

# Site-Specific Environmental Management Plan

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Project number: 49107-006  
November 2019

**IND: West Bengal Drinking Water Sector Improvement Project – Design, Construction and Operation-Maintenance of Overhead Reservoirs Including Water Supply Distribution Network and Metering Works in Mejia and Gangajalghati blocks in Bankura including Rehabilitation of Existing Schemes (Zone 27- OHSR Mohana)**

**Package No: WBDWSIP/BK/04**

Prepared by Public Health Engineering Department, Government of West Bengal for the Asian Development Bank.

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## Site Specific Environmental Management Plan

### SITE SPECIFIC ENVIRONMENTAL MANAGEMENT PLAN


WBDWSIP BANKURA PKG-04

MEJHIA BLOCK

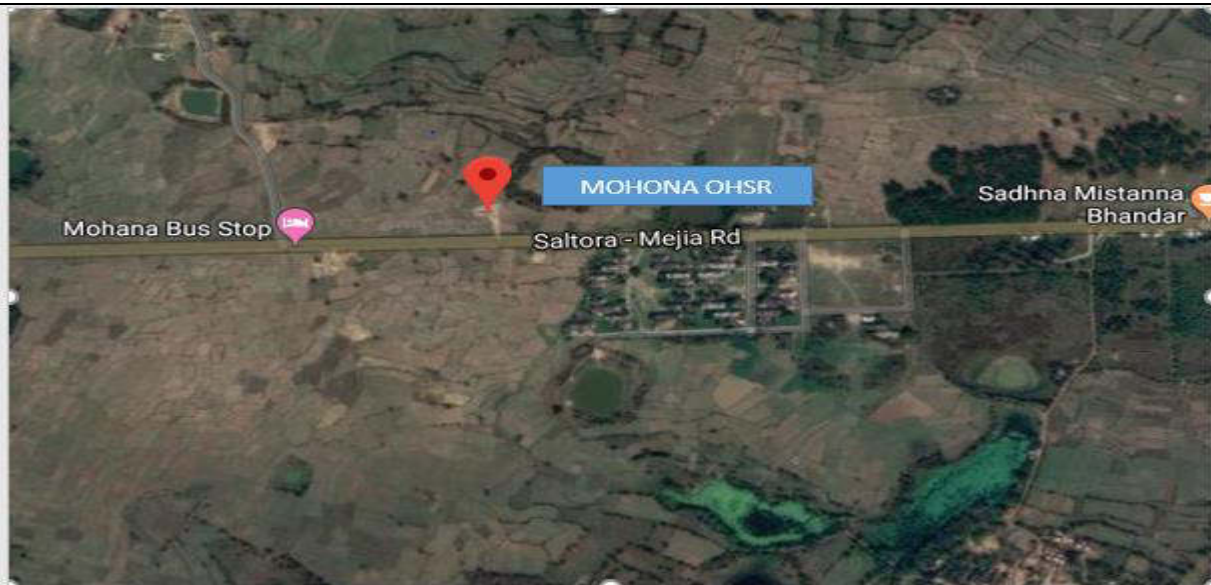
LOCATION- MOHONA OHSR (ZONE - 27)

REV	DATE	PREPARED BY	CHECKED BY	APPROVED BY	ARRPROVED BY PIU
1		  Project Manager Mejhia Distribution	  TEAM LEADER DSISC WBDWSIP - BANKURA Shah Technical Consultants Pvt. Ltd.	  Assistant Engineer-J PIU Bankura WBDWSIP, PHE Dis. Govt. of West Bengal	  Junior Engineer PIU Bankura WBDWSIP, PHE Dis. Govt. of West Bengal


West Bengal Drinking Water Sector Improvement Project (WBDWSIP)

 <b>L&amp;T Construction</b> Water & Effluent Treatment	Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes. (Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)	Doc. No. L&T/ SEMP /02 Last Revision No. 00 Last Revision Date : 00 Page 2 of 46 Original Issue Date :
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Package No	Package No :WBDWSIP/ BK/04 Zone 27- OHSR (Mohana) under PIU Bankura
Package title	Design, Construction and Operation-Maintenance of Overhead Reservoirs Including Water Supply Distribution Network and Metering Works in Mejia and Gangajalghati blocks in Bankura including Rehabilitation of Existing Schemes . SEMP is as per requirement of the Draft IEE covering package no. <b>DWW/NCB/BK/02B/2018-19</b>
Contractor	<b>Larsen &amp; Toubro Ltd.</b>
Date of Contract Award	27/05/2019
Date of works commencement for particular site	07/11/2019
Contract period	Construction: 3 Years ; O&M: 2 Years
SEMP Component	Construction of Overhead Reservoir- 600 KL
DEmoition Works	No demolition activity involved
Project Area	Mohana Village, Ardhadgram Gram Panchayet in Mejia block
Project Description	Individual household water supply schemes for the project Gram Panchayets
Indicative Budget for EMP Implementation for the entire package	INR 6725000/-
Project Components	As per project detailed design
Gram Panchayet: Ardhadgram	
Land Status	Private and Transferred
OHSR Capacity	600 KL
Location Map	




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 <b>L&amp;T Construction</b> <i>Water &amp; Effluent Treatment</i>	<b>Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes.</b> <b>(Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)</b>	<b>Doc. No. L&amp;T/ SEMP /02</b> <b>Last Revision No. 00</b> <b>Last Revision Date : 00</b> <b>Page 3 of 46</b> <b>Original Issue Date :</b>
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<b>Details of contractors on-site-personnel and workers</b>	Zone 27- OHSR (Mohana) Ardhadgram Gram Panchayet in Mejia block
<b>Project Manager</b>	Mr. Jayaganthan A; 9575177767
<b>Site Engineer</b>	Mr. Munkeshwar Gupta; 7679990511
<b>Site Supervisor</b>	Mr. Abu Hassan; 6294019739
<b>EHS Supervisor</b>	Mr. Sujan Goswami; Mob: 8637860268
<b>Archeological supervisor</b>	NA
<b>Skilled / semi-skilled workers</b>	10 skilled and 10 semi-skilled
<b>Unskilled workers</b>	15
<b>Women workers</b>	Nil
<b>Workers – local / migrant</b>	Local-20 / Migrant-15 (From other districts of West Bengal)
<b>Details of facilities</b>	
<b>Construction camps, (no's and locations)</b>	One labor accommodation at a rented apartment at Kastora Village (Papra More)

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**Table 1: Anticipated Impacts and Mitigation Measures – Pre-construction Stage**  
**Environmental Mitigation Plan**

Field	Anticipated Impact	Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of found
Utilities	Telephone lines, electric poles and wires, water lines within proposed project area	<ul style="list-style-type: none"> <li>Identify and include locations and operators of these utilities in the detailed design documents to prevent unnecessary disruption of services during construction phase; and</li> <li>Require construction contractors to prepare a contingency plan to include actions to be taken in case of unintentional interruption of services.</li> <li>Require contractors to prepare spoils (waste) management plan and traffic management plan.</li> </ul>	<ul style="list-style-type: none"> <li>There are no utilities in mention OHR site.</li> <li>Details SMP (<b>Attachment O-7</b>) has been attached below--</li> </ul>	Contractor, PIU	PIU and DSISC observation at site and document checking	Project cost
Construction work camps, stockpile areas, storage areas, and disposal areas.	Conflicts with local community; disruption to traffic flow and sensitive receptors.	<ul style="list-style-type: none"> <li>Prioritize areas within or nearest possible vacant space in the project location;</li> <li>If it is deemed necessary to locate elsewhere, consider sites that will not promote instability and result in destruction of property, vegetation, irrigation, and drinking water supply systems;</li> <li>Do not consider residential areas;</li> <li>Take extreme care in selecting sites to avoid direct disposal to water body which will inconvenience the community.</li> <li>For excess spoil disposal, ensure (a) site</li> </ul>	<ul style="list-style-type: none"> <li>Kastora Village has been selected for rented house where all the basic facilities like kitchen, drinking water, toilet, first aid box, light, fan etc. provided to workers.</li> <li>Storage area has been established away from water body.</li> <li>Spoil generated from construction</li> </ul>	Contractor, PIU	PIU and DSISC observation at site and document checking	Project cost


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Field	Anticipated Impact	Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of found
		shall be selected preferably from barren, infertile lands. In case agricultural land needs to be selected, written consent from landowners (not lessees) will be obtained; (b) debris disposal site shall be at least 200 m away from surface water bodies; (c) no residential areas shall be located within 50 m downwind side of the site; and (d) site is minimum 250 m away from sensitive locations like settlements, ponds/lakes or other water bodies.	activity has been used for labelling/ backfilling. <ul style="list-style-type: none"> <li>Disposal area has been selected at barren, infertile land nearest to the project zone.</li> <li>Employees are trained for storage and handling of materials which can potentially cause soil contamination and water contamination ;</li> <li>Solid waste managed according to the following preferential hierarchy: reuse, and disposal to designated areas; Kitchen wastes collected in a dustbin then it is disposed outside from area to designated disposal location.</li> </ul>			
Sources of Materials	Extraction of materials can disrupt natural land	<ul style="list-style-type: none"> <li>Obtain construction materials only from government approved quarries with prior</li> </ul>	<ul style="list-style-type: none"> <li>No involvement of any new borrow area</li> </ul>	Contractor, PIU	PIU and DSISC observation at site and	Project cost


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Field	Anticipated Impact	Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of found
	contours and vegetation resulting in accelerated erosion, disturbance in natural drainage patterns, ponding and water logging, and water pollution.	approval of PIU; • PIU to review, and ensure that proposed quarry sources have all necessary clearances/ permissions in place prior to approval • Contractor to submit to PIU on a monthly basis documentation on material obtained from each source (quarry/ borrow pit) • Avoid creation of new borrow areas, quarries etc., for the project; if unavoidable, contractor to obtain all clearances and permissions as required under law, including Environmental Clearance prior to approval by PIU	or quarry is anticipated. • Materials collected from- <b>Cement-</b> Ambuja, Nuvoco and Ultratech <b>Reinforcement-</b> Tata Steel, SAIL, RINL <b>Coarse Aggregates</b> - Pachami quarry. <b>Fine Aggregates</b> - River Damodar. Mention source are government approved.		document checking	
Consents, permits, clearances, No Objection Certificates (NOCs), etc.	Failure to obtain necessary consents, permits, NOCs, etc. can result to design revisions and/or stoppage of works	• Obtain all necessary consents, permits, clearance, NOCs, etc. prior to award of civil works. • Ensure that all necessary approvals for construction to be obtained by contractor are in place before start of construction • Acknowledge in writing and provide report on compliance all obtained consents, permits, clearance, NOCs, etc. • Include in detailed design drawings and documents all conditions and provisions if necessary	• Already done land requisition, electric connection, water source (bore well) etc. • Tree felling requirement for this site is not anticipated. • Made provision for detailed design drawing and documented all conditions. • DG sets of capacity less	Contractor, PIU	PIU and DSISC observation at site and document checking	Project cost

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Field	Anticipated Impact	Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of found
			than 5 kVA only being used for pipeline works. • Please refer <b>Attachment O-3</b> for list of relevant permits and clearances.			
Asbestos Cement Pipes	Health risk due to exposure to asbestos materials	<ul style="list-style-type: none"> <li>Obtain details on location of underground Asbestos Cement pipes</li> <li>Locate the new piper carefully to avoid encountering AC pipes</li> <li>Leave the Asbestos Cement pipes undisturbed in the ground.</li> </ul>	• Mention OHR site free from any underground asbestos cement pipes.	Contractor, PIU	PIU and DSISC observation at site and document checking	Project cost

**Table 2: Anticipated Impacts and Mitigation Measures – Construction Stage Environmental Mitigation Plan**

Field	Anticipated Impact	Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of found
Environmental Management Plan (EMP) Implementation Training	Irreversible impact to the environment, workers, and community	<ul style="list-style-type: none"> <li>Project manager and all key workers will be required to undergo training on EMP implementation including spoils/waste management, Standard operating procedures (SOP) for construction works; occupational health and safety (OHS), core labor laws, applicable environmental laws, etc.</li> </ul>	<ul style="list-style-type: none"> <li>EMP implementation training session has been planned for all workers and community.</li> </ul>	Contractor	PIU and DSISC observation at site and document checking	Project cost

## West Bengal Drinking Water Sector Improvement Project (WBDWSIP)



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Field	Anticipated Impact	Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of found
Air Quality	Emissions from construction vehicles, equipment, and machinery used for installation of pipelines resulting to dusts and increase in concentration of vehicle-related pollutants such as carbon monoxide, sulfur oxides, particulate matter, nitrous oxides, and hydrocarbons.	<ul style="list-style-type: none"> <li>Comply with the air pollution / dust control measures for construction activities stipulated by the "Direction of West Bengal Department of Environment under the Air Act, 1981 Direction No. EN/3170/T-IV-7 /001/2009 dated: 10 December 2009"</li> <li>Damp down the soil and any stockpiled material on site by water sprinkling;</li> <li>Use tarpaulins to cover the loose material (soil, sand, aggregate etc.,) when transported by trucks;</li> <li>Provide a dust screen/high compound wall around the construction sites (OHRs)</li> <li>Clean wheels and undercarriage of haul trucks prior to leaving construction site/quarry</li> <li>Control dust generation while unloading the loose material (particularly aggregate, soil) at the site by sprinkling water and unloading inside the barricaded area</li> <li>Stabilize surface soils where loaders, support equipment and vehicles will</li> </ul>	<ul style="list-style-type: none"> <li>Only vehicles having valid PUC certificate have been engaged in the project.</li> <li>Sprinkling and dust screen arrangement have been made and will be used when required.</li> <li>Workers has been instructed to always use dust mask while working in the trench.</li> <li>Site is access controlled to prevent trespassing.</li> <li>Excavated earth piles will be maintained in such a way to minimize dust rising.</li> <li>Air quality monitoring for base line data completed. Monitoring has been conducted for 9 locations (Durlabhpur-Benagari, Choto Nabagram, Mohona, Basudevapur, Barasal Shrirampur, Ranipur, Mochrakend, Deuli, Bankdaha, Gangajalghati) to fulfilment the criteria.</li> </ul>	Contractor	PIU and DSISC observation at site and document checking	Project cost

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		operate by using water and maintain surface soils in a stabilized condition <ul style="list-style-type: none"> <li>• Apply water prior to leveling or any other earth moving activity to keep the soil moist throughout the process</li> <li>• Control access to work area, prevent unnecessary movement of vehicle, public trespassing into work areas; limiting soil disturbance will minimize dust generation</li> <li>• Ensure that all the construction equipment and machineries are fitted with pollution control devices, which are operating correctly, and have a valid pollution under control (PUC) certificate.</li> </ul>				
Surface water quality	Mobilization of settled silt materials, and chemical contamination from fuels and lubricants during construction can contaminate nearby surface water quality.	<ul style="list-style-type: none"> <li>• All earthworks be conducted during the dry season to prevent the problem of soil run-off during monsoon season;</li> <li>• Avoid stockpiling of earth fill especially during the monsoon season unless covered by tarpaulins or plastic sheets;</li> <li>• Prioritize re-use of excess spoils and materials in the</li> </ul>	<ul style="list-style-type: none"> <li>• Non availability of water body in OHR site.</li> <li>• Surface water quality monitoring for baseline data has been conducted in 10 locations (Durlabhpur-Benagari, Choto Nabagram, Mohona, Basudevpur, Barasal Shrirampur,</li> </ul>	Contractor	PIU and DSISC observation at site and document checking	Project cost

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	Ponding of water in the pits / foundation excavations	<p>construction works. If spoils will be disposed, only designated disposal areas shall be used;</p> <ul style="list-style-type: none"> <li>• Install temporary silt traps or sedimentation basins along the drainage leading to the water bodies;</li> <li>• Place storage areas for fuels and lubricants away from any drainage leading to water bodies;</li> <li>• Store fuel, construction chemicals etc., on an impervious floor, also avoid spillage by careful handling</li> <li>• Dispose any wastes generated by construction activities in designated sites; and</li> <li>• Conduct surface quality inspection according to the Environmental Management Plan (EMP).</li> <li>• Create a temporary drainage channel around the work area to arrest the entry of runoff from upper areas into the work area(ix) Pump out the water collected in the pits / excavations to a temporary sedimentation pond; dispose of only</li> </ul>	<p>Ranipur, Mochrakend, Deuli, Bankdaha, Gangajalghati) as per environmental monitoring plan recommended in the IEE.</p> <ul style="list-style-type: none"> <li>• A temporary drainage channel has been created to work area to arrest the entry of run-off from upper areas into the work area.</li> <li>• Locations for fuels and lubricants store is away from drainage path and spill kits have been obtained.</li> <li>• All excavated soils are expected to be utilized on-site only. No excess spoil anticipated.</li> </ul>			

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		clarified water into drainage channels/streams after sedimentation in the temporary ponds <ul style="list-style-type: none"> <li>Consider safety aspects related to pit collapse due to accumulation of water</li> </ul>				
Noise Levels	Increase in noise level due to earth-moving and excavation equipment, and the transportation of equipment, materials, and people	<ul style="list-style-type: none"> <li>Plan activities in consultation with PIU so that activities with the greatest potential to generate noise are conducted during periods of the day which will result in least disturbance;</li> <li>Horns should not be used unless it is necessary to warn other road users or animals of the vehicle's approach;</li> <li>Minimize noise from construction equipment by using vehicle silencers, fitting jackhammers with noise-reducing mufflers, and use portable street barriers to minimize sound impact to surrounding sensitive receptor; and</li> <li>Identify any buildings at risk from vibration damage and avoiding any use of pneumatic drills or heavy vehicles in the vicinity</li> </ul>	<ul style="list-style-type: none"> <li>Noise quality monitoring for baseline data partially completed and has been conducted in 19 locations (Durlabhpur, Choto Nabagram, Mohona, Chusalk, Barasal Shrirampur, Ranipur, Mochrakend, Deuli, Bankdaha, Gangajalghati Lakhyara, Subaira, Lachmanpur, Mejhia, Benabad, Purbator, Banashuriya, Sarangapur, Kenduadihi, Rangnathpur) as per environmental monitoring plan recommended in the IEE.</li> <li>Consultation made with local communities in advance of the work to identify and avoid working at sensitive times, such as religious</li> </ul>	Contractor	PIU and DSISC observation at site and document checking	Project cost

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		<ul style="list-style-type: none"> <li>Horns should not be used unless it is necessary to warn other road users or animals of the vehicle's approach;</li> <li>Consult local communities in advance of the work to identify and address key issues, and avoid working at sensitive times, such as religious and cultural festivals.</li> </ul>	and cultural festivals. <ul style="list-style-type: none"> <li>No building found at risk from vibration damage.</li> </ul>			
Landscaping and aesthetics – waste generation	Impacts due to excess excavated earth, excess construction materials, and solid waste such as removed concrete, wood, packaging materials, empty containers, spoils, oils, lubricants, and other similar items.	<ul style="list-style-type: none"> <li>Prepare and implement a Construction Waste Management Plan</li> <li>As far as possible utilize the debris and excess soil in construction purpose, for example for raising the ground level or construction of access roads etc.,</li> <li>Stockpiles, lubricants, fuels, and other materials should be located away from steep slopes and water bodies;</li> <li>Avoid stockpiling any excess spoils at the site for long time. Excess excavated soils should be disposed of to approved designated areas immediately;</li> <li>If disposal is required, the site shall be selected</li> </ul>	<ul style="list-style-type: none"> <li>Excavated earth is utilized for backfilling purpose.</li> <li>Spoil management plan has been developed. <b>(Attachment-O-7)</b></li> </ul>	Contractor	PIU and DSISC observation at site and document checking	Project cost

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		<p>preferably from barren, infertile lands; site should be located away from residential areas, forests, water bodies and any other sensitive land uses</p> <ul style="list-style-type: none"> <li>Domestic solid wastes should be properly segregated in biodegradable and non-biodegradable for collection and disposal to designated solid waste disposal site; create a compost pit at workers' camp sites for disposal of biodegradable waste; non-biodegradable / recyclable material shall be collected separately and sold in the local recycling material market</li> <li>Residual and hazardous wastes such as oils, fuels, and lubricants shall be disposed of in disposal sites approved by local authorities/West Bengal Pollution Control Board (WBPCB);</li> <li>Prohibit burning of construction and/or domestic waste;</li> <li>Ensure that wastes are not haphazardly dumped thrown within and around</li> </ul>				

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		<p>the project site and adjacent areas; provide proper collection bins, and create awareness to use the dust bins.</p> <ul style="list-style-type: none"> <li>Conduct site clearance and restoration to original condition after the completion of construction work; PIU to ensure that site is properly restored prior to issuing of construction completion certificate</li> </ul>				
Ecological Resources – Terrestrial	Loss of vegetation and tree cover	<ul style="list-style-type: none"> <li>Minimize removal of vegetation and disallow cutting of trees, by adopting best site layout and pipeline alignments</li> <li>If tree-removal will be required, obtain tree-cutting permit and</li> <li>Plant 5 native trees for every one that is removed.</li> </ul>	<ul style="list-style-type: none"> <li>Tree removal is not required for OHSR site.</li> <li>Demarcation of ROW is pending that's why design of pipeline laying is under process.</li> </ul>	Contractor, PIU	DSISC observation at site and document checking	Project cost
Accessibility	Traffic problems and conflicts near project locations and haul road	<ul style="list-style-type: none"> <li>Plan transportation routes so that heavy vehicles do not use narrow local roads, except in the immediate vicinity of delivery sites</li> <li>Schedule transport and hauling activities during non-peak hours;</li> <li>Locate entry and exit points in areas where there is low potential for traffic</li> </ul>	<ul style="list-style-type: none"> <li>Transportation and hauling activities have been planned during non-peak hours.</li> <li>Project details has been displayed on project site.</li> <li>Demarcation/ collection of detail of ROW is under process.</li> </ul>	Contractor	PIU and DSISC observation at site and document checking	Project cost

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		congestion; <ul style="list-style-type: none"> <li>Drive vehicles in a considerate manner</li> <li>Notify affected public by public information notices, providing sign boards informing nature and duration of construction works and contact numbers for concerns/complaints</li> </ul>				
Occupational Health and Safety	Occupational hazards which can arise during work	<ul style="list-style-type: none"> <li>Comply with all national, state and local core labor laws</li> <li>Develop and implement site-specific occupational health and safety (OHS) Plan which will include measures such as: (a) excluding public from the site; (b) ensuring all workers are provided with and use personal protective equipment like helmet, gumboot, safety belt, gloves, nose mask and ear plugs; (c) OHS Training for all site personnel; (d) documented procedures to be followed for all site activities; and (e) documentation of work-related accidents;</li> <li>Ensure that qualified first-aid can be provided at all times. Equipped first-aid</li> </ul>	<ul style="list-style-type: none"> <li>Based on L&amp;T's OHS Plan, a site specific OHS plan has been developed.</li> <li>Site OHS plan is attached at <b>Attachment –O-4.</b></li> <li>All workers have been provided with and made to use Personal Protective Equipment like helmet, gumboot, reflective jacket, gloves, nose mask and ear plugs;</li> <li>H&amp;S Training for all site personnel has been arranged and it will be continued;</li> <li>H&amp;S orientation training provided to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuries to fellow workers</li> <li>Documented procedures are</li> </ul>	Contractor	PIU and DSISC observation at site and document checking	Project cost

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		<p>stations shall be easily accessible throughout the site;</p> <ul style="list-style-type: none"> <li>• Provide medical insurance coverage for workers;</li> <li>• Secure all installations from unauthorized intrusion and accident risks;</li> <li>• Provide supplies of potable drinking water;</li> <li>• Provide clean eating areas where workers are not exposed to hazardous or noxious substances;</li> <li>• Provide health and safety orientation training to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuring to fellow workers;</li> <li>• Provide visitor orientation if visitors to the site can gain access to areas where hazardous conditions or substances may be present. Ensure also that visitor/s do not enter hazard areas unescorted;</li> <li>• Ensure the visibility of workers through their use of high visibility vests when working in or walking</li> </ul>	<p>followed for all site activities;</p> <ul style="list-style-type: none"> <li>• Work-related accidents will be recorded;</li> <li>• Bottled water provided at site.</li> <li>• First Aid box provided at working sites</li> <li>• Clean eating areas provided to workers;</li> <li>• Moving equipment maintained with audible back-up alarms</li> </ul>			

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		through heavy equipment operating areas; <ul style="list-style-type: none"> <li>Ensure moving equipment is outfitted with audible back-up alarms;</li> <li>Mark and provide sign boards for hazardous areas such as energized electrical devices and lines, service rooms housing high voltage equipment, and areas for storage and disposal. Signage shall be in accordance with international standards and be well known to, and easily understood by workers, visitors, and the general public as appropriate;</li> </ul>				
Submission of EMP implementation report	Unsatisfactory compliance to EMP	<ul style="list-style-type: none"> <li>Appointment of (I) Environment, Health and Safety (EHS) Supervisor to ensure EMP implementation</li> <li>Timely submission of monitoring reports including pictures.</li> </ul>	<ul style="list-style-type: none"> <li>EHS supervisor has been appointed.</li> <li>For timely submission of monitoring report has been instructed to contractor.</li> </ul>	Contractor	PIU and DSISC observation at site and document checking	Project cost

	<b>Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes.</b> <b>(Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)</b>	<b>Doc. No. L&amp;T/ SEMP /02</b> <b>Last Revision No. 00</b> <b>Last Revision Date : 00</b> <b>Page 18 of 46</b> <b>Original Issue Date :</b>
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**Table 3: Construction Phase Environmental Monitoring Plan for Entire Package**

Monitoring Field	Monitoring Location	Monitoring Parameters	Frequency	Locations*	Cost as per budget (in Rs.)
Ambient air quality	10 locations (to be selected during implementation to represent the overall project area)	PM10, PM2.5 NO2, SO2, CO	Once before start of construction Quarterly (yearly 3-times) during construction (3-year period considered)	Durlabhpur (Benagari), Choto Nabagram, Mohona, Chusalk (Basudevpur), Barasal Shrirampur, Ranipur, Mochrakend, Deuli, Bankdaha, Gangajalghati,	Rs.500,000
Ambient noise	20 locations (same as air quality monitoring)	Day time and night time noise levels (24 hours)	Once before start of construction Quarterly (yearly 3 -times) during construction (3-year period considered)	Durlabhpur (Benagari), Choto Nabagram, Mohona, Chusalk (Basudevpur), Barasal Shrirampur, Ranipur, Mochrakend, Deuli, Bankdaha, Gangajalghati, Lakhyara, Subaira, Lachmanpur, Mejhia, Benabad, Purbator, Banashuriya, Sarangapur, Kenduadihi (Kapistha), Rangnathpur.	Rs.300,000
Surface water quality	10 locations (to be selected during implementation)	pH, Oil and grease, Cl, F, NO3, TC, FC, Hardness, Turbidity BOD, COD, DO, Total Alkalinity	Once before start of construction Quarterly (yearly 3-times) during construction (3-year period considered)	Durlabhpur (Benagari), Choto Nabagram, Mohona, Chusalk (Basudevpur), Barasal Shrirampur, Ranipur, Mochrakend, Deuli, Bankdaha, Gangajalghati,	Rs.500,000

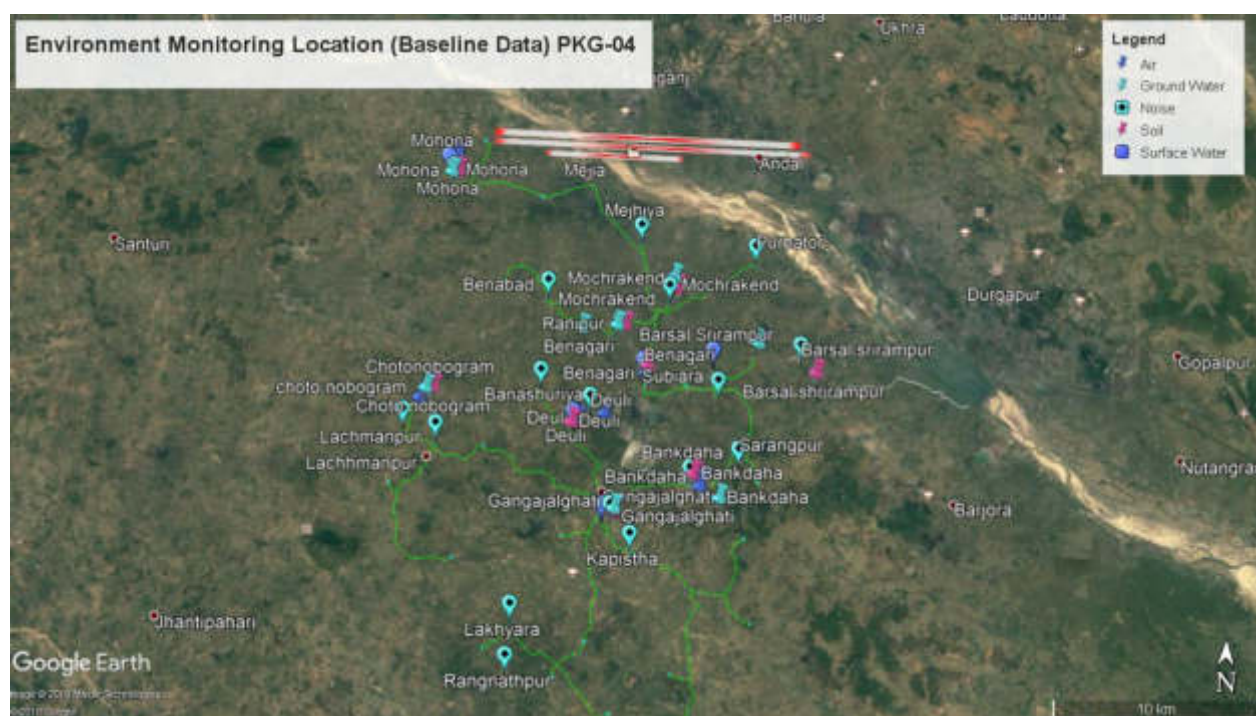
**West Bengal Drinking Water Sector Improvement Project (WBDWSIP)**




 <b>L&amp;T Construction</b> Water & Effluent Treatment	Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes. (Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)	Doc. No. L&T/ SEMP /02 Last Revision No. 00 Last Revision Date : 00 Page 19 of 46 Original Issue Date :
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Monitoring Field	Monitoring Location	Monitoring Parameters	Frequency	Locations*	Cost as per budget (in Rs.)
Soil quality	10 locations (including, construction camps, workers camps)	pH, Elect. Conductivity (at 250C), Moisture (at 1050C), Texture (silt, clay, sand), Calcium (as CaO), Magnesium (as Mg), Permeability, Nitrogen (as N), Sodium (as Na), Phosphate (as PO4), Potassium (as K), Organic Matter, oil and grease	Once before start of construction Quarterly (yearly 3-times) during construction (3-year period considered)	Durlabhpur (Benagari), Choto Nabagram, Mohona, Chusalk (Basudevpur), Barasal Shrirampur, Ranipur, Mochrakend, Deuli, Bankdaha, Gangajalghati	Rs.500,000
Ground Water Quality	10 locations (including workers camp site & Construction camp/storage yards)	As per IS10,500: 2012	Once before start of construction Quarterly (yearly 3-times) during construction (3-year period considered)	Durlabhpur (Benagari), Choto Nabagram, Mohona, Chusalk (Basudevpur), Barasal Shrirampur, Ranipur, Mochrakend, Deuli, Bankdaha, Gangajalghati	Rs.600,000

#### Monitoring Locations on Google Earth





 <b>L&amp;T Construction</b> <i>Water &amp; Effluent Treatment</i>	<b>Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes.</b> <b>(Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)</b>	<b>Doc. No. L&amp;T/ SEMP /02</b> <b>Last Revision No. 00</b> <b>Last Revision Date : 00</b> <b>Page 20 of 46</b> <b>Original Issue Date :</b>
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### **List of Attachments**

Attachment O-1: Details of construction Work sites  
Attachment O-2: Details of construction camp site  
Attachment O-3: List of clearances & statutory requirements  
Attachment O-4: Contractor's EHS Policy & Organization  
Attachment O-5: Utility shifting/relocation  
Attachment O-6: Details of Construction Materials  
Attachment O-7: Spoil Management Plan  
Attachment O-8: Procedure for on-site Grievance Redressal Mechanism  
Attachment O9: Procedure for information disclosure prior to start of works

### **List of Appendices**

Appendix O.A: Site Layout Plan  
Appendix O.B: Labour License  
Appendix O.C: Workman Compensation  
Appendix O.D- Risk Policy  
Appendix- O.E- Tie up Letter with local Hospital  
Appendix O.F.: PUC Certificates  
Appendix O.G: Contractor's EHS Policy Statement  
Appendix O.H- Attendance sheet and photographs of Tool Box Talk  
Appendix O.I: Sample Grievance Registration Form

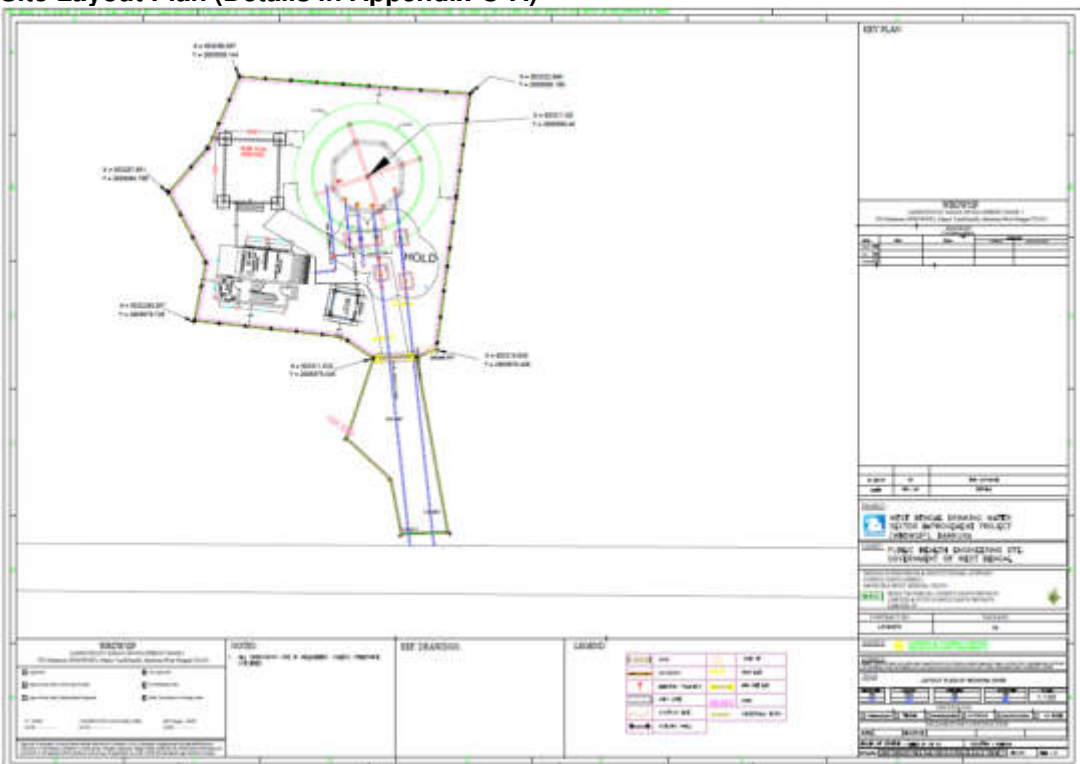
Enclosure 1 : Project EHS Plan-Mejia-Gangajalghati Distribution\_ Package BK 04

 <b>L&amp;T Construction</b> <i>Water &amp; Effluent Treatment</i>	<b>Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes.</b> <b>(Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)</b>	<b>Doc. No. L&amp;T/ SEMP /02</b> <b>Last Revision No. 00</b> <b>Last Revision Date : 00</b> <b>Page 21 of 46</b> <b>Original Issue Date :</b>
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## West Bengal Drinking Water Sector Improvement Project (WBDWSIP)





## Site Specific Environmental Management Plan

### Attachment O-1: Details of construction Work sites


Location- Zone 27	
<b>Mohona OHSR Site</b>	
A	<b>Material storage</b> <ul style="list-style-type: none"> <li>• Cement</li> <li>• Steel</li> <li>• Fine Aggregate</li> <li>• Coarse Aggregate</li> <li>• Shuttering Material</li> <li>• Shuttering Oil</li> </ul>
B	<b>Plant &amp; Machinery</b> <ul style="list-style-type: none"> <li>• Concrete Mixer – 1 No</li> <li>• Needle Vibrator – 2 Nos</li> <li>• Steel Cutter – 2Nos</li> </ul>
C	<b>Site office – No</b>
D	<b>Laboratory – No</b>
E	<b>Security cabin – No</b>
F	<b>Labor welfare facilities at Site</b> <ul style="list-style-type: none"> <li>• Labor rest area</li> <li>• Bio-Toilet</li> <li>• Drinking water (Bore Well)</li> <li>• First Aid Box.</li> </ul>
G	<b>Site Layout Plan (Details in Appendix-O-A)</b> 

## West Bengal Drinking Water Sector Improvement Project (WBDWSIP)

 <b>L&amp;T Construction</b> Water & Effluent Treatment	Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes. (Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)	Doc. No. L&T/ SEMP /02 Last Revision No. 00 Last Revision Date : 00 Page 23 of 46 Original Issue Date :
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H	Site photographs		
Original site photographs			
	OHR before Construction		
Project facilities at Site			
	Panel Room at site	First Aid Box at site	Toilet on OHR site

## West Bengal Drinking Water Sector Improvement Project (WBDWSIP)


 <b>L&amp;T Construction</b> Water & Effluent Treatment	Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes. (Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)	Doc. No. L&T/ SEMP /02 Last Revision No. 00 Last Revision Date : 00 Page 24 of 46 Original Issue Date :
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#### Attachment O-2: Details of construction camp sites

Labour Accommodation for OHSR site workers at Kastora village	
A	<ul style="list-style-type: none"> <li>Accommodation for 15 nos. construction workers</li> <li>No women / families in the camp</li> </ul> <b>Facilities provided at camp site</b> <ul style="list-style-type: none"> <li>Type of living accommodation – <b>Rented house</b></li> <li>Separate cooking area</li> <li>Cooking gas</li> <li>Drinking water</li> <li>Bath rooms</li> <li>Toilets</li> <li>Drainage system</li> <li>First aid box</li> </ul>
B	<b>Camp photographs</b>
Original site Photographs	Not applicable as camp is not located on OHSR site.

Photos of camp and facilities provided		
	Rented Labour House	Arrangement of kitchen
		
	Toilet facility	Sleeping area with electrical lights


### West Bengal Drinking Water Sector Improvement Project (WBDWSIP)

 <b>L&amp;T Construction</b> Water & Effluent Treatment	Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes. (Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)	Doc. No. L&T/ SEMP /02 Last Revision No. 00 Last Revision Date : 00 Page 25 of 46 Original Issue Date :
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### Attachment O-3: List of clearances & statutory requirements


Sl. No.	Project related	Status
<b>A</b>	<b>Construction/work related</b>	
1	Possession of land	Available
2	Notice to Proceed from PIU	Available
<b>B</b>	<b>Labour Safety / Welfare Related</b>	
1	Labour license	Obtained ( <b>Appendix-O.B</b> )
2	Workmen Compensation	Applied ( <b>Appendix-O.C</b> )
3	Risk Policy	Obtained ( <b>Appendix-O.D</b> )
<b>C</b>	<b>Safety / liability safety related</b>	
1	Medical Insurance	Tie-up with local hospital made ( <b>Appendix-O.E</b> )
<b>D</b>	<b>Others</b>	
1	Fitness certificate for vehicles, equipment used in construction	Obtained
2	Pollution under control (PUC) certificates for vehicles and equipment	Available ( <b>Appendix-O.F</b> )
3	Driving licenses for drivers	Obtained
4	Insurance for vehicles / equipment, as required	Obtained



 <b>L&amp;T Construction</b> Water & Effluent Treatment	Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes. (Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)	Doc. No. L&T/ SEMP /02 Last Revision No. 00 Last Revision Date : 00 Page 26 of 46 Original Issue Date :
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#### Attachment O-4: Contractor's EHS Policy & Organization

<b>1</b>	<b>Contractor agency has a OHS policy</b>	<b>Yes/ No</b>
A	If yes, provide policy details  1. Policy statement:  2. EHS organization & responsibilities:	Yes ( <b>Appendix-O.G</b> )  Yes
A	List safety risks anticipated in the project  Area works (OHSR) • Trips and falls • Head injury from falling objects • Height Work • Excavation side wall collapse • Accidents from open excavations	-
C	List personal protection equipment provided to workers • Boots- 20 Nos. • Safety Shoes- 15 Nos. • Gloves-35 nos. • Helmet-35 nos • Safety jacket- 35 nos. • Goggles- 20 nos.	Yes
D	Preventive Measures	
	• Orientation of all workers on OSH	Conducted Tool Box Talk ( <b>Appendix- O.H</b> )
	• Work permit system	Yes – for work at height
	• Toolbox/safety meetings (how often will this be conducted, what are the minimum topics)	Twice Weekly on work at height, firefighting, first-aid, housekeeping, etc.
	Safety signage	Displayed at site
	Barricade (more than 1 m deep hard barricading requires)	Provided
<b>2</b>	<b>Contractor emergency procedure</b>	
A	• In case of accident, first aid treatment to injured labour/person shall be provided. • In case hospitalization is required, concerned site in-charge will immediately take necessary action for hospitalization and he will inform to our Project Manager. • Details of accident shall be reported in accident register and the same shall be informed to client also.	
B	<b>Contact information, staff and responsibilities for emergency situations</b>	
	<b>Designation</b>	<b>Staff name &amp; contact</b>
	Site Engineer	Mr. Munkeshwar Gupta Mob: 7679990511
		<b>Emergency responsibility</b>
		Site Engineer shall be responsible for arranging of first aid treatment and other necessary action required in case of emergency. He will also be responsible for informing to EHS Supervisor.

 <b>L&amp;T Construction</b> Water & Effluent Treatment	Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes. (Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)	Doc. No. L&T/ SEMP /02 Last Revision No. 00 Last Revision Date : 00 Page 27 of 46 Original Issue Date :
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EHS Supervisor	Mr. Sujan Goswami Mob: 7837175749	EHS Supervisor should assess the emergency situation and accordingly instruct the Site Engineer of appropriate actions. Depending on the gravity of the situation, he should also inform Project Manager Representative.
Project Manager Representative	Mr. Jayaganthan A Mob: 9575177767	Project Manager Representative shall be responsible for taking all necessary action and decisions.
C	<b>Reporting procedure in case of work accidents</b> <ul style="list-style-type: none"> <li>Details of accidents shall be recorded in accident register.</li> <li>Copy of accident register shall be submitted to client at the end of every month.</li> <li>In case of any major accidents client shall be informed immediately.</li> </ul>	Yes
D	Mandatory Reporting to Authorities	Yes
E	Prohibited Acts and Penalties for Violations	Yes

#### Attachment O-5: Utility shifting/relocation

Sl. No.	List work sites that require utility shifting, relocation, temporary shut off	Remarks
1	Area work sites (OHSR)	Not Required

#### Attachment O-6: Details of Construction Materials

Sl. No	Material	Approximate quantity (MT) required for project	Source	Indicate if source has all necessary government clearances
1	Steel	38.9	Approved supplier	-
2	Cement	154.724	Approved supplier	-
3	Sand	249.2 (Cum)	From approved quarries at Damodar River.	Yes
4	Aggregate	329.3(Cum)	From approved quarries at Panchami.	Yes

## West Bengal Drinking Water Sector Improvement Project (WBDWSIP)





## Site Specific Environmental Management Plan

### SPOIL MANAGEMENT PLAN(SMP)

WBDWSIP BANKURA PKG-04

MEJHIA BLOCKS

LOCATION- MOHONA (OHSR) (ZONE-27)


REV	DATE	PREPARED BY SO/PM	CHECKED BY	APPROVED BY DSISC	ARRPROVED BY PIU
0					

Project Manager  
Mejhia Distribution

TEAM LEADER DSISC  
WBDWSIP, BANKURA  
Shah Technical Consultants Pvt. Ltd.

Junior Engineer  
PIU Bankura WBDWSIP, PHE Div.  
Govt. of West Bengal

Assistant Engineer-I  
PIU Bankura WBDWSIP, PHE Div.  
Govt. of West Bengal

 <b>L&amp;T Construction</b> <i>Water &amp; Effluent Treatment</i>	<b>Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes.</b> <b>(Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)</b>	<b>Doc. No. L&amp;T/ SEMP /02</b> <b>Last Revision No. 00</b> <b>Last Revision Date : 00</b> <b>Page 29 of 46</b> <b>Original Issue Date :</b>
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#### 1. INTRODUCTION OF SMP:

SMP is to describe how the project will manage the spoil generated and reuse related to design and construction works. This is an integral part of EMP. The objective of SMP is to reuse of spoil from works.

#### 2. SCOPE:

This Spoil Management Plan developed for **OHSR site in Zone 27**. We do not anticipate any excess Spoil for disposal as all excavated material will be reuse at site only.

#### 3. LEGAL AND OTHER REQUIREMENTS:

In this project, there is no legal litigation at site for land and working area or site. Disposal of spoil will confirming the Environmental Protection Rules and Regulations of Govt. of India and the State Govt.

#### 4. ROLES AND RESPONSIBILITY:

##### SITE ENGINEER:

- Will strictly work as per drawing.
- Will stay at site during activity is going on.
- Will see excess earth is kept at a particular place after completion of backfilling.
- Will ensure quality of the work by discussing daily about the type of activity on that day with the workmen.
- Will check site drain outlets are not blocked due to excavated earth on the drain.

##### SAFETY PERSONNEL:

- Will constant Job specific Tool Box Talk with Supervisor and Workmen.
- Will check excavated earth kept away from top.
- Will check if any underground pipeline is there or live electric cable there water should be sprayed to avoid dust hazard from excavation.
- Necessary Safety signage, Cones & FRP Barricading Board to be used.
- Vehicles reverse horn etc. to be checked will ensure zero tolerance in safety.

##### WORKER:

- They will start activity only after Tool Box Talk done.
- They will wear job specific safety items before start of work.
- During working inside the excavated trench, they should use ladder for easy access.
- They should barricade the area of activity with Safety barricading tape.
- Worker should be skilled to carry out the work.


It is the responsibility of the Engineers and all department head to implement this procedure and ensure that delegated staff and worker under their supervision carry it out in this project. Major roles and responsibilities are mentioned below:

- Excavated earth should be utilized like refilling at site only.
- Traffic movement should not be obstructed by dumping soil during the work.
- No low land, pond, ditch etc. will be filled up by extra soil outside the work place.
- Ensuring no accident occurs during rainy season by excavated earth during or finished the work.
- All the drains, outlet should be free from excavated earth.

#### 5. IDENTIFICATION AND ASSESSMENT OF SPOIL ASPECTS AND IMPACTS:

In this project, places will be identified jointly along with design engineer for utilisation. Main places where the excavated earth can be utilized are the trench of pipes and backfilling location.

## West Bengal Drinking Water Sector Improvement Project (WBDWSIP)

 <b>L&amp;T Construction</b> <i>Water &amp; Effluent Treatment</i>	<b>Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes.</b> <b>(Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)</b>	<b>Doc. No. L&amp;T/ SEMP /02</b> <b>Last Revision No. 00</b> <b>Last Revision Date : 00</b> <b>Page 30 of 46</b> <b>Original Issue Date :</b>
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6. SPOIL VOLUMES AND CHARACTERISTICS:

In this zone, Generation of excavated earth will be **approx. 621 cum**. There is no excess earth in this project as the same earth is to be used to fill the low land area.

7. SPOIL REUSES OPPORTUNITIES, IDENTIFICATION AND ASSESMENT:

In this project, there is no excess quality of excavated earth; total excavated earth should be reuse as per plan.

8. ON SITE SPOIL MANAGMENT APPROACH:

In this project, no need of the approach as there is no extra soils for disposal.

9. SPOIL TRANSPORTATION METHODOLOGY:


In this project, no need for spoil transport as there is no extra soils for disposal.

10. MONITORING, REPORTING, REVIEW AND IMPROVEMENTS:

Monitoring, Reporting and all necessary improvements will be done as per requirements.

**SPOIL DETAILS**

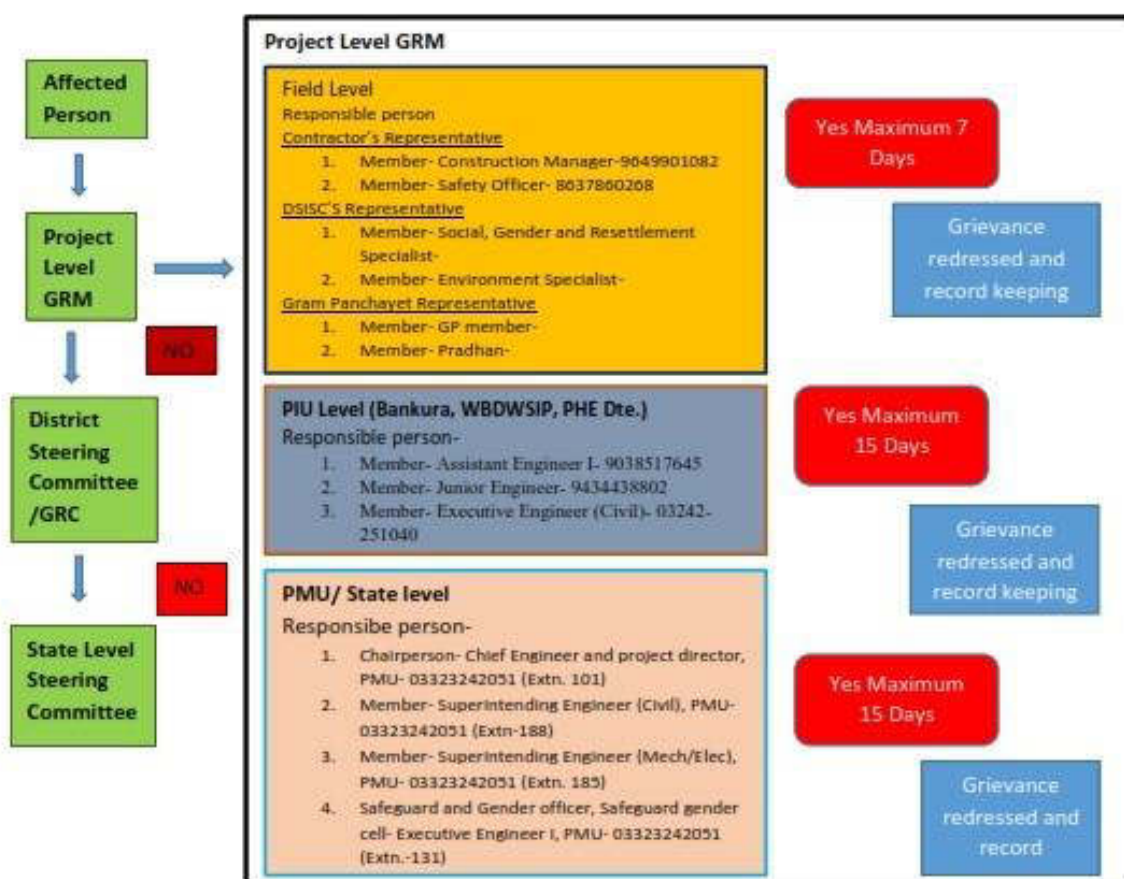
Sl. No.	Zone	Name of Structure	Excavation Total Quantity (C.U.M)	Back Filling Total Quantity (C.U.M)	Reuse Excess Quantity (C.U.M)
1.	27	Boundary wall	621	420.21	200.79

	<b>Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes.</b> <b>(Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)</b>	<b>Doc. No. L&amp;T/ SEMP /02</b> <b>Last Revision No. 00</b> <b>Last Revision Date : 00</b> <b>Page 31 of 46</b> <b>Original Issue Date :</b>
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### Attachment O-8: Procedure for on-site Grievance Redressal Mechanism


A common Grievance Redressal Mechanism (GRM) is in place to redress social, environmental or any other project and/or subproject related grievances. The GRM presented below has been developed in consultation with stakeholders. Public awareness campaign has been conducted to ensure that awareness on the project and its grievance redress procedures is generated. The campaign has ensured that the poor, vulnerable and others are made aware of grievance redress procedures and entitlements per project entitlement matrix, and PMU and PIU will ensure that their grievances are addressed in time.

### Grievance Redressal Mechanism (GRM)



All grievances are recorded in site grievance register and resolved at the earliest. The sample grievance registration form is included in **Appendix O.I.**



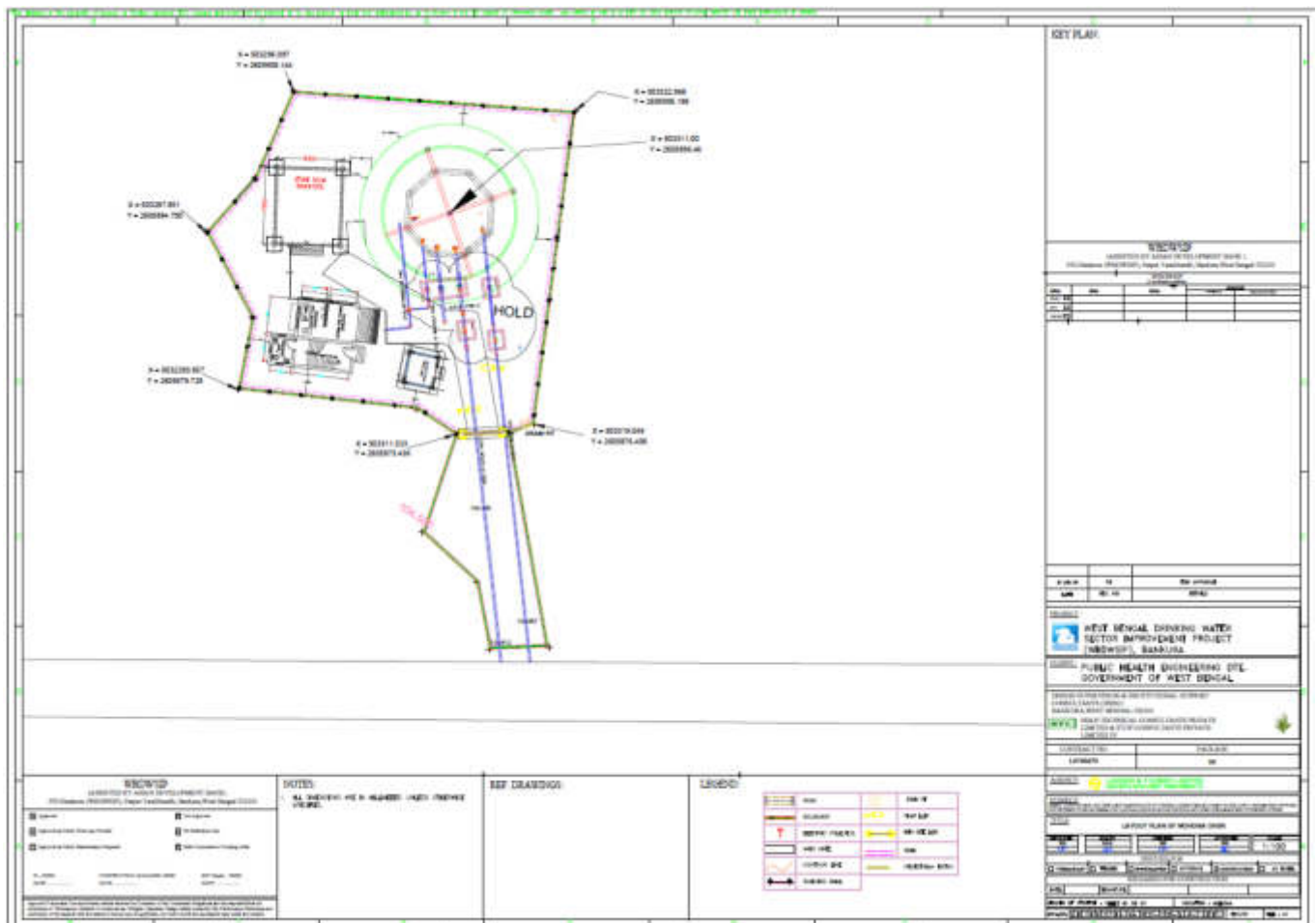
 <b>L&amp;T Construction</b> <i>Water &amp; Effluent Treatment</i>	<b>Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes.</b> <b>(Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)</b>	<b>Doc. No. L&amp;T/ SEMP /02</b> <b>Last Revision No. 00</b> <b>Last Revision Date : 00</b> <b>Page 32 of 46</b> <b>Original Issue Date :</b>
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#### **Attachment O9: Procedure for information disclosure prior to start of works**

- Local population is informed through community leaders as well as by visiting individual households of the locality.
- Information board is placed at construction site
- Stakeholder consultation carried out at Gram Panchyat level and work details including time period is informed.

## Site Specific Environmental Management Plan

### Appendix- O.A: Site Layout Plan



	<b>Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes.</b> <b>(Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)</b>	<b>Doc. No. L&amp;T/ SEMP /02</b> <b>Last Revision No. 00</b> <b>Last Revision Date : 00</b> <b>Page 34 of 46</b> <b>Original Issue Date :</b>
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## Appendix O.B: Labour License

04




**GOVERNMENT OF WEST BENGAL**  
OFFICE OF THE DEPUTY LABOUR COMMISSIONER, BANKURA SADAR  
OFFICE OF THE DEPUTY LABOUR COMMISSIONER, BANKURA, 1/2/B.CHANDMARIDANGA, BANKURA - 722101.

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

Licence No. : **BAN04/CLL/000187** Date : **13th Aug, 2019**

Lic Fees	250
S.Deposit	10000

**LICENCE**

Licence is hereby granted to **Larsen & Toubro Limited at Banashree pally, Barjora, Block- Barjora , Bankura Sadar , PS - Barjora , District - Bankura, Pin Code - 722202** under Section 12(1) of the Contract Labour (Regulation and Abolition) Act, 1970 subject to the conditions specified in Annexure.

The Licence shall remain in force till: **11th Aug, 2020.**

**ASHIS KUMAR GARAI**

Digitally signed by ASHIS KUMAR GARAI  
Date: 2019.08.13 17:30:37 +05'30'


Licensing Officer  
Under the Contract Labour(R&A) Act, 1970  
&  
Assistant Labour Commissioner  
Bankura Sadar , Bankura

**Establishment Information:**  
Project Implementation Unit, Public Health Engineering Directorate [BAN08/CLR/000038]  
W.Site - Ailakundi, PHE Complex ,  
Anchuri, Block - Bankura -I , Bankura Sadar - 722102, PS - Bankura , Bankura

**Work site exact location:**  
Mejhia Distribution Project  
Gangajalghati, Block- Gangajal Ghati , Bankura Sadar  
PS - Gangajalghati , District - Bankura, Pin Code - 722133

1 of 2

IP)

	<b>Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes.</b> <b>(Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)</b>	<b>Doc. No. L&amp;T/ SEMP /02</b> <b>Last Revision No. 00</b> <b>Last Revision Date : 00</b> <b>Page 35 of 46</b> <b>Original Issue Date :</b>
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## Appendix O.C: Workman Compensation



Certificate No: 696

Date: 02-Dec-2019

### To whomsoever it may concern

This is to certify that we have issued Group Personal Accident Policy No. 4005/102843874/04/000 to M/S. Larsen & Toubro Limited valid for the period 31-03-2019 to 30-03-2020.

This Policy covers all Permanent Workers, Temporary Workers, Sub-contractor's Workers, Piece-rate workers, Trainee Workers working at Project/Office of L&T Ltd and their Subsidiary & Associate Companies, Factories & Consortiums, SPVs, JVs, L&T Infrastructure Development Projects Ltd, L&T Hydrocarbon Engineering Ltd located anywhere in India.

This Policy covers the above workers in the following project site.

**LE190279 - Design and Construction of Overhead Reservoir including Water Supply Distribution Network and Metering Works in Mejhia and Gangajalghati Blocks including Rehabilitation of Existing Schemes**

For ICICI Lombard General Insurance Co Ltd



**Rathnakar Nairy K | Associate Vice President – Specialized Industries**

### ICICI Lombard General Insurance Company Limited

AA

**Mailing Address:**

401 & 402, 4th Floor, Interluxe 11,  
New Linking Road, Malad (West),  
Mumbai - 400 064.

**Registered Office:**


ICICI Lombard House, 414, Vastu Sakar Marg,  
Near Siddhi Vinayak Temple, Pabbhadevi,  
Mumbai - 400 025.

**Toll free No. : 1800 2666**


**Alternate No. : 0 92238 22888 (chargesable)**

**Email : customersupport@icicilombard.com**

**Website : www.icicilombard.com**

	<b>Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes.</b> <b>(Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)</b>	<b>Doc. No. L&amp;T/ SEMP /02</b> <b>Last Revision No. 00</b> <b>Last Revision Date : 00</b> <b>Page 36 of 46</b> <b>Original Issue Date :</b>
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## Appendix O. D- Risk Policy



Date: 13-08-2019

Customer ID : 101770109

Customer Name : LARSEN AND TOUBRO LIMITED

Address : 11<sup>th</sup>, tower-II, Godrej Water Side Building Salt Lake city, North 24 Paraganas,  
West Bengal , 700091

Dear Sir,

**Subject: Interim Held Cover Letter**

In consideration of having received the below premium – we hereby confirm our coverage with effect from 12-Aug-2019 00:00 Hrs strictly as per terms quoted by us on 07-Aug-2019 and subject to our standard Policy Terms and Conditions.

<b>Line of Business</b>	Engineering
<b>Type of Policy</b>	Erection All Risk Policy
<b>Insured</b>	<b>Principal</b> Public Health Engineering Directorate, Project Management Unit, West Bengal Drinking Water Sector Improvement Project, Utility Building, 1st Floor, (Premises No-09/1-0024) AA-1A, (Tank No.3), New Town Kolkata -700156
	<b>Contractor</b> M/s Larsen & Toubro Limited, 11th, Tower –II, Godrej Water Side Building, Salt Lake City, North 24 Paraganas, West Bengal- 700091
<b>Perils Covered</b>	As per quote submitted
<b>Sum Insured / Limit of liability</b>	EAR Section 1 : INR 214,10,00,000 EAR Section 2 (Third Party Liability) : INR 25,00,00,000
<b>Period of Insurance</b>	From 12-Aug-2019 00:00 Hrs To Midnight of 26-May-2022 + 12 Extended Maintenance Period as per Proposal form
<b>Project Period</b>	From 27-May-2019 00:00 Hrs To Midnight of 26-May-2022
<b>Deductible/ Retention</b>	As per quote submitted
<b>Exclusions</b>	As per quote submitted
<b>Premium Payable[Including Taxes]</b>	EAR Total Premium : INR 30,31,656
	EAR 1 <sup>st</sup> Instalment Premium : INR 6,31,595

**Additional terms:-**

<b>Job No : LE190279</b>
<b>Description:</b> Design and Construction of Overhead Reservoir including Water Supply Distribution Network and Metering Works in Mejhia and Gangajalghati Blocks including Rehabilitation of Existing Schemes.

## West Bengal Drinking Water Sector Improvement Project (WBDWSIP)





Above coverages and exclusions are suggestive in nature. For complete details please refer to Policy schedule and standard Policy Terms and Conditions to be issued. Detailed Policy schedule with coverages and exclusions will be sent to you at the earliest.


This letter will be valid only till we issue an insurance policy. Non realization of cheque/DD/PO will result into cover being void ab-initio.

Thanking You,

For Bajaj Allianz General Insurance Company Limited





	<b>Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes.</b> <b>(Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)</b>	<b>Doc. No. L&amp;T/ SEMP /02</b> <b>Last Revision No. 00</b> <b>Last Revision Date : 00</b> <b>Page 38 of 46</b> <b>Original Issue Date :</b>
<b>Site Specific Environmental Management Plan</b>		

## Appendix- O.E- Medical Tie up Letter



Project Office :  
L&T Construction  
Water & Effluent Treatment  
Barjora, Notaji Colony  
PO+PS- Bankura-722202  
West Bengal -India

Ref: PMU/WBDWSIP/PHED/84/186. Dated: 28/02/2019&  
PMU/WBDWSIP/PHED/84/410. Dated: 27/05/2019

Date:22-10-2019

To,  
KCP Memorial Hospital  
Barjora – Gangajhal Ghati,  
District- Bankura,  
West Bengal -722202

**Sub: "MoU for Staff & Workers Medical Health Checkup"-Reg.**

Dear Sir,

With reference to the above subject we are pleased to sign this MoU for staff's and worker's Medical Health Checkup as per the following:

**Purpose & Scope:** Medical Health Checkup for Staff and Workers whenever necessary.

**Condition & Arrangements:** Medical Health Checkups needs to be performed whenever required. You are also required to attend our staffs or workers in case of any emergency. The location/ premises will be as the convenience of both the parties.

**Timings:** 24 x 7

**Payment Terms:**

Bill is to be submitted on Monthly basis & payment is to be made within fifteen days of Bill submission.

Tax as applicable will be recovered.


Payment will be made by NEFT/RTGS only.

The present MoU elucidates the general conditions and arrangements for future cooperation between concerned parties.

Kolkata Cluster Office :- Godrej Waterside Building, 11 Th. Floor, Salt Lake, Sector-V Block-Dp-5, Kolkata-700091, West Bengal, India.  
Headquarters: Mount Poonamallee Road, Manapakkam, P.B. No. 979, Chennai - 600 089. INDIA  
Registered Office: L&T House, N. M. Marg, Ballard Estate, Mumbai - 400 001. INDIA  
Licence No.: CIN - L99999MH1946PLC004768 Website: www.Lntec.com

L&T Construction - Water & Effluent Treatment is a brand of Larsen & Toubro Limited

## West Bengal Drinking Water Sector Improvement Project (WBDWSIP)

 <b>L&amp;T Construction</b> Water & Effluent Treatment	Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes. (Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)	Doc. No. L&T/ SEMP /02 Last Revision No. 00 Last Revision Date : 00 Page 39 of 46 Original Issue Date :
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Project Office :  
L&T Construction  
Water & Effluent Treatment  
Barjora, Netaji Colony  
PO-PS- Bankura-722202  
West Bengal - India

Signature

For and on behalf of: Larsen & Toubro Limited

Date: 22/10/19.

Signature



For and on behalf of: KCP Memorial Hospital

Date: 22/10/19.

Thanking you in anticipation:

For L&T Construction,


ADMIN & IR  
Bankura Packages (3&4),  
West Bengal

Bankura- Mejia Intake & WTP Project  
Bankura- Mejhia Distribution

Kolkata Cluster Office - Godrej Waterside Building 11 Th Floor Salt Lake Sector-V Block-Dp-5 Kolkata-700091, West Bengal, India  
Headquarters: Mount Poonamallee Road, Manapakkam, P.B. No. 979, Chennai - 600 089, INDIA  
Registered Office: L&T House, N. M. Marg, Ballard Estate, Mumbai - 400 001, INDIA  
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West Bengal Drinking Water Sector Improvement Project (WBDWSIP)

 <b>L&amp;T Construction</b> Water & Effluent Treatment	Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes. (Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)	Doc. No. L&T/ SEMP /02 Last Revision No. 00 Last Revision Date : 00 Page 40 of 46 Original Issue Date :
Site Specific Environmental Management Plan		

## Appendix O.F: PUC Certificates

**POLLUTION UNDER CONTROL CERTIFICATE**  
(Under the West Bengal Motor Vehicles Rules, 1989)

Vehicle Registr. No.: **WB67B-4292** WB-01-**D** **4961694**

Date of issue: **01/Jul/2019** Valid upto **31/Dec/2019**

Pollution Level

CO (%)	4.12
HC (ppm)	
SD (HSU)	

PUC Certificate issued by: **P.C POLLUTION CHECKING CENTRE** License No. and Seal: **BANK/40/2016**

Signature: *[Signature]* **INDIA VALID**

**BANGALORE P.C.C. 123135 BANK HRA**

**POLLUTION UNDER CONTROL CERTIFICATE**  
(Under the West Bengal Motor Vehicles Rules, 1989)

Vehicle Registr. No.: **WB67B 7218** WB-01-**D** **3723953**

Date of issue: **22-11-2010** Valid upto: **21-11-2020**

Pollution Level:

CO (%)	
HC (ppm)	0.25
SD (HSU)	

PUC Certificate issued by: **P.C. POLLUTION CHECKING CENTRE** License No. and Seal: **23/2010**

Signature: *[Signature]*

**KUN AUTO EMISSION TESTING CENTRE MORE, TALLANGRA**

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West Bengal Drinking Water Sector Improvement Project (WBDWSIP)





Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes.  
(Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)

Doc. No. L&T/ SEMP /02  
Last Revision No. 00  
Last Revision Date : 00  
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Original Issue Date :

## Site Specific Environmental Management Plan

GOVERNMENT OF WEST BENGAL  
State Transport Department Bankura RTO  
FORM 23  
CERTIFICATE OF REGISTRATION



Registration No : WB67B7218 Registration Date : 20-Mar-2019  
Description of Vehicle : EXCAVATOR Purpose For Printing RC : NEW  
(COMMERCIAL)  
Dealer's Name & Address : JAYASHREE AUTOMOBILES(I) P LTD, ANDAL MORE, BURDWAN, ...  
Owner Name : BIBHAS MISHRA Son/wife/daughter of : MANIK MISHRA  
Full Address: (Permanent) : PATDOHA, SHYAMPUR, SALTORA, BANKURA, WEST BENGAL-722158  
Full Address: (Temporary) : PATDOHA, SHYAMPUR, SALTORA, BANKURA -WEST BENGAL-722158  
Fitness UpTo : 19-Mar-2021 Tax UpTo : 19-Mar-2020  
Owner Serial No : 1  
Detailed Description  
Class of Vehicle : EXCAVATOR Link Vehicle No :  
(COMMERCIAL)  
Ownership : INDIVIDUAL Norms : Bharat Stage III (CEV)  
Maker's Name : JCB INDIA LIMITED  
Front HSRP No : AA121054168 Rear HSRP No : AA121054169  
Type of Body : SIDE SHIFT BACKHOE LOA Month/Year of Manuf. : 02/2019  
DER  
No of Cylinders : 4 Chassis No : HAR3DXXTT02718703  
Engine No : H00215832 Fuel : DIESEL  
Horse Power(BHP) : 75.04 Cubic Capacity : 4765.00  
Maker's Classification : JCB 3DX XTRA Wheel base : 2200  
Seating Cap(in all) : 1 Standing Cap : 0  
Sleepar Cap : 0 Unladen Wt (kgs) : 7600  
Colour : YELLOW Laden/GV Wt (kgs) : 7660  
Other Criteria : AC Fitted : NO  
Vehicle Purchase As : Fully Built

Additional Particulars of all transport vehicles other than motor cabs (Gross Vehicle Weight)

By Manuf.	Description	As Regd.	Weight(in kgs)
a) Front:	1	1	
b) Rear:	1	1	
c) Other:	1	0	
d) Tandem:	1	0	

The motor vehicle above described is subject to Hypothecation in favour of SUNDARAM FINANCE LTD, DURGAPUR, , Paschim Burdwan, West Bengal-713216 w.e.f. 08-Mar-2019.

Purchase dt	08-Mar-2019	Sale Amt	2620000/-
OTT Date	20-Mar-2019	Amount/Rcpt No	6528 / WB67R19030003101
TaxUpTo	19-Mar-2020	Vehicle is Govt./ Pvt.	PRIVATE
Tax Exempted or Not	NOT EXEMPTED	Date of Approval	20-Mar-2019
Other State/Transfer/Conversion Details			
Previous Owner		Previous RegNo	
Old State		Entry Date	
Transfer Date		Conversion Date	

Date : 20-Mar-2019 18:28:55

Taxation Particulars / Advance Registration Mark Fee Details

Signature of Registering Authority

Date : 20-Mar-2019

West Bengal Drinking Water Sector Improvement Project (WBDWSIP)

	<p>Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes. (Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)</p>	<p>Doc. No. L&amp;T/ SEMP /02 Last Revision No. 00 Last Revision Date : 00 Page 42 of 46 Original Issue Date :</p>
<p align="center"><b>Site Specific Environmental Management Plan</b></p>		

#### Appendix O.G: Contractor's EHS Policy Statement

## Corporate Environment, Health & Safety (EHS) Policy

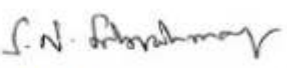
We remain committed to safeguarding the health and safety of our employees and other stakeholders and preserving the environment.


To fulfil the above commitment, we will ensure the following:

- Incorporate applicable EHS requirements across all processes, right from tendering, planning, design, recruitment and procurement, production, execution, operation and maintenance to align with their respective business objectives
- Meet or exceed all applicable legal and other compliance obligations, irrespective of the stipulations of the enforcement authorities in the country of operation
- Pay serious attention to workmen welfare, especially to their habitat, to improve morale, retention and thereby productivity
- Impart structured training and augment resources for effective EHS performance
- Prevent adverse environmental impact and occupational health and safety risks
- Conserve natural resources, minimize waste generation and environmental emissions
- Encourage communication, consultation and collaboration with all stakeholders
- Establish SMART EHS objectives to permanently reduce EHS risks by eliminating hazards or substituting with less harmful equipment, material, methods and review implementation to achieve continual improvement.

This policy to be communicated to all our stakeholders and reviewed every year to ensure that it remains relevant to our business and effective to improve performance.

Date: 1<sup>st</sup> July, 2019

  
**S N SUBRAHMANYAN**  
Chief Executive Officer  
& Managing Director

  
**LARSEN & TOUBRO**  
 It's all about Imagineering

**West Bengal Drinking Water Sector Improvement Project (WBDWSIP)**

## Site Specific Environmental Management Plan

### ENVIRONMENT HEALTH & SAFETY POLICY

The **Water and Effluent Treatment IC** of L&T Construction is committed to conserve the Environment and to provide a Healthy, Safe and Cordial Workplace to Employees and Stakeholders.

#### EHS Philosophy

- Minimize the Environmental Aspect & Impacts
- All incidents are preventable
- "Zero Harm" across the work places and offices
- Preserve natural resources for future generations and
- No task is so important that risk of injury to people or damage to the environment is justified

#### The objectives of this EHS Policy shall be achieved by

- Integrating the EHS Plan and Procedures into every operations of the Independent Company.
- Achieving an incident free work places and offices through proactive capturing and correcting of maximum number of UA/UC/UB, Near Miss and First-Aid cases and subsequent reduction of Severity Rate, Frequency & Fatality Rates
- Compliance to applicable Legal and Other Requirements.
- Elimination & Reduction of OH&S Hazards and Risks.
- Encouraging the preparation of HIRA & EAISR across the sites and offices to have better proactive EHS hazard control measures and minimize the environmental aspect and impact
- Inculcating a positive EHS culture among employees through continuous training and awareness programs
- Encouraging Communication, Consultation and Coordination among Employees, Stakeholders and External Agencies
- Achieving continual improvement by integrating EHS procedures into every process and through periodic internal/external auditing of IMS Management System
- Continuous monitoring of EHS Implementation across the IC through various software modules
- Assessing and employing the Sub-Contractors complying with L&T/WET-IC IMS Standard.
- Engages, Motivates and Develops Employees to promote Sustainability Initiatives that result in Innovative Ideas, Operational efficiencies, Cost savings and a reduced Environmental footprint.
- Preserving water through Reduce, Reuse and Recycle principles.

The Top management is committed to provide Manpower, Infrastructure and Financial assistance for achieving the above EHS objectives. Employees are accountable and responsible for implementing and maintaining the EHS Management System across the WET-IC, Business Units, Tendering & Contracts, EDRC, P&M, HR, HR (W), IR & Admin, Supply Chain & Sub-Contractor Management and other Functional departments and Sites shall support and implement the above Management directives to achieve "Zero Harm" across the WET-IC as per employment conditions.

  
**S. Rajavel**

SR. VP & Head  
 Water & Effluent Treatment IC & SWC BU

Date: 18<sup>th</sup> September, 2018



## Site Specific Environmental Management Plan

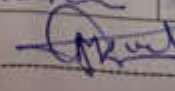
### Appendix O.H: Attendance Sheet of Tool Box Talk

L&T Construction, Water & Effluent Treatment IC Pep Talk Report		Page 2 of 2	
Document No: IM-12-A	Revision No: 05	Date: 18/09/2018	

Date: 12-12-2019  
 Time: 8:10 AM  
 Location: Mohona  
 Topics: Housekeeping


Conducted By: M. Gupta.

S. No.	Name	Designation	Signature
1	ABDUL HOUQUE	Editor	Abdul Houque
2	LAL MOHAMMAD SIL	Contractor	LAL MOHAMMAD SH
3	ATIRUDDIN KHAN	Mason	Atiruddin Khan
4	JALARAM TUDU	Helper	Jalaram Tudu
5	TAPAS BAURI	4	Tapas Bauri
6	PRADIP BAURI	4	Pradip Bauri
7	DULAL BAURI	11	Dulal Bauri
8	MAKMAUL SIL	11	Makmaul Sil
9	SADIDUL KHAN	Mason	Sadidul Khan
10	NIRANTAN BAURI	Helper	Nirantan Bauri
11	BADIRUL ISLAM	Contractor	Badirul Islam
12	ROFIKUL SIL	Mason	Rofikul Sil
13	MD SARIFUL HOQUE	Helper	MD Sariful Hoque
14	HANIP SEKH	Supervisor	Hanip Sekh
15	BISWONATH BAURI	Helper	Biswonath Bauri
16	B GANESH LAL CHAUDHARI	Helper	B Ganesh Lal Chaudhari

Signature of Trainer: 

"We are committed to achieve the "Zero Harm" across the sites of WET IC."

Sensitivity: LNT Construction Internal (EHS Department - HQ, WET IC) © L&T Construction. All rights reserved

	<b>Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes.</b> <b>(Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)</b>	<b>Doc. No. L&amp;T/ SEMP /02</b> <b>Last Revision No. 00</b> <b>Last Revision Date : 00</b> <b>Page 45 of 46</b> <b>Original Issue Date :</b>
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## Appendix-O.I: Sample Grievance Registration Form

(Available in Bengali and English)

The \_\_\_\_\_ Project 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	Project Town			
		Project:			
Contact information/personal details					
Name		Gender	* Male * Female	Age	
Home address					
Place					
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)	
Mode of communication: Note/letter E-mail Verbal/telephonic	
Reviewed by: (Names/positions of officials reviewing grievance)	
Action taken:	
Whether action taken disclosed:	Yes No
Means of disclosure:	

West Bengal Drinking Water Sector Improvement Project (WBDWSIP)

 <b>L&amp;T Construction</b> Water & Effluent Treatment	<b>Design and construction of overhead reservoir including water supply distribution network and metering works in Mejhia and Gangajalghati blocks including rehabilitation of Existing schemes.</b> <b>(Contract Package No: WBDWSIP/DWW/NCB/BK/04/2018-19)</b>	<b>Doc. No. L&amp;T/ SEMP /02</b> <b>Last Revision No. 00</b> <b>Last Revision Date : 00</b> <b>Page 46 of 46</b> <b>Original Issue Date :</b>
<b>Site Specific Environmental Management Plan</b>		

অভিযোগ নিবন্ধন ফর্মের নমুনা

..... প্রকল্পকে বাস্তবায়িত করার লক্ষ্যে অভিযোগ, পরামর্শ, অনুসন্ধান এবং মন্তব্যের জন্য স্বাগত।

আমরা অভিযোগকারীকে অভিযোগ সহ নাম জানাতে উৎসাহিত করি এবং আপনার সাহচর্যে এসে এর শোধান ও প্রতিক্রিয়া জানাতে সক্ষম হই।

অবশ্যই আপনি আপনার ব্যক্তিগত বিষয় বিস্তারিত ভাবে যুক্ত করতে ইচ্ছাপ্রকাশ করবেন। যে তথ্য আপনি দেবেন, তা অবশ্যই গোপন থাকবে। তাই অনুগ্রহ করে আপনার নাম লিখে / টাইপ করে জানান।

তারিখ	নিবন্ধনের জায়গা		প্রকল্পের শহর প্রকল্পঃ		
যোগাযোগের তথ্য / বিস্তারিত ব্যক্তিগত তথ্য					
নাম		লিঙ্গ	পুরুষ মহিলা	বয়স	
বাড়ীর ঠিকানা					
জায়গা / স্থান					
ফোন নং					
ই-মেল					
যেকোন অভিযোগ / পরামর্শ / মন্তব্য / প্রশ্ন অনুগ্রহ করে নিচে বিস্তারিতভাবে (কে, কি, কোথায় এবং কেমন করে) আপনার অভিযোগ জানান					
যদি কোন সংযুক্তি / চিরকুট / চিঠি অন্তর্ভুক্ত করতে চান, অনুগ্রহ করে সেখানে টিক দিন।					
আপনার অভিযোগ / মন্তব্যের হালনাগাদ (আপডেট) বা প্রতিক্রিয়া কিভাবে পেতে চান?					

Office ব্যবহারের জন্যঃ

অভিযোগ নিবন্ধনকারী আধিকারিকের নামঃ	
যোগাযোগ ব্যবস্থাঃ	
চিরকুট / চিঠি-	
ই-মেল-	
মৌখিক / টেলিফোন-	
নিবন্ধকৃত অভিযোগ পর্যালোচনাকারী আধিকারিকের নাম ও পদঃ	
অভিযোগের বিরুদ্ধে গৃহীত ব্যবস্থা-	
গৃহীত ব্যবস্থা প্রকাশ্যে আনা হয়েছে কি না	হ্যাঁ না
প্রকাশের উপায়	

West Bengal Drinking Water Sector Improvement Project (WBDWSIP)