GSTIN : 19AAQFT0837G1ZV
Fees : Rs.-100.0
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	Carbon Monoxide (CO)	percentage (%)		
Idling Emissions	Hydrocarbon, (THC/HC)	ppm		
	CO	percentage (%)		
High idling emissions	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	0.71

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://vahan.parivahan.gov.in>

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

SD-11T

Form 59
[See rules 115 (2)]

Pollution Under Control Certificate
Authorised By :
Government of West Bengal

Date : 14/07/2023
Time : 11:07:42 AM
Validity upto : 13/07/2024

Certificate SL No. : WB02501390012043
Registration No. : WB02AR1536
Date of Registration : 29/Apr/2021
Month & Year of Manufacturing : March-2021
Valid Mobile Number : *****6881
Emission Norms : BHARAT STAGE VI
Fuel : PETROL/I-YBRID
PUC Code : WB0250139
GSTIN :
Fees : 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 (%)	0.3	0.02
Idling Emissions	Hydrocarbon, (THC/HC)	ppm	200.0	7.0
	CO	percentage (%)	0.2	0.02
High idling emissions	RPM	RPM	2500 ± 200	2429.0
	Lambda	-	1 ± 0.03	1.0
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

SHREE SHANKAR SERVICE STATION
Ph. No. - 8336865705

Form 59
[See rules 115 (2)]

Pollution Under Control Certificate
Authorised By :
Government of West Bengal

Date : 16/07/2023
Time : 13:19:56 PM
Validity upto : 15/07/2024

Certificate SL No. : WB02503240000836
Registration No. : WB25F4416
Date of Registration : 20/02/2014
Month & Year of Manufacturing : August-2014
Valid Mobile Number : *****8464
Emission Norms : BHARAT STAGE IV
Fuel :
PUC Code :
GSTIN :
Fees :
ML observation : (GST to be paid extra as applicable)

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 (%)		
Idling Emissions	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	1.02

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

WS-18

UNITED INDIA INSURANCE COMPANY LIMITED
ENDORSEMENT SCHEDULE
STORAGE CUM ERECTION INSURANCE POLICY
UIN NO. IRDAN54SRP0044V01200708


Policy Number	030800447P10057628	Department	Engineering
Previous Policy Number			
Type of Policy	Storage Cum Erection Insurance Policy		
Policy Start Date	04/09/2023	Policy End Date	03/03/2024
Endorsement No.	19	Endorsement Effective Date	06/11/2023
Insured's Name	HE KOLKATA ENVIRONMENTAL IMPROVEMENT INVESTMENT PROGRAMME & SIMPLEX INFRASTRUCTURE LTD	Issuing Office	056403
Address	206, A. J. ROSE ROAD & SHOPRIE HOUSE, 37 SHIMLES ROAD, SEAHAT, WEST BENGAL, 708017	Office Address	2, SHARDAJI MARG, GOVIND BHAWAN I, 3RD FLOOR, KOLKATA, WEST BENGAL, 700001

SAC CODE	997127
Customer GST/UIN No.	15AAEC0195812P
Office GST No.	15AAAC055262103
Debit Note No. & Date	2301187071001 & 09/11/2023
Original Invoice No. & Date	4437410057519 & 04/09/2017

We hereby declare that though our aggregate turnover in any preceding financial year from 2017-18 onwards is more than the aggregate turnover notified under sub-rule (4) of rule 46, we are not required to prepare an invoice in terms of the provisions of the said sub-rule.

Issued Receipt No. & Date	102311071820085 & 06/11/2023
Endorsement Type	Extension of Policy of Existing Period

Endorsement Premium	₹ 432,509.00
Endorsement CGST (9%)	₹ 40,726.00
Endorsement SGST (9%)	₹ 40,726.00
Endorsement Stamp Duty	₹ 0.00
Total Endorsement Premium	₹ 513,961.00



UNITED INDIA INSURANCE COMPANY LIMITED

RECEIPT

Issuing Office Code/Address	010011004 KOLKATA, SHARDAJI MARG, GOVIND BHAWAN I, 3RD FLOOR, 700001	Receipt Number	1010100402311137971
		Collection Date	06/11/2023

Received with thanks from KOLKATA ENVIRONMENTAL IMPROVEMENT INVESTMENT PROGRAMME & SIMPLEX INFRASTRUCTURE LTD (Customer ID : 2101377567, Customer GST/UIN No : 15AAEC0195812P) a sum of Rs. 133961.000 Five lakhs thirty-three thousand nine hundred sixty-six rupees only) as per detail given hereunder:

Sl. No.	Policy Number	Policy Type	End/Reo/Clm/Decln No.	Particulars	Total Amount
1	030800447P10057619	StorageCumErectionInsurance	19	Final Premium	4,52,509.00
2	030800447P10057619	StorageCumErectionInsurance	19	CGST	40,726.00
3	030800447P10057619	StorageCumErectionInsurance	19	SGST	40,726.00
				Total (Rounded Off)	5,33,961.00
				Stamp Duty	0.00
				Bank Charges	0.00
				Total Amount	5,33,961.00

SD-19

Appendix 4: Workmen Compensation

THE NEW INDIA ASSURANCE CO. LTD.
(Government of India Undertaking)

POLICY SCHEDULE FOR EMPLOYEES COMPENSATION INSURANCE
UIN NUMBER - IRDAN190P0077100001

Insured's Name	SIMPLEX INFRASTRUCTURES LIMITED		
Customer ID	POB1903742	Office Code	Kolkata LCD 650000 (950000)
Address	"SIMPLEX HOUSE" 27, SHAKESPEARE SARANI, KOLKATA - 700017	Address	KMC, J.L. NEHRU ROAD, 3RD FLOOR, JEEVAN SUDHA BUILDING, 700071
Phone No	XXXXXX9999	Phone No	332869888 / 332980998
E-mail/Fax	SRI@S.Mukherjee@simplexinfra.com /	E-mail/Fax	na.650000@newindia.co.in /
PAN No	AAECSD798R	S. Tax Regn. No	AAACN465DST178
GSTIN/UIN	19AAECSD798R1ZM / N/A	GSTIN	19AAACN4166C1Z0
		SAC	997139 (Other non-IRB Insurance services except IR)

Policy Details

Policy Number	950003623010000010	Business Source Code	DIRECT BUSINESS - (1D1074823)
Period of Insurance	From: 23/05/2023 12:00:01 AM To: 22/05/2024 11:59:59 PM	Dev.Off level / Broker/Corp. Agent/Wh. Aggregator/OPBC User	
Date of Proposal	23 May 23	Age at Commencement/Specified Person	
Prev. Policy no.	950003623010000021	Phone No	
Client Type	Corporate	E-mail/Fax	

Premium (₹)	GST (₹)	Total (₹)	Total (₹ in words)	Receipt No. & Date
74,704	13,446	88,150	RUPEES EIGHTY-EIGHT THOUSAND ONE HUNDRED FIFTY ONLY	9500036123000000068 5-19/05/23

Details of Employees with monthly wages upto ₹ 15000:

Categories	Sub Categories	No of Employee	Cash Total Wages
Builders All employees engaged in shop or yard or in construction/ demolition of buildings and other civil construction like dams, bridges etc., incl. excavation	Excl. blasting and tunneling	100	18000000

Details of Employees with monthly wages above ₹ 15000:

Trade Description	Particular of Works	Location Details	No of Employee	Cash Total Wages
CIVIL CONTRACTOR	Sewerage and Drainage Network in Rania Box Catchment (Part of Ward 133, 112 & 113) Borough VI, Contract Package No. KEP/NCB/ITC/225D107/2019-191 Kolkata Environmental Improvement Investment Program - Kolkata Municipal Corporation	Simplex Infrastructures Limited, C/o Arup Consultants, 401A, Park Road, Near Thakurpukur Cancer Hospital, M.G. Road, South 24 Parganas, Kolkata - 700063	Included All Sub-Contractors	Yes

Contractor/Sub-Contractor Details:

Policy No. - 950003623010000010 Document generated by 38563 at 19/05/2023 17:48:15 Hours.
Regd. & Head Office: New India Assurance Bldg., 87 M.G. Road, Fort, Mumbai - 400 001. TOLL FREE No. 1 800 208 1415.

Page 1 of 2

THE NEW INDIA ASSURANCE CO. LTD.
(Government of India Undertaking)

Serial No	Name of Contractor	Description	Category	No. of Workers			Amount Wages
				Skilled	Unskilled	Others	
1	VARIOUS	VARIOUS	Builders All employees engaged in shop or yard or in construction/ demolition of buildings and other civil construction like dams, bridges etc., incl. excavation	0	5	0	16800000

Extensions under the Policy Cover

Name of the Extension	Sub Limit of the Extension	Deductibles of the Extension
Special Conditions:	ESTIMATED WAGES UP TO 18000000 (INCLUDING SUB-CONTRACTOR WORKERS(SKILLED, UNSKILLED, SEMI-SKILLED))	
	ESTIMATED NO. OF WORKERS: 100	

Special Exclusions : N/A
Special Excess/Deductible : N/A
The policy shall be subject to EMPLOYEES COMPENSATION INSURANCE Policy clauses attached herewith.

Clauses

Premium and GST Details:	Rate of Tax	Amount in INR
Premium		₹ 74,704
GST	18%	₹ 13,446
IGST	18%	₹ 13,446

In witness whereof the undersigned being duly authorized by the Insurers and on behalf of the Insurers has (have) hereunto set his (their) hand(s) on this 19th day of May, 2023.

For and on behalf of

The New India Assurance Company Limited

Date of issue: 19/05/2023

Duly Constituted Attorney(s)

Stamp Duty under the Act is ₹ _____
Mustack No. _____ consolidated Stamp Fees Paid by Pay Order Number _____ with receipt number _____ of _____

We hereby declare that though our aggregate turnover in any preceding financial year from 2017-18 onwards is more than the aggregate turnover notified under sub-rule (4) of rule 45 we are not required to prepare an invoice in terms of the provisions of the said sub-rule.

Tax Invoice No: 95000023E0000937

IRDA Registration Number: 190
NIA PAN NUMBER: AAACN4165C

Policy No. - 950003623010000010 Document generated by 38563 at 19/05/2023 17:48:15 Hours.
Regd. & Head Office: New India Assurance Bldg., 87 M.G. Road, Fort, Mumbai - 400 001. TOLL FREE No. 1 800 208 1415.

Page 2 of 2

Workmen Compensation Certificate of SD-10T

THE NEW INDIA ASSURANCE CO. LTD.
(Government of India Undertaking)




POLICY SCHEDULE FOR EMPLOYEES COMPENSATION INSURANCE
UIN NUMBER - IRDAN190P007100001

Insured's Name : SIMPLEX INFRASTRUCTURES LIMITED		Issuing Office Details	
Customer ID : PC00000192		Branch : BLD 950000 (950000)	
Address : SIMPLEX HOUSE, 27, SHAKESPEARE (SARANI), KOLKATA - 700017 KOLKATA, WEST BENGAL, 700017		Address : 42C, J.L. NEHRU ROAD 3RD FLOOR, JEEVAN SUDHA BUILDING, 700071	
Phone No : XXXXXX94959		Phone No : 332288585 / 332288098	
E-mail/Fax : Sanjit.Mukherjee@simplexinfra.com		E-mail/Fax : na.950000@newindia.co.in	
PAN No : AAEC30765R		B.Tax Regn. No : AAACN4186G51176	
GSTIN/UIN : 19AAEC30765R1ZM / NA		GSTIN : 19AAACN4186G51Z0	
		SAC : 887138 (Other gov/fe Insurance services - ext R)	

Policy Number : 9500003623010000009		Business Source Code	
Period of Insurance : From: 20/05/2023 12:00:01 AM To: 22/05/2024 11:59:59 PM		Dev. Off. Level / Broker/Corp. Agent/Web Agent/endorsement/PC User : DIRECT BUSINESS - (1111674822)	
Date of Proposal : 23-May-23		Agent/Broccurance/Agent/Specified Person	
Prev. Policy no. : 168000206220100000000		Phone No	
Client Type : Corporate		E-mail/Fax	

Premium(₹)	GST(₹)	Total (₹)	Total (₹ in words)	Receipt No. & Date
56,025	10,084	66,109	RUPEES SIXTY SIX THOUSAND ONE HUNDRED NINE ONLY	95000081230000000068 2 - 19/05/23

Details of Employees with monthly wages upto ₹ 15000:

Categories	Sub Categories	No of Employee	Cash Total Wages
Builders All employees engaged in shop or yard or in construction/demolition of buildings and other civil construction like dams, bridges etc. incl. excavation	Excl. blasting and tunneling	75	1330000

Details of Employees with monthly wages above ₹ 15000:

Trade Description	Particular of Works	Location Details	Included All Sub-Contractors
CIVIL CONTRACTOR	Sewerage & Drainage Network in Vivekananda Road Catchment (Part of Ward 113&114) and constructor of a pumping station in Sarobaj, including operation and maintenance of the pumping station Contract Package No.KIIP/NEBTR-2/50117/2018-19	Kolkata Environmental Improvement Program - EAC Simplex Infrastructures Limited, 7/6 Suma Talukder, S, Profulla Nagar, Flat no. 2, 1st Floor, P. S. Regent Park, Sankarim, Near Midall Sangrahalaya Club, Kolkata - 700070	Yes

Policy No. : 9500003623010000009 Document generated by 36563 at 19/05/2023 17:27:57 Hours.
Regd. & Head Office: New India Assurance Bldg., 87 M.G. Road, Fort, Mumbai - 400 001, TOLL FREE No. 1 800 209 1416.

Page 1 of 2

THE NEW INDIA ASSURANCE CO. LTD.
(Government of India Undertaking)



Contractor/Sub-Contractor Details:

Serial No	Name of Contractor	Description	Category	No of Workers			Amount Wages
				Skilled	Unskilled	Others	
1	VARIOUS	VARIOUS	Builders All employees engaged in shop or yard or in construction/demolition of buildings and other civil construction like dams, bridges etc. incl. excavation	0	0	0	13300000

Extensions Under the Policy Cover

Name of the Extension	Sub Limit of the Extension	Deductibles of the Extension
Special Conditions	ESTIMATED WAGES ₹: 13300000 INCLUDING SUBCONTRACTOR WORKERS(SKILLED, UNSKILLED, SEMI SKILLED)	
	ESTIMATED NO. OF WORKERS: 75	

Special Exclusions: NA
Special Excess/Deductible: NA

The Policy shall be subject to EMPLOYEES COMPENSATION INSURANCE Policy clauses attached herewith.

Premium and GST Details	Rate of Tax	Amount in INR
Premium	6	3360
GST	9	3024
COST	5	66109
GST	0	0

In witness whereof the undersigned being duly authorized by the insurers and on behalf of the insurers has (have) hereunto set his (their) hand(s) on this 19th day of May, 2023.

for and in behalf of

The New India Assurance Company Limited
Duly Constituted Attorney(s)

Date of Issue: 19/05/2023

Stamp Duty under this Policy is ₹ _____
Multi-ink _____ or consolidated Stamp Fees Paid by Pay Order Number _____ with receipt number _____ dt _____.

We hereby declare that though our aggregate turnover in any preceding financial year from 2017-18 onwards is more than the aggregate turnover notified under sub-rule (4) of rule 48, we are not required to prepare an invoice in terms of the provisions of the said sub-rule.





Tax Invoice No: 95000023E0000934

IRDA Registration Number: 190
NIA PAN NUMBER: AAACN4186C

Policy No.: 9500003623010000009 Document generated by 36563 at 19/05/2023 17:27:57 Hours.
Regd. & Head Office: New India Assurance Bldg., 87 M.G. Road, Fort, Mumbai - 400 001, TOLL FREE No. 1 800 209 1416

Page 2 of 2

Workmen Compensation Certificate of SD-11T

<div style="text-align: right; font-size: small;">  <p>TATA AIG INSURANCE WITH YOU ALWAYS</p> </div> <p>11. Period of Insurance: From 00:00 Hrs of 27/04/2024 to midnight of 26/04/2025 (both days inclusive)</p> <p>12. Premium Details:</p> <table style="width:100%; border: none;"> <tr> <td style="width: 60%;">Net Premium (Rs):</td> <td style="text-align: right;">13,001</td> </tr> <tr> <td>IGST @ 18%:</td> <td style="text-align: right;">2,448</td> </tr> <tr> <td>Stamp Duty:</td> <td style="text-align: right;">7.85</td> </tr> <tr> <td>Total Premium:</td> <td style="text-align: right;">16,057</td> </tr> <tr> <td>Gross Premium (In Words):</td> <td style="text-align: right;">Rupees Sixteen Thousand Fifty-Six And Sixty-Five Paise And Paise Zero Only</td> </tr> </table> <p>13. Details of Employees Covered: Refer Annexure "W"</p> <p>14. Subject to following clauses: Special conditions:</p> <ol style="list-style-type: none"> 1 Warranted that workers involved in underground work such as mines, tunneling, etc. and/or blasting are not covered. 2 Jurisdiction - India 3 Subject additionally to the following conditions, limitations, warranties. 4 Loss History for last 3 years:- no 5 Including cover for Contractor and sub contractor workers 6 Including Medical expenses upto INR 1,00,000 per person 7 Warranted that all employees working are harnessed properly with safety belts and safety ropes at all point of time and will also put on safety helmets and safety gloves. <p>Subject to terms and Conditions of Employees Compensation Insurance Policy wordings.</p> <p>Stamp Duty of Rs. 7.85 - is paid as provided under Article 47(CC) of Indian Stamp Act, 1999 and included in Consolidated Stamp Duty Paid to the Government of Maharashtra Treasury vide Order of Addl. Controller Of Stamps, Mumbai at General Stamp Office, Fort, Mumbai - 400001. vide this Order No. Validity Period Dt. To Dt/ Date:</p> <p style="text-align: right;">For Tata AIG General Insurance Company Limited</p> <p style="text-align: right;">Date: 27/04/2024</p> <div style="text-align: center; margin-top: 10px;">  Authorized Signatory </div> <p>This Policy and its conditions should be examined, and if incorrect returned at once for alteration. Every change affecting the risks insured by this Policy must be immediately advised to the Company. Failure to do this might result in the insurance ceasing to be of effect. The Policy is not transferable from the Insured to any person unless the Company's written consent has been obtained. Notice should be given as soon as practicable but not exceeding 30 days.</p> <p>For policy wordings, please scan the QR code</p> <div style="text-align: center; margin-top: 10px;">  </div> <div style="text-align: center; margin-top: 10px; font-size: x-small;"> <p>Policy sending address 5TH AND 6TH FLOOR, IMPERIAL TOWERS, H.NO 7-1-8-617/A, GHMC NO - 615,616, AMBERPET, HYDERABAD - 500016 HYDERABAD-500016 TELANGANA</p> </div> <p style="font-size: x-small; margin-top: 10px;">Insurance is the subject matter of the solicitation. For more details on risk factors, terms and conditions, please read sales brochure carefully before concluding a sale. Tata AIG General Insurance Company Limited. Regd Office: 15th Floor, Tower A, Peninsula Business Park, G. K. Marg, Lower Parel, Mumbai - 400 013, Maharashtra, India. Toll Free No. (24x7): 1800 266 7750 Email: customersupport@tataaig.com IRDA of India Registration No: 108 Website: www.tataaig.com CIN: U95110MH2002PLC128428 PAN: AAABCT3318Q UIN: IRDAN108CP0011V02202122</p>	Net Premium (Rs):	13,001	IGST @ 18%:	2,448	Stamp Duty:	7.85	Total Premium:	16,057	Gross Premium (In Words):	Rupees Sixteen Thousand Fifty-Six And Sixty-Five Paise And Paise Zero Only	<div style="text-align: right; font-size: small;">  <p>TATA AIG INSURANCE WITH YOU ALWAYS</p> </div> <p style="text-align: center;">EMPLOYEES COMPENSATION INSURANCE PROPOSAL FORM</p> <p>If at any time during the Period of Insurance any Employee of the Insured so declared shall sustain injury by accident arising out of and in the course of his employment in the Business, Indemnity shall be under Law(s) opted for, subject to the terms, exceptions and conditions contained in the Policy wordings or endorsed hereon, upto the Limit of Indemnity against all sums for which the Insured shall be so liable which is agreed by the Insurer and mentioned on the Policy Schedule</p> <p>Proposer's name in full: FFIL-RIL JV</p> <p>Proposer's business [Correspondence] address: GROUND FLOOR, CG 78, SECTOR II,GROUND FLOOR, CG 78, SECTOR ILSY NO 136 / 2 & 4, GACHIBOWLI, 700091, 24 PARAGANAS SOUTH-700091,24 PARAGANAS SOUTH-WEST BENGAL</p> <p>Proposer's trade or occupation: As Per Annexure</p> <p>Particulars of work to be covered in Detail: All projects / Works like infrastructure, Real Estates and other projects development including Digging and Excavation work involved upto 5 feet deep</p> <p>Risk Location address(s) Location 1 KEIIP WS18 PROJECT (WESTBENGAL) HRBC SANTRAGACHI FLYOVER, (WEST BENGAL),PHED WTP PROJECT AT NEWTOWN RAJARHAT HARDA BHANGAR & 24 PARAGANAS (NORTH), 700091, BICHANNAGAR, WEST BENGAL, - SALT LAKE, 700091, 24 PARAGANAS SOUTH, WEST BENGAL, India</p> <p>Policy Period: From: 27/04/2024 To 26/04/2025</p> <table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th colspan="4" style="text-align: center;">COVERAGE'S REQUIRED</th> </tr> <tr> <th style="width: 15%;">Coverage</th> <th style="width: 45%;">Scope of coverage</th> <th style="width: 20%;">Aggregate Limit of Indemnity</th> <th style="width: 20%;">Coverage Options (Yes/No)</th> </tr> </thead> <tbody> <tr> <td>Employees Compensation</td> <td>Subject otherwise, to the terms,conditions & Exclusions of the Policy, the amount of liability incurred by the Insured.</td> <td>Limit: As per Employees Compensation Act</td> <td>Yes</td> </tr> <tr> <td>Fatal Accident Act, 1855</td> <td>Subject otherwise, to the terms,conditions & Exclusions of the Policy, the amount of liability incurred by the Insured.</td> <td>Limit: As per Fatal Accident Act</td> <td>Yes</td> </tr> <tr> <td>Common Law</td> <td>Subject otherwise, to the terms,conditions & Exclusions of the Policy, the amount of liability incurred by the Insured, but not exceeding:</td> <td>a) Limit Per Employee for any number of accidents during Period of Insurance Rs. <u>Not applicable</u> b) Limit Per Accident for any number of Employees Rs. <u>Not applicable</u> c) Aggregate Limit for all accidents and claims arising there from during the Period of Insurance Rs. <u>750000000</u></td> <td>Yes</td> </tr> <tr> <td>Medical Expenses:</td> <td>Subject otherwise, to the terms,conditions & Exclusions of the Policy, the amount of liability incurred by the Insured, but not exceeding:</td> <td>d) Limit Per Employee for any number of accidents during Period of Insurance Rs. 100000 e) Aggregate liability for all accidents during the Period of Insurance Rs. 0 Medical Expenses as per actual - No</td> <td></td> </tr> <tr> <td>Occupational Diseases</td> <td>Subject otherwise, to the terms,conditions & Exclusions of the Policy, the amount of liability incurred by the Insured, but not exceeding:</td> <td>f) Limit Per Employee Rs. 0 g) Aggregate liability of the company foall employees during the Period of 0</td> <td></td> </tr> </tbody> </table> <p style="font-size: x-small; margin-top: 10px;">Insurance is the subject matter of the solicitation. For more details on risk factors, terms and conditions, please read sales brochure carefully before concluding a sale. Tata AIG General Insurance Company Limited. Regd Office: 15th Floor, Tower A, Peninsula Business Park, G. K. Marg, Lower Parel, Mumbai - 400 013, Maharashtra, India. Toll Free No. (24x7): 1800 266 7750 Email: customersupport@tataaig.com IRDA of India Registration No: 108 Website: www.tataaig.com CIN: U95110MH2002PLC128428 PAN: AAABCT3318Q UIN: IRDAN108CP0011V02202122</p>	COVERAGE'S REQUIRED				Coverage	Scope of coverage	Aggregate Limit of Indemnity	Coverage Options (Yes/No)	Employees Compensation	Subject otherwise, to the terms,conditions & Exclusions of the Policy, the amount of liability incurred by the Insured.	Limit: As per Employees Compensation Act	Yes	Fatal Accident Act, 1855	Subject otherwise, to the terms,conditions & Exclusions of the Policy, the amount of liability incurred by the Insured.	Limit: As per Fatal Accident Act	Yes	Common Law	Subject otherwise, to the terms,conditions & Exclusions of the Policy, the amount of liability incurred by the Insured, but not exceeding:	a) Limit Per Employee for any number of accidents during Period of Insurance Rs. <u>Not applicable</u> b) Limit Per Accident for any number of Employees Rs. <u>Not applicable</u> c) Aggregate Limit for all accidents and claims arising there from during the Period of Insurance Rs. <u>750000000</u>	Yes	Medical Expenses:	Subject otherwise, to the terms,conditions & Exclusions of the Policy, the amount of liability incurred by the Insured, but not exceeding:	d) Limit Per Employee for any number of accidents during Period of Insurance Rs. 100000 e) Aggregate liability for all accidents during the Period of Insurance Rs. 0 Medical Expenses as per actual - No		Occupational Diseases	Subject otherwise, to the terms,conditions & Exclusions of the Policy, the amount of liability incurred by the Insured, but not exceeding:	f) Limit Per Employee Rs. 0 g) Aggregate liability of the company foall employees during the Period of 0	
Net Premium (Rs):	13,001																																						
IGST @ 18%:	2,448																																						
Stamp Duty:	7.85																																						
Total Premium:	16,057																																						
Gross Premium (In Words):	Rupees Sixteen Thousand Fifty-Six And Sixty-Five Paise And Paise Zero Only																																						
COVERAGE'S REQUIRED																																							
Coverage	Scope of coverage	Aggregate Limit of Indemnity	Coverage Options (Yes/No)																																				
Employees Compensation	Subject otherwise, to the terms,conditions & Exclusions of the Policy, the amount of liability incurred by the Insured.	Limit: As per Employees Compensation Act	Yes																																				
Fatal Accident Act, 1855	Subject otherwise, to the terms,conditions & Exclusions of the Policy, the amount of liability incurred by the Insured.	Limit: As per Fatal Accident Act	Yes																																				
Common Law	Subject otherwise, to the terms,conditions & Exclusions of the Policy, the amount of liability incurred by the Insured, but not exceeding:	a) Limit Per Employee for any number of accidents during Period of Insurance Rs. <u>Not applicable</u> b) Limit Per Accident for any number of Employees Rs. <u>Not applicable</u> c) Aggregate Limit for all accidents and claims arising there from during the Period of Insurance Rs. <u>750000000</u>	Yes																																				
Medical Expenses:	Subject otherwise, to the terms,conditions & Exclusions of the Policy, the amount of liability incurred by the Insured, but not exceeding:	d) Limit Per Employee for any number of accidents during Period of Insurance Rs. 100000 e) Aggregate liability for all accidents during the Period of Insurance Rs. 0 Medical Expenses as per actual - No																																					
Occupational Diseases	Subject otherwise, to the terms,conditions & Exclusions of the Policy, the amount of liability incurred by the Insured, but not exceeding:	f) Limit Per Employee Rs. 0 g) Aggregate liability of the company foall employees during the Period of 0																																					

Workmen Compensation Certificate of WS-18

THE NEW INDIA ASSURANCE CO. LTD.
(Government of India Undertaking)

POLICY SCHEDULE FOR EMPLOYEES COMPENSATION INSURANCE
UIN NUMBER - IRDAN190P07710001

Insured's Name		Insurer's Details		Issuing Office Details	
SMBR EX INFRASTRUCTURE LTD		Customer ID : 9021503786		Office Code : Kolkata LCO 950000 (050000)	
Address : HUSSAINI BANGLA, A-525, DABUR RD, KOLKATA, WEST BENGAL, 700104		Address : 42C, J.L. NEHRU ROAD 3RD FLOOR, IRTWARI BLDG BLDG, 700011		Address : 42C, J.L. NEHRU ROAD 3RD FLOOR, IRTWARI BLDG BLDG, 700011	
Phone No : 9800000000		Phone No : 9800000000		Phone No : 9800000000	
Email/Fax : sarjanshree@smbrinfra.com		Email/Fax : info@newindia.co.in		Email/Fax : info@newindia.co.in	
PAN No : IRAN/0507789112M7 NA		GSTIN No : 19AAACN4165C1179		GSTIN No : 19AAACN4165C1179	
Client Type : Corporate		Special Exclusions : NA		Special Exclusions : NA	

Policy Details		Business Source Code	
Policy Number : 9500003624010000022		D/FRECT BUSINESS (1D1077462)	
Period of Insurance : From 04/06/2024 12:00:01 AM To 03/06/2024 11:59:59 PM		Date of Proposal : 04 Jun 24	
Date of Proposal : 04 Jun 24		Specified Person : [Blank]	
Premium (₹) : 9,338		Total (₹) : 11,018	
GST (%) : 1.880		Total (₹ in words) : ELEVEN THOUSAND ONE HUNDRED AND EIGHTEEN ONLY	
Receipt No. & Date : 950000124090000081 9-05/06/24		Receipt No. & Date : 950000124090000081 9-05/06/24	

Details of Employees with monthly wages upto ₹ 15000:

Categories	Sub Categories	No of Employee	Cash Total Wages
Builders All employees engaged in shop or yard or in construction/demolition of buildings and other civil construction like dams, bridges etc. incl. excavation	Excl. blasting and tunnelling	50	225000

Details of Employees with monthly wages above ₹ 15000:

Trade Description	Particular of Works	Location Details	Included All Sub-Contractors
CIVIL CONTRACTOR	DEVELOPMENT OF S&D NETWORK IN TOLLY'S MULLAHOSE PAPER/JA CANAL SUBSTATION IN PART OF WARDS 115 AND 122 INCLUDING CONSTRUCTION OF A SWP PUMPING STATION.	IN THE PREMISES OF JUDGMENT LS-5 AND AUGMENTATION OF RESERVOIR IN PS CONTRACT PALKOTE NO.KEIP/PC/S (TR-25/01/2016-17.	Yes

Serial No.	Name of Contractor	Description	Category	No. of Workers	Amount Wages
1	[Blank]	[Blank]	[Blank]	[Blank]	[Blank]

Policy No. : 9500003624010000022 Document generated by 30563 at 05/06/2024 17:44:04 Hours.
Regd. & Head Office: New India Assurance Bldg., 87 M.G. Road, Fort, Mumbai - 400 001. TOLL FREE No. 1 800 200 1415.

THE NEW INDIA ASSURANCE CO. LTD.
(Government of India Undertaking)

1	VARIOUS	VARIOUS	Builders All employees engaged in shop or yard or in construction/demolition of buildings and other civil construction like dams, bridges etc. incl. excavation	0	0	30	225000
Extensions under the Policy Cover				Name of the Extension		Sub Limit of the Extension	
Special Conditions				ESTIMATED WAGES:RS.225000.00(INCLUDING SUBCONTRACTOR WORKERS/SKILLED,UNSKILLED,SEMI-SKILLED)			
Special Exclusions				ESTIMATED NO. OF WORKERS:50			
Special Excesses/Deductible				NA			
The Policy shall be subject to EMPLOYEES COMPENSATION INSURANCE Policy clauses attached herewith				Clauses			
Premium and GST Details				Rate of Tax		Amount in INR	
Premium				9		₹ 5,138	
SGST				9		₹ 840	
CGST				9		₹ 840	
IGST				0		₹ 0	

In witness whereof the undersigned being duly authorised by the Insurers and on behalf of the Insurers has (have) hereunder set his (their) hand(s) on this 05th day of June, 2024.

For and on behalf of
The New India Assurance Company Limited
Date of Issue: 05/06/2024
Duly Constituted Attorneys)

Stamp Duty under the Policy is ₹ _____
Mistakenly DT: _____ consolidated Stamp Fees Paid by Pay Order Number _____ vide receipt number _____ of _____.

We hereby declare that though our aggregate turnover in any preceding financial year from 2017-18 onwards is more than the aggregate turnover notified under sub-rule (4) of rule 48, we are not required to prepare an invoice in terms of the provisions of the said sub-rule.

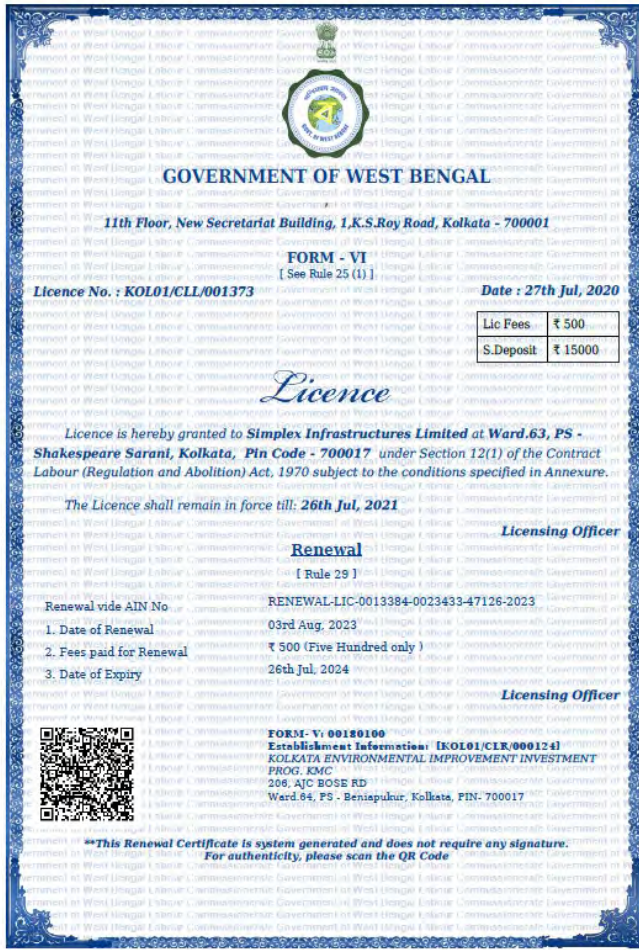
Tax Invoice No. : 95000024E0001001
IRDA Registration Number: 190
NIA PAN NUMBER: AAACN4165C

Policy No. : 9500003624010000022 Document generated by 30563 at 05/06/2024 17:44:04 Hours.
Regd. & Head Office: New India Assurance Bldg., 87 M.G. Road, Fort, Mumbai - 400 001. TOLL FREE No. 1 800 200 1415.

Workmen Compensation Certificate of SD-19

EMPLOYEES COMPENSATION INSURANCE			
UIN: IRDAN108CP0011V02202122			
POLICY SCHEDULE			
	LAW	LIMIT OF INDEMNITY	COVERAGE
11(c)	Common Law	Subject otherwise, to the terms, conditions & Exclusions of the Policy, the amount of liability incurred by the Insured, but not exceeding:- a) Limit Per Employee for any number of accidents during Period of Insurance Rs. _____ b) Limit Per Accident for any number of Employees Rs. _____ c) Aggregate Limit for all accidents and claims arising therefrom during the Period of Insurance Rs. 750000000	YES
12.Period of Insurance: From 00:00 Hrs of 15/05/2024 to midnight of 14/05/2025 (both days inclusive)			
13.Premium Details:			
Net Premium:			Rs. 3,71,532
IGST			Rs. 66,876
Stamp Duty:			Rs. 186
Gross Premium:			Rs. 4,38,594
GST Registration No.: 07AABCT3518Q1ZY , DELHI , Service Accounting Code : 997137			
14.Details of Employees Covered:			
Description of work done by Employees	Declared Number of Employees	Declared Wages during the Period of Insurance	Place/Places of Employment
EPC/ Water Supply/ Water Treatment	469	815446548	Coverage provided is for "All over India".The specific risk locations (if any) will be as per the mentioned below. "PAN INDIA, 122001, GURGAON, HARYANA "
15.Subject to following clauses:			
Special conditions:			
<ul style="list-style-type: none"> * Subject additionally to the following conditions, limitations, warranties. * Warranted that workers involved in underground work such as mines, tunneling, etc. and/or blasting are not covered. * Jurisdiction - India * Including cover for Contractor and sub contractor workers * Including Medical expenses upto INR 50000 per person * Loss History for last 3 years: - no 			
Subject to terms and Conditions of Employees Compensation insurance Policy wordings attached herewith.			
Date: 22-05-2024 13:32		For Tata AIG General Insurance Company Ltd.	
PLACE OF SUPPLY: HARYANA		 AUTHORISED SIGNATORY	
STATE CODE: 8			
<small>Tata AIG General Insurance Company Limited - Registered Office: Peninsula Business Park, Tower A, 15th Floor, G.K. Marg, Lower Parel, Mumbai - 400013, Maharashtra, India 24x7 Toll Free No: 1800 266 7780 Fax: 022 5633 8170 Email: customersupport@tataaig.com Website: www.tataaig.com RDA of India Registration No: 108 CIN:U85110MH2000PLC129425</small>			
Workmen Compensation Certificate of WS-25			

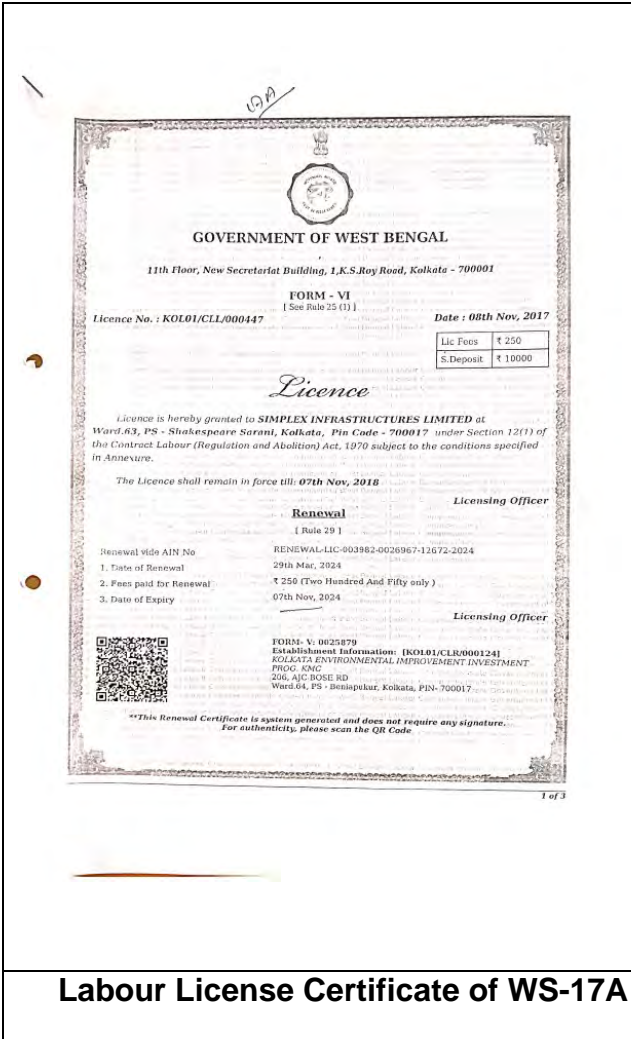
Appendix 5: Labour License



Labour License Certificate of SD-10T



Labour License Certificate of SD-11T



Labour License Certificate of WS-17A



Labour License Certificate of WS-18

Appendix 6: Monitoring activities at project site



Environmental monitoring at the site of SD-10T



Environmental monitoring at the site of SD-11T



Environmental monitoring at the site of WS-17A



Environmental monitoring at the site of WS-18



Environmental monitoring at the site of SD-19

Appendix 7: Samples of site inspection reports

KEIIP/NEB/TR-2/SD-10T/2018-19 Date of Inspection 09/03/2024

Project Name: SD-10T Initial site condition: Satisfactory Weather condition: Sunny

Satisfactory Unsatisfactory Incident Recovered Unresolved

SAMPLE CHECK LIST FOR CONSTRUCTION SITE SAFETY INSPECTION

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

Name: *[Signature]* Position: *Contractor safety officer/supervisor/engineer inspection*

Name: *Simon Mathra, Project Asst* Position: *KEIIP/KMC*

15/3/24

Site inspection Report of SD-10T

KEIIP/NEB/TR-2/SD-11T/2018-19 Date of Inspection 29.01.24

Project Name: 11T Initial site condition: Satisfactory Weather condition: Pleasant

Satisfactory Unsatisfactory Incident Recovered Unresolved

SAMPLE CHECK LIST FOR CONSTRUCTION SITE SAFETY INSPECTION

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

Name: *[Signature]* Position: *Contractor safety officer/supervisor/engineer inspection*

Name: *Pavitra Raut* Position: *P.P. Asst (KEIIP/KMC)*

Site inspection Report of SD-11T

Date of inspection: 13/02/2024

SAMPLE ENVIRONMENTAL SITE INSPECTION REPORT

Project Name: KEIIP/NEA/TRAWS-18/2016-17 Weather condition: Dry
Kaban Tiga (Area 11) Initial site condition: Good

Satisfactory Unsatisfactory Incomplete Resolved Unresolved

SAMPLE CHECKLIST FOR CONSTRUCTION SITE SAFETY INSPECTION

S/N	Safety Issues	Yes	No	Not Applicable
1	Safety officer/supervisors - full time during inspection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Approval for construction permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Risk statement handed over to the contractor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Traffic Management	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Barricade/barricade/caution tapes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Flags and warning lights	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Providing plastic crash barrier	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Adequate staging at deep excavations works (height more than 3m)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Demarcation (fencing, grading and watching)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	Sufficient lighting, especially for night	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	Controlled access and entry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	Safety arrangements for road users/pedestrians	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	Construction worker safety equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Helmets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Safety shoes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Dust mask	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Hand gloves	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Safety belts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Reflective gear	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	Workshop protective shields for welding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	Reverse horns (all vehicles)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	Health	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Regular health check-up	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• First aid arrangement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	Sanitary conditions/ waste disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	Drinking water	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	Ensure fire safety at site	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a) Fire extinguisher & sand bucket	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b) Covered fire stand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c) Pulling date	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	Electrical safety at site	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Caution sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Wooden plank/rubber mat	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Insulated connection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24	Cylinder	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a) Gas cylinder position	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b) Non usage of domestic cylinder at site	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25	Register	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Tool box talk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Clearance register	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Attendance register	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• PUC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Labour license	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Workman Compensation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26	Emergency Assembly point	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Name: Maximilian Bahannan Moka
 Position: Project Asst.

**Site inspection Report of
WS-18**

Date of visit: 20/10/2024

SAMPLE ENVIRONMENTAL SITE INSPECTION REPORT

Project Name: SD19 (KEIIP/NEA/TRAWS-18/2016-17) Weather condition: Dry

Satisfactory Unsatisfactory Incomplete Resolved Unresolved

SAMPLE CHECKLIST FOR CONSTRUCTION SITE SAFETY INSPECTION

S/N	Safety Issues	Yes	No	Not Applicable
1	Safety officer/supervisors - full time during inspection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Approval for construction permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Risk statement handed over to the contractor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Traffic Management	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Barricade/barricade/caution tapes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Flags and warning lights	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Providing plastic crash barrier	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Adequate staging at deep excavations works (height more than 3m)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Demarcation (fencing, grading and watching)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	Sufficient lighting, especially for night	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	Controlled access and entry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	Safety arrangements for road users/pedestrians	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	Construction worker safety equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Helmets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Safety shoes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Dust mask	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Hand gloves	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Safety belts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Reflective gear	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	Workshop protective shields for welding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	Reverse horns (all vehicles)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	Health	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Regular health check-up	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• First aid arrangement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	Sanitary conditions/ waste disposal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	Drinking water	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	Ensure fire safety at site	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a) Fire extinguisher & sand bucket	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b) Covered fire stand	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c) Pulling date	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	Electrical safety at site	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Caution sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Wooden plank/rubber mat	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Insulated connection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24	Cylinder	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a) Gas cylinder position	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b) Non usage of domestic cylinder at site	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25	Register	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Tool box talk	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Clearance register	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Attendance register	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• PUC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Labour license	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	• Workman Compensation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26	Emergency Assembly point	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Name: Arhim Kurnia (Project Assistant)
 Position: Dist. Management (M.E.)

Date of Submission: 22/10/2024

**Site inspection Report of
SD-19**

Appendix 8: Environmental Standards

National Ambient Air quality Standards, 2009

[भाग III]—खण्ड 4]		भारत का राजपत्र : असमाह्वय			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 th April, 1994 and S.O. 935(E), dated 14 th 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 ₂), µg/m ³	Annual* 24 hours**	50 80	20 80	- Improved West and Gaeke - Ultraviolet fluorescence
2	Nitrogen Dioxide (NO ₂), µg/m ³	Annual* 24 hours**	40 80	30 80	- Modified Jacob & Hochheiser (Na-Arsenite) - Chemiluminescence
3	Particulate Matter (size less than 10µm) or PM ₁₀ µg/m ³	Annual* 24 hours**	60 100	60 100	- Gravimetric - TOEM - Beta attenuation
4	Particulate Matter (size less than 2.5µm) or PM _{2.5} µg/m ³	Annual* 24 hours**	40 60	40 60	- Gravimetric - TOEM - Beta attenuation
5	Ozone (O ₃) µg/m ³	8 hours** 1 hour**	100 180	100 180	- UV photometric - Chemiluminescence - Chemical Method
6	Lead (Pb) µg/m ³	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 ³	8 hours** 1 hour**	02 04	02 04	- Non Dispersive Infra Red (NDIR) spectroscopy
8	Ammonia (NH ₃) µg/m ³	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 ₆ H ₆) µg/m ³	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 ³	Annual*	01	01	- Solvent extraction followed by HPLC/GC analysis
11	Arsenic (As), ng/m ³	Annual*	06	06	- AAS/ICP method after sampling on EPM 2000 or equivalent filter paper
12	Nickel (Ni), ng/m ³	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. 384(E), dated 11th April, 1994 and S.O. 935(E), dated 14th October, 1998.

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and Published by the Controller of Publications, Delhi-110058.

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"> Total coli form organisms MPN/100 ml shall be 50(max.) pH between 6.5 to 8.5 Dissolved Oxygen (Min) 6 mg/l BOD (max) 5 days < 2.00 mg/l
Outdoor bathing(Organised)	B	<ol style="list-style-type: none"> Total coli form organisms MPN/100 ml shall be 500 (max.) Fecal Coli form MPN/100 mg. to be 2500 (max.) for Ganga Action Plan. pH between 6.8 to 8.5. Dissolved Oxygen (min) 4 mg/l BOD (Max.) 5 days @ 3 mg/l
Drinking water with conventional treatment Followed by disinfections	C	<ol style="list-style-type: none"> Total coli form organisms MPN/100 ml shall be 5000 (max.) pH between 6.8 to

		<p>3. Dissolved Oxygen (min) 4 mg/l</p> <p>4. BOD (max.) 5 days @ 3 mg/l</p>
Propagation of wild life Fisheries.	D	<p>1. pH between 6.5 to 8.5</p> <p>2. Dissolved Oxygen (min) 4 mg/l.</p> <p>3. Free Ammonia (as N) (max)1.2mg/l.</p>
Irrigation, industrial cooling, and Controlled disposal	E	<p>1. pH between 6.0 and 8.5</p> <p>2. Electrical conductivity less than 2250 micro mhos/cm,</p> <p>3. Sodium Aborption Ratio less than 26, and Boron less than 2 mg/l</p>

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






ISO 9001:2015


APEX INSTITUTE OF MEDICAL SCIENCES

(A Unit of APEX HOSPITEX AND NEUROSCIENCE PRIVATE LIMITED)

A Multi Speciality Modern State of Art Nursing Home Built, Operated and Run By a Team of Dedicated Doctors
Bldg. Office/Hospital : 1219, Survey Park, Sandoochpur, Kolkata - 700075,
Phone : 033-7125-4666 / 2416-8122 / 4307 / 4643 / 4555, Mob.: 858495440, 8981020207
Toll Free No.: 1800 123 103696, Fax : 7125 5658 • E-mail : apeximskolkata@gmail.com, Website : www.apeximskolkata.com
CIN : UB5110WB2002PTC094961

Empanelment for the medical treatment of you employees/workers. 05.03.2022

To
Mr. Uttam Kumar Ghosh
Sr. Executive Administration
Suez India Pvt Ltd,
1/15F Gopal Chandra Bose Lane,
Sinthee, Kolkata – 700050

Dear Sir,

This is in reference to your mail dated 11th November 2021 we agree with your proposal under the following broad conditions: -

1. Your referred patient will be issued Privilege Card which will attract discount as per laid down procedure as follows
 - i) 10% on Pharmacy Bills
 - ii) 10% on Pathological Investigations
 - iii) 10% on OPD Fees
 - iv) 10% on Doctor's Fees
2. Your patient will be treated as cash patient. Hence the patient bill needs to be settled against cash payment before discharge.
3. Our rates are moderate and affordable compare to the service that we provide.

Thanking you,
Yours sincerely,

S.K. Mondal
Manager (Administration)

HEALTH CAMP AT WS 25

Appendix 10: Public Consultation at project sites



Public Consultation at SD-10T



Public Consultation at SD-11T



Public Consultation at WS-18





Public Consultation at WS-25

Appendix 11: Toolbox training at project sites



Photographs of Toolbox Talk at WS-17A



Photographs of Toolbox Talk at WS-18



Photographs of Toolbox Talk at SD-19



SUEZ INDIA PRIVATE LIMITED
TOOLBOX MEETING REGISTER

DATE: 29/02/24
SITE / LOCATION: Raipur, B.H.
CONDUCTED BY: Rangit Kundra
SUBJECTS DISCUSSED: Restoration work safety.

DETAILS OF DISCUSSION:-
1. All Labour Instruction Regularly Base maintain all equipment to ensure proper functioning and safety.
2. Every Labour daily Base Excavation Area Properly Barricade then work start.

ATTENDANCE:-

SL/NO	NAME	DESIGNATION / TRADE	AGENCY / COMPANY	SIGNATURE
1.	Goutam Das	swild	Gryntel	
2.	vijay kumar	A	A	
3.	Pulkit Kozia	A	A	
4.	Nikhil Kulkarni	A	A	
5.	Eman Bauri	A	A	
6.	Kailash Bauri	A	A	
7.	Nepal Sardaar	A	A	
8.	Raj Bauri	A	A	
9.	Sudhansu Mondal	A	A	
10.				
11.				
12.				

NAME:- Rangit Kundra
DESIGNATION:- safety supervisor
SIGNATURE:-

SUEZ INDIA PRIVATE LIMITED
TOOLBOX MEETING REGISTER

DATE: 29/02/24
SITE / LOCATION: Garden Reach
CONDUCTED BY: S. Gaur
SUBJECTS DISCUSSED: welding safety 2nd

DETAILS OF DISCUSSION:-
1. Before work starting welding work prepare the work area (by electric away cables) and all equipment daily Base check.
2. Ensure that welding equipment is properly maintained check and ensure proper cylinder valves, fittings & pressure group etc.

ATTENDANCE:-

SL/NO	NAME	DESIGNATION / TRADE	AGENCY / COMPANY	SIGNATURE
1.	Prakash	swild	Jay Shree	
2.	Sambhu Das	swild	A	
3.	Prakash Halder	swild	A	
4.	Bijoy Halder	swild	A	
5.	Prakash Halder	swild	A	
6.	Prakash Halder	swild	A	
7.	Prakash Halder	swild	A	
8.				
9.				
10.				
11.				
12.				

NAME:- S. Gaur
DESIGNATION:- safety supervisor
SIGNATURE:-

SUEZ INDIA PRIVATE LIMITED
TOOLBOX MEETING REGISTER

DATE: 29/02/24
SITE / LOCATION: Garden Reach Area
CONDUCTED BY: Rangit Kundra
SUBJECTS DISCUSSED: P.P.E safety work

DETAILS OF DISCUSSION:-
1. Conduct Regular inspection of the work site to identify and Address Potential Safety Hazards Promptly.
2. Daily Base Inspect P.P.E Regularly to ensure it Remains in good condition and Replace any damaged or worn out equipment promptly.

ATTENDANCE:-

SL/NO	NAME	DESIGNATION / TRADE	AGENCY / COMPANY	SIGNATURE
1.	Sambhu Das	swild	Jay Shree	
2.	Prakash Halder	A	A	
3.	Prakash Halder	A	A	
4.	Sambhu Halder	A	A	
5.	Bijoy Halder	A	A	
6.	Prakash Halder	A	A	
7.	Prakash Halder	A	A	
8.	Prakash Halder	A	A	
9.				
10.				
11.				
12.				

NAME:- Rangit Kundra
DESIGNATION:- safety supervisor
SIGNATURE:-

SUEZ INDIA PRIVATE LIMITED
TOOLBOX MEETING REGISTER

DATE: 29/02/24
SITE / LOCATION: Garden Reach Area
CONDUCTED BY: Rangit Kundra
SUBJECTS DISCUSSED: Electrical Tools safety.

DETAILS OF DISCUSSION:-
1) Daily Base All labour Instruction Do not use tools with Damaged Cords, Plugs and Repair or Replace them immediately and ensure all workers properly trained in the safe use of maintained Tools and equipment.

ATTENDANCE:-

SL/NO	NAME	DESIGNATION / TRADE	AGENCY / COMPANY	SIGNATURE
1.	Gouranga Halder	swild	Jay Shree	
2.	Bijoy Halder	A	A	
3.	Sambhu Halder	A	A	
4.	Sambhu Das	A	A	
5.	Prakash Halder	A	A	
6.	Prakash Halder	A	A	
7.	Prakash Halder	A	A	
8.	Prakash Halder	A	A	
9.				
10.				
11.				
12.				

NAME:- Rangit Kundra
DESIGNATION:- safety supervisor
SIGNATURE:-

Photographs with attendance sheet of Toolbox Talk at WS-25

Appendix 12: Good practices at project site



Safety induction training at site



Tool box training



Secure cylinders in an upright position



Barricading of the excavated area



Diversion



Safety arrangement for road pedestrians



PPE maintained by labour



First-aid Box at work site



Banner for Project information



Safety training



Electrical safety at site



Fire safety at site



Emergency assembly point at site



Welder protective shields maintained by labour

Appendix 13: Sample grievance redress form
(To be available also in Bengali, Hindi)

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.

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

FOR OFFICIAL USE ONLY

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


GRIVENCE REDRESS REGISTRAR
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 THE PROJECT: Sewerage & Drainage Network in Rania Box Catchment (Part of Ward 111.112 & 113) in Borough XI
 CONTRACT NO: KEIIP/NCB/TR-2/SD 10T/2028-19
 Month: FEBRUARY 2024
 Date: 29/02/2024

COMPLAINT NUMBER	DATE	COMPLAINT THROUGH (PHONE/LETTER)	NAME OF COMPLAINER	COMPLAINT DETAILS	ACTION TAKEN BY CONTRACTOR/ PIU/PMD/CESC	DATE-CASE RESOLVED (DAYS REQUIRED)	REMARKS-FURTHER ACTION IF ANY
01	02/02/2024	KEIIP	Panchantola Road	100 mm pipe line repaired	SIL	Within one day	Repaired
02	03/02/2024	KEIIP	Panchantola Road	150 mm pipe line repaired	SIL	Within two days	Repaired
03	07/02/2024	KEIIP	Porakhala Road	150 mm pipe line repaired	SIL	Within two days	Repaired
04	10/02/224	KEIIP	Panchantola Road	150 mm DI main pipe line repaired	SIL	Within two days	Repaired
05	16/02/2024	KEIIP	Porakhala Road	House connection repaired	SIL	Within two days	Repaired
06	24/02/2024	KEIIP	Panchantola Road	Main water line damaged	SIL	Within three days	Repaired



Prepared by:
Pradip Kalita Basu
SIL

Checked by:
Mr. Indranil Roy
Joint JM -SIL



Checked by:
Mr. Debasish Shankhar
Construction Supervisor - DSC

Grievances record of SD-11T