

Site-Specific Environmental Management Plan

Project number: 49107-006
September 2019

IND: West Bengal Drinking Water Sector Improvement Project – Design and Construction of Overhead Reservoir Including Water Supply Distribution Network and Metering Work in Haroa Block (Zone 18 OHR – Gopalpur)

Package No: N24P/02A

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

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


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SITE SPECIFIC ENVIRONMENTAL MANAGEMENT PLAN

WBDWSIP HAROA BLOCK

LOCATION: ZONE 18 GOPALPUR (OHR WORK)

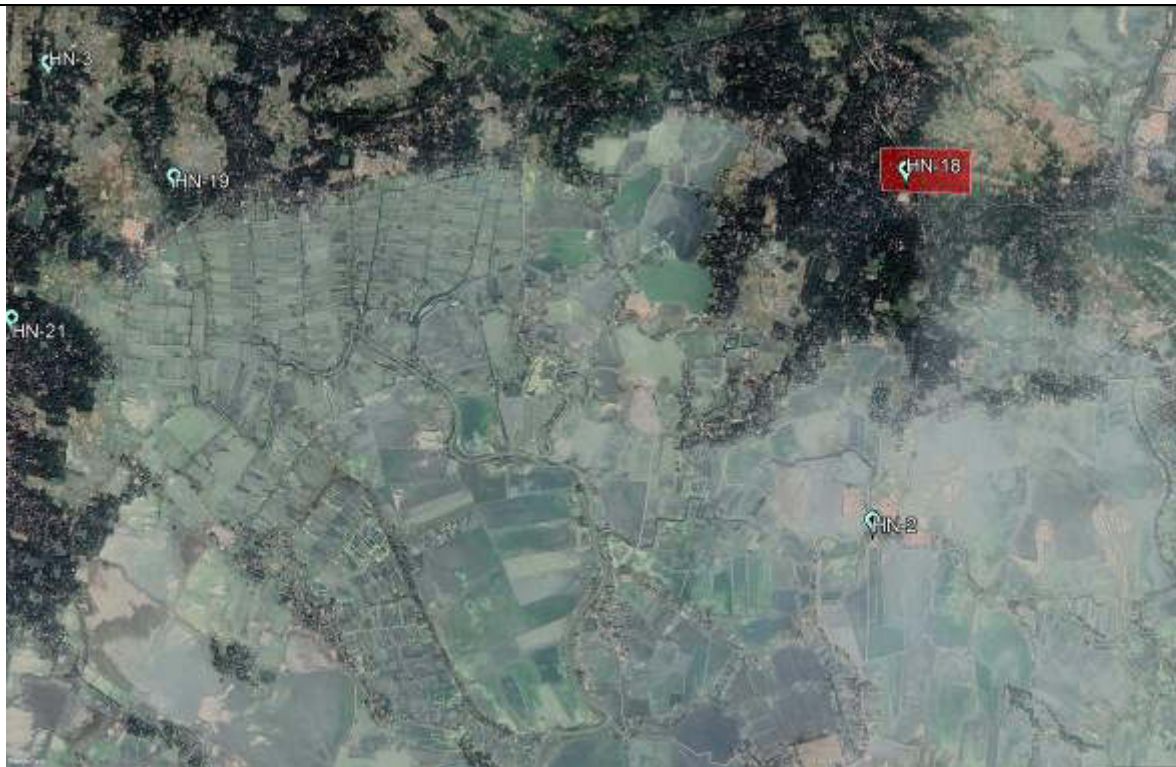
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Environmental Specialist, DSISC
North 24 Parganas

West Bengal Drinking Water Sector Improvement Project
WBDWSI Project

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Package No	Package No : N24P/02A Zone 18- OHR (Gopalpur) under PIU North 24 Parganas
Package title	Design and Construction of Overhead Reservoir Including Water Supply Distribution Network and Metering Work in Haroa Block . SEMP is as per requirement of the Draft IEE covering package no. N24P/02A
Contractor	NCC Pvt. Ltd.
Date of Contract Award	19/09/2018
Date of works commencement	26/09/2019
Contract period	Construction: 3 Years ; O&M: 2 Years
SEMP Component	Construction of Overhead Reservoir – 1000 KL
Demolition Works	No demolition activity involved
Project Area	Gopalpur village , Gopalpur I Gram Panchayet of Haroa Block
Project Description	Individual household water supply schemes for the project Gram Panchayats
Indicative Budget for EMP Implementation for the entire package	INR 21,42,500/-
Project Components	As per project detailed design
Gram Panchayet: Gopalpur I	
Land Status	PHED
OHR Capacity	1000 KL
Location Map	



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Details of contractors on-site-personnel and workers	Zone 18- OHR (Gopalpur village), Gopalpur I Gram Panchayet of Haroa Block
Project Manager	Mr. Ramesh Singh; 8170011450
Site Engineer	Mr. Suman Paul; 7076274664
Site Supervisor	Mr. Tapendu Paramanik; 6296804910
EHS Supervisor	Mr. Saradindu Gain; 9775459487
Archeological supervisor	NA
Skilled / semi-skilled workers	4 skilled and 0 Semi-skilled
Unskilled workers	9
Women workers	Nil
Workers – local / migrant	Local-Nil / Migrant-13 (from other districts of West Bengal)
Details of facilities	
Construction camps, (no's and locations)	Labor accommodation at OHR site of Gopalpur village (Ref. Attachment O2)

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

Field/Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
Infrastructure and Services	Electric poles and wires, water lines within proposed project area of OHR site.	<ul style="list-style-type: none"> Locations and operators of these utilities to be identified as per detailed design documents to prevent unnecessary disruption of services during construction phase. Prepare spoils(Waste) management plan. 	<ul style="list-style-type: none"> Contingency Plan has been developed by informing to emergency services like WBSEDCL, Telecommunication, local administration and police etc. First, we are digging the trial pit manually, if any obstruction arise the same is removed as per direction of end user The construction work to continue without disturbing the existing pipeline and electric poles. Spoil Management Plan is included in Attachment O7 included with this SEMP 	Contractor	DSISC observation at site and document checking	Project cost
Climate	The nature and intensity of rainfall events in an area, has implications for surface water management.	<ul style="list-style-type: none"> Seasonal climatic variations should be taken into account during scheduling of construction in the area. 	<ul style="list-style-type: none"> Excavation works schedule during dry season have been approved by PMU. If excavation work is to be conducted during rainy season then preventive measures will be taken as per PMU approved method. 	Contractor, PIU	DSISC observation at site document checking	Project cost
Sources of Materials	Extraction of materials can disrupt natural land contours and vegetation resulting in accelerated erosion, disturbance in natural drainage patterns, ponding and water	<ul style="list-style-type: none"> Obtain construction materials only from government approved quarries with prior approval of PIU. On a monthly basis documentation on material obtained from each source (quarry/borrow pit) should be submitted. In case of involvement of new quarries/ borrow 	<ul style="list-style-type: none"> No involvement of any new borrow area or quarry is anticipated. 	Contractor, PIU	DSISC observation at site and document checking	Project cost

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Field/Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
	logging, and water pollution.	areas, prior steps will follow for all clearances and permissions as required under law.				
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.	<ul style="list-style-type: none"> • All necessary consents, permits, clearance, NOCs, etc prior to award of civil works should be obtained. • All necessary approvals for construction to be obtained before start of construction. • Acknowledge in writing and report on compliance consents, permits, clearance, NOCs etc. obtained. 	<ul style="list-style-type: none"> • Already done land requisition, electric connection, water source etc. • This site has numerous trees and would require tree felling. Accordingly, tree cutting permission has been obtained for cutting of 11 trees [refer Appendix O.A] • Made provision for detailed design drawing and documented all conditions • Please refer Attachment O3 for list of relevant permits and clearances. 	Contractor and PIU	DSISC observation at site and document checking	Project cost

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

Field/ Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
Air Quality	Emissions from construction vehicles, equipment machinery and DG set used for excavation and construction resulting in dust and increase in concentration of	<ul style="list-style-type: none"> • Following 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”: ○ Only vehicles having valid Pollution Under Control Certificates should be engaged in the project. ○ Vehicles transporting (cement, sands 	<ul style="list-style-type: none"> • Only vehicles having valid PUC certificate have been engaged in the project. • Mixer machine, winch machine and DG set used for concreting and pilling are not left for idling, after completion of work. • Sprinkling and dust screen arrangement have been made, and will be used when required. 	Contractor	PIU through DSISC observation at site and document checking	Project cost

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Field/ Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
	vehicle-related pollutants such as carbon monoxide, sulphur dioxides, particulate matter, nitrogen oxides, and hydrocarbons	etc) should be covered and cleaned prior to release at site, sprinkling of water and stabilization of soil for dust hazards to be carried out on site. • Damp down soil, sand/ earth stockpiled at site should be maintained as per site condition. • Control unnecessary movement of vehicle, public trespassing into work areas for control of dust generation. • If required, then provide a dust screen/high compound wall around the construction sites (OHR).	• Site has been access controlled to prevent trespassing. • Stock piles will be maintained in such a way to minimise dust rising. • Air quality Monitoring has been conducted at following five places (Zone-2 Nebutala Abad, Zone-5 Tegharia, Zone-13 Chauhata, Zone-17 Shalipur and Zone-21 Haroa) in the Haroa Package.			
Drainage and hydrology	Due to the nature and locality of the projects there is unlikely to be any significant impacts on water resources within the immediate area.	• The effluent should be discharged into local drains after passing through a sediment basin to prevent contamination of existing drains and local water bodies. • Where no local drains are available, a soak pit will be created on-site away from water bodies .	• The site surface has been engineered and shaped in such a way that rapid and efficient evacuation of runoff is achieved. • Arrangements have been made to release effluent from the site to a local drain after passing through a sedimentation basin, so that it does not contaminate existing drain and pond around the project site	Contractor	PIU through DSISC observation at site and document checking	Project cost
River/Surface water quality	Mobilization of settled silt materials, run-off from stockpiled materials, and chemical contamination from fuels and	• Avoid stockpiling of earth fill; especially in monsoon season, cover it with tarpaulins or plastic sheets. • Prioritize and implement reuse of excess spoil and materials in the construction work; if necessary, dispose in designated disposal area. • Storage locations should have impervious floors	• No stockpiles have been planned near drainage locations/ nearby water bodies. • Storage areas are compacted and made impervious. • Locations for fuels and lubricants store is away from drainage path and spill kits have been obtained. • All excavated materials expected to	Contractor	PIU through DSISC observation at site and document checking	• Project cost

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Field/ Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
	lubricants during construction works can contaminate nearby surface water quality.	<ul style="list-style-type: none"> Fuels and lubricants should be stored away from drainage and spillage protection should be provided Provision for temporary silt traps or sedimentation basins along the drainage leading to the water bodies should be provided, according to situation. Temporary drainage channel around the work area should be made to accumulate the entry of runoff from upper areas into the work area. Provision of pumping out of the water from the pits/excavations to a temporary sedimentation pond or disposal after sedimentation should be taken into consideration. 	be utilized on-site only. No excess spoil anticipated. <ul style="list-style-type: none"> Surface water monitoring has been conducted already following two places (Zone-2 Nebutala Abad and Zone-13 Chauhata) in the Haroa project as per Environmental Monitoring Plan recommended in the IEE. 			
Biodiversity Fauna and Flora	Due to the nature and locality of the project there is unlikely to be any significant impacts on bio-diversity within the area.	<ul style="list-style-type: none"> For flora protection, tree cutting is strictly prohibited; if necessary then obtain permission through proper channel. For faunal activity, instruction should be given to everyone to inform site EHS Coordinator who should take appropriate action for their protection and safe rescue. 	<ul style="list-style-type: none"> So far no faunal movement has been observed in this site. Some trees are present on the site and felling of tree will be required at this site. Accordingly, tree cutting permission has been obtained (refer Appendix O.A). 	Contractor	PIU through DSISC observation at site and document checking	<ul style="list-style-type: none"> Project cost
Noise Levels	Increase in noise level due to earth-moving and excavation equipment, and the	<ul style="list-style-type: none"> Minimize noise from construction equipment by using vehicle silencers, fitting jackhammers with noise-reducing mufflers minimising the sound impact to surrounding sensitive receptor; Horns not to be used unless it is 	<ul style="list-style-type: none"> Consultation made with local communities in advance of the work to identify and avoid working at sensitive times, such as religious and cultural festivals. Planned activities in consultation 	Contractor	PIU through DSISC observation at site and document checking	<ul style="list-style-type: none"> Project cost

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Field/ Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
	transportation of equipment, materials by labours	necessary to warn other road users; <ul style="list-style-type: none"> • Ensure maximum work place noise level exposure not exceeding 85 decibels (dbA); • Ensure noise level at site boundary comply with standard prescribed for local landuse; and • Baseline and construction phase Noise Monitoring (Day & Night time) should be conducted. 	with DSISC so that activities with the greatest potential to generate noise are conducted during periods of the day which will result in least disturbance. <ul style="list-style-type: none"> • Mixer machine, winch machine and DG sets used for concreting and pilling are properly maintained and stopped immediately after completion of work. • Baseline monitoring has been conducted. • Noise quality Monitoring has been conducted at following five places (Zone-2 Nebutala Abad, Zone-5 Tegharia, Zone-13 Chauhata, Zone-17 Shalipur and Zone-21 of Haroa) in the Haroa Block as per requirements prescribed in IEE. 			
Landscape and Aesthetics character, and sense of place	Construction wastes as well as excess construction materials may show some impact.	<ul style="list-style-type: none"> • Prepare a construction waste management plan for site. • Hazardous wastes e.g. waste oil, empty paint cans, etc. should be stored on site and then shifted to a central location from where these will be disposed in accordance with Hazardous Wastes Management Rule, 2016. • As far as possible utilize the debris and excess soil in construction purpose such as for site filling and labelling purpose. • Avoid stockpiling any excess spoils at the site for long time, if required, 	<ul style="list-style-type: none"> • Spoil management plan has been developed • Waste/construction waste is being managed according to the following preferential hierarchy: reuse and dispose. • Waste material like concrete and excavated soils are utilized for reuse and filling purpose. Also, other solid waste like cement bags are collected in a place on site and then shifted to our godown, from where these are disposed as per law. 	Contractor	PIU through DSISC observation at site and document checking	<ul style="list-style-type: none"> • Project cost

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Field/ Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
		dispose at the site selected, in consultation with local GP preferably from barren, infertile land, which is located away from any sensitive area.				
Occupational Health and Safety	Occupational hazards which can arise during work	Develop and implement a 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 etc. (c) documentation of work related accidents. (d) Providing qualified first aider at all times. (e) Providing to all workers reflective jacket, (f) Marking and providing sign boards for most of hazardous areas such as high voltage equipment, (g) Workers allowed exposure to noise level up to 85 dB (A) only.	<ul style="list-style-type: none"> Based on NCC's OHS Plan, a site specific OHS plan has been developed. Site OHS plan is attached at Attachment - O4. All workers have been provided with and made to use Personal Protective Equipment like helmet, gumboot, safety belt, gloves, nose mask and ear plugs; H&S Training for all site personnel has been arranged and it will be continued; H&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; Documented procedures are followed for all site activities; Work-related accidents will be recorded; Drinking water provided after proper testing. First Aid box provided at working sites; Clean eating areas provided to workers; 	Contractor	PIU through DSISC observation at site and document checking	<ul style="list-style-type: none"> Project cost

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Field/ Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
			<ul style="list-style-type: none"> Moving equipment maintained with audible back-up alarms 			
Socio Economic Employment	Generation of temporary employment and increase in local revenue	<ul style="list-style-type: none"> Employ local labour force as far as possible Comply with labour laws 	<ul style="list-style-type: none"> Local labours are employed, on priority, whenever available. Refer Attachment O3 for documents relating to statutory compliances 	Contractor	PIU through DSISC observation at site and document checking	<ul style="list-style-type: none"> Project cost
Environmental Management Plan (EMP) Implementation Training	Irreversible impact to the environment, workers, and community	<ul style="list-style-type: none"> 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 labour laws, applicable environmental laws etc. 	Training session for all employees has been arranged.	Contractor	PIU through DSISC observation at site and document checking	Project cost
Construction Camps	Temporary air, noise, land and water pollution from machine operation and after establishment of habitation	<ul style="list-style-type: none"> Camp sites shall be away from residential areas (100 m), sensitive areas (schools, hospitals, etc. 250 m), water bodies (500 m) and forests (more than 1 km) Use unused, vacant lands; no trees shall be cut Provide a proper fencing/compound wall Prepare a site layout plan & display at the site; uniformly label (name boards) all the places in the facility Entire site/facility area shall be provided with hard levelled surface as appropriate; no loose soil, slush, water logging etc., 	<ul style="list-style-type: none"> Before locating project offices, sheds, and construction plants we discussed with DSISC and within or nearest place has been selected, Till date no trees have been cut and no any destruction of property, irrigation and drinking water supply systems observed, Employees are trained for storage and handling of materials which can potentially cause soil contamination and water contamination; Solid waste managed according to the following preferential hierarchy: reuse, and disposal to designated areas; Kitchen wastes collected in a 	Contractor	PIU through DSISC observation at site and document checking	<ul style="list-style-type: none"> Project cost

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Field/ Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
		<ul style="list-style-type: none"> • Living quarters and construction camps shall be provided with standard materials; no shacks or huts • Adequate lighting and ventilation • Provide drinking water, water for other uses, and sanitation facilities; drinking water should be regularly tested • Provide clear pathways for safe movement • Provide cooking fuel (cooking gas); and a separate safe place to cook; fire wood not allowed • Construct septic tanks and soak pit arrangement for wastewater disposal • Solid waste shall be properly managed – provide separate bins, compost biodegradable waste; sell recyclable waste • According to rule and regulation camp will be vacated and restored to pre-project conditions before acceptance of work. 	dustbin then it is disposed outside from area to designated disposal location, <ul style="list-style-type: none"> • Daily generated effluent disposed by arrangements already present in camp/ household. • Details of labour accommodation is presented in Attachment O2. 			
Archaeological and Cultural characteristics	Risk of archaeological chance finds	<ul style="list-style-type: none"> • Strictly follow the protocol for chance finds in any excavation work; • Construction staff members should be made aware of the likelihood of heritage resources being unearthed and of the scientific importance of such discoveries. 	<ul style="list-style-type: none"> • No archaeological chance finds are reported at project sites till date. • If there is any such finding, action will be taken up as per requirement. 	Contractor	PIU through DSISC observation at site and document checking	<ul style="list-style-type: none"> • Project cost

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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	5 locations (to be selected during implementation to represent the overall project area)	<ul style="list-style-type: none"> PM₁₀, PM_{2.5} NO₂, SO₂, CO 	Once before start of construction Quarterly (yearly 4- times) during construction (2-year period considered)	Zone 02 - Nebutala Abada, Zone 05 - Kulti Uposasthya Kendra, Zone 13 - Paschim Bhaida Primary School, Zone 17 - Near Majanpur High School, Zone 21 - Haroa Market	225,000
Ambient noise	5 locations (same as air quality monitoring)	<ul style="list-style-type: none"> Day time and night time noise levels (24 hours) 	Once before start of construction Quarterly (yearly 4- times) during construction (2-year period considered)	Zone 02 - Nebutala Abada, Zone 05 - Kulti Uposasthya Kendra, Zone 13 - Paschim Bhaida Primary School, Zone 17 - Near Majanpur High School, Zone 21 - Haroa Market	67,500
Surface water quality	2 locations (to be selected during implementation)	<ul style="list-style-type: none"> pH, Oil and grease, Cl, F, NO₃, TC, FC, Hardness, Turbidity BOD, COD, DO, Total Alkalinity 	Once before start of construction Half yearly during construction (2-year construction period considered)	Zone-3 - Pond Water near Nebutola Abada, Zone 13 - Pond Water in Paschim Bhaida	40,000
Chance Finds	Areas protected by ASI or West Bengal State Archaeology Department	Chance finds protocol	Before finalization of detailed design, consult with ASI or West Bengal State Archaeology Department		

Note: * It should be noted that every quarter only 5 locations in the entire package is monitored for air and noise while two locations are monitored for surface water every half-yearly. Locations are changeable with progress of work. Present locations as mentioned in mitigation tables are base line monitoring conducted as per EMP provision. The exact locations of these monitoring are reported in SEMR over google earth image. For all the packages conduct of these monitoring is responsibility of concerned Contractor and cost for such already budgeted in the IEE.

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Monitoring Locations on Google Earth



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List of Attachments

Attachment O1: Details of construction Work sites
Attachment O2: Details of construction camp sites
Attachment O3: List of clearances & statutory requirements
Attachment O4: Contractor's OHS Policy & Organization
Attachment O5: Utility shifting/relocation
Attachment O6: Details of Construction Materials
Attachment O7: Spoil Management Plan
Attachment O8: Procedure for on-site Grievance Redressal Mechanism
Attachment O9: Procedure for information disclosure prior to start of works

[Appendix O.1: Site Layout Plan](#)

[Appendix O.A: Labour License](#)

[Appendix O.B: Workman Compensation](#)

[Appendix O.C: PUC Certificates](#)


[Appendix O.2: Contractor's OHS Policy Statement](#)

[Appendix O.3: Sample Grievance Registration Form](#)

Enclosure 1 : Health_Safety_Management_Plan of Pkg.N24PGS/02B_Bhangar II block,

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Attachment O1: Details of construction Work sites

1. Zone 18: OHR construction Site	
Location - Gopalpur	
A	Material storage <ul style="list-style-type: none"> • Cement • Steel • Fine Aggregate • Coarse Aggregate • Shuttering Material • Shuttering Oil
B	Plant & Machinery <ul style="list-style-type: none"> • Concrete Mixer – 1 Nos • Needle Vibrator – 1 Nos • Steel Cutter – 1Nos • Pile Driving Machine – 1Nos • DG (Less than 5KVA) – 1Nos
C	Site office – No
D	Laboratory – No
E	Security cabin – No
F	Labor welfare facilities at Site <ul style="list-style-type: none"> • Toilets • Drinking water • First Aid Box.
G	Site Layout Plan <i>Refer Appendix O.1</i>
H	Site photographs
Original site photographs	
OHR before Construction	

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Project facilities
at Site



Project Information Board




First Aid Box



Toilet for labours

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Attachment O2: Details of construction camp sites

1.	Labour accommodation, OHR site – Zone 18: Gopalpur
Location- Gopalpur, Gopalpur I,	
A	<p>Accommodation – For 13 Nos construction workers No women / families in the camp</p> <p>Facilities provided at camp site</p> <ul style="list-style-type: none"> • Type of living accommodation – Camp at OHR site • Accommodation provided for 13 workers • Cooking gas • Drinking water • Bath rooms • Toilets • Drainage system • First aid box
B	Camp photographs
Original site Photographs	
	Existing operator shelter on OHR site
Photos of camp and facilities provided	Same building is being used for labour accommodation

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	Toilet at labour Camp	Bottled drinking water

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Attachment O3: List of clearances & statutory requirements

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

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Attachment O4: Contractor's OHS Policy & Organization

1	Contractor agency has a OHS policy	Yes/ No
A	If yes, provide policy details 1. Policy statement: 2. EHS organization & responsibilities:	Yes [Refer Appendix O2] Yes
B	List safety risks anticipated in the project Work Area (OHR) • Trips and falls • Head injury from falling objects • Confined work space • Slope failure / trench collapse • Accidents from open excavations	-
C	List of personal protection equipment provided to workers • Boots- 13 nos. • Gloves-2 nos. • Helmet-15 nos. • Safety jacket- 15 nos. • Goggles- 1 nos.	Yes
D	Preventive Measures	
	Orientation of all workers on OHS	Done
	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 signages	Displayed on site
	Barricades (more than 1 m deep requires hard barricading)	Yes
2	Contractor emergency procedure	
A	<ul style="list-style-type: none"> 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	Contact information, staff and responsibilities for emergency situations	
	Designation	Staff name & contact
	Site Engineer	Mr. Suman Paul Mob: 7076274664
	EHS Supervisor	Mr. Saradindu Gain Mob: 9775459487
	Project Manager Representative	Ramesh Singh Mob: 8170011450
C	Reporting procedure in case of work accidents <ul style="list-style-type: none"> Details of accidents shall be recorded in accident register. Copy of accident register shall be submitted to client at the end of every month. In case of any major accidents client shall be informed immediately. 	Yes
D	Mandatory Reporting to Authorities	Yes
E	Prohibited Acts and Penalties for Violations	Yes

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Attachment O5: Utility shifting/relocation

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

Attachment O6: Details of Construction Materials

Sl. No	Material	Approximate quantity required (m ³) for project	Source	Indicate if source has all necessary government clearances
1	Aggregate	1000.1	Nalhati	Yes
2	Sand	520.59	Gopi Ballavpur	Yes
3	Steel (MT)	113.12	Approved supplier	Yes
4	Cement (MT)	345.04	Approved supplier	Yes

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Attachment O7: Spoil Management Plan

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	Spoil Management Plan	

SPOIL MANAGEMENT PLAN

WBDWSIP HAROA BLOCK

LOCATION: ZONE- 18 GOPALPUR (OHR WORK)

01	18.06.21/19				
REV	DATE	PREPARED BY	CHECKED BY	APPROVED BY DSISC	APPROVED BY PII

**Environmental Specialist, DSISC
North 24 Parganas
WBDWSI Project**

West Bengal Drinking Water Sector Improvement Project

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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 spoil from works.

2. SCOPE:

This Spoil Management Plan developed for OHR site in Zone (18). For the OHR site we do not anticipate any excess Spoil for disposal as all excavated material will be reused 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 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.

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5. IDENTIFICATION AND ASSESSMENT OF SPOIL ASPECTS AND IMPACTS:

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

6. SPOIL VOLUMES AND CHARACTERISTICS:

In this project, approx. Generation of excavated earth will be approx. 65 cum. There is no excess earth in this project as the same earth is to be used to fill the low land area.

As per report from soil expert, excavated earth is cohesive in nature.

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 any extra soils for disposal.

9. SPOIL TRANSPORTATION METHODOLOGY:

In this project, no need of transportation 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.

Expected Spoil (Soil) generated at GOPALPUR (Zone 18)

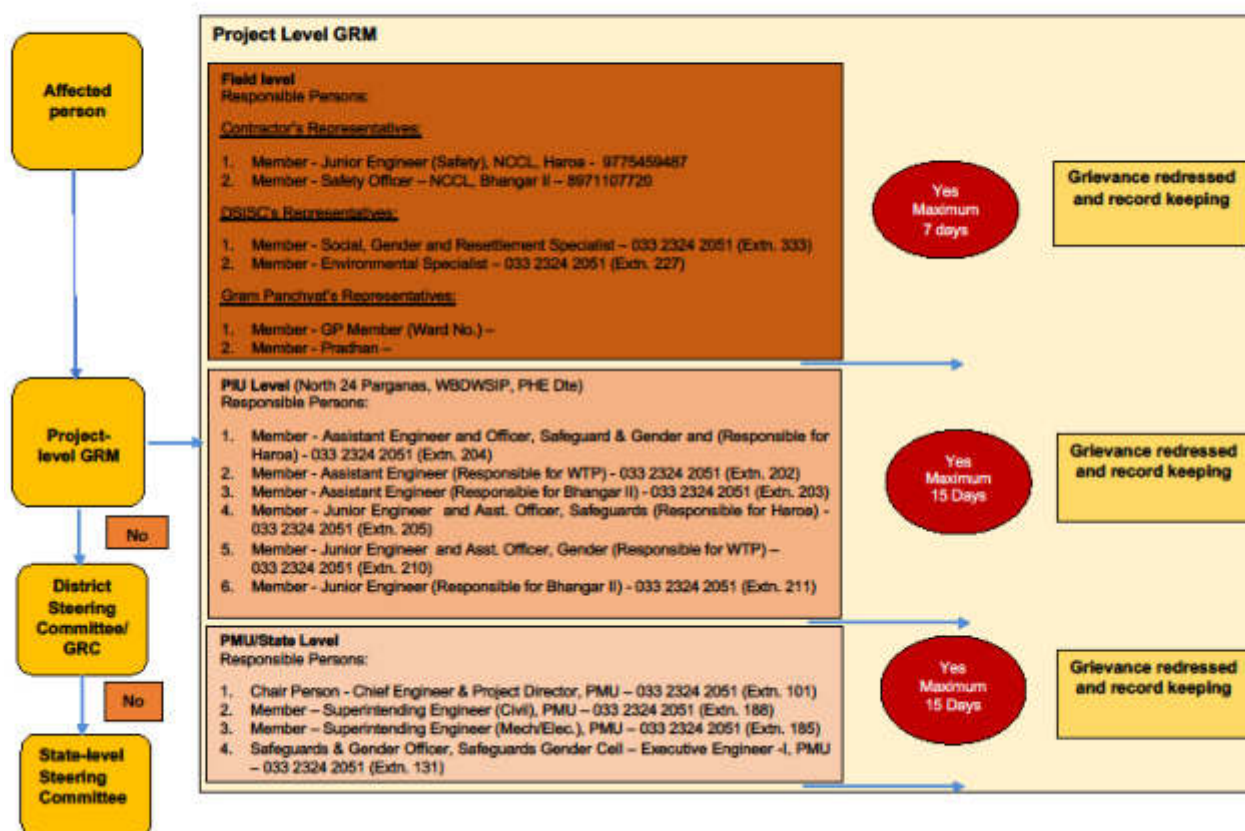
Sl. No.	ZONE	NAME OF STRUCTURE	EXCAVATON TOTAL QTY (C.U.M)	BACK FILLING TOTAL QTY (C.U.M)	REUSE EXECES QTY(C.U.M)
1.	1	Boundary wall	65	21	44

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Attachment O8: 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 Redress Mechanism



All grievances are recorded in site grievance register and resolved at the earliest. The sample grievance registration form is included in Appendix O3.

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 Panchayat level and work details including time period is informed.

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Appendix O.A: Tree Cutting Permission

Handwritten: 7/05/19, Requested to take further action in this regard, 12/06/19

Stamp: Government of West Bengal, Directorate of Forests, Office Of The Divisional Forest Officer, 24 Parganas (North) Division, Court Complex (Near Barasat Bus Stand), Barasat, North 24 Parganas District. Phone: (033) 2552 0968/Fax: (033) 2584-0241. Email: dfo24pgsn@yahoo.co.in

No. 489 (7) / 17-T-9 Dated, Barasat, the 03. 06. 2019.

From : The Divisional Forest Officer, 24-Parganas (North) Division

To : The Executive Engineer, North 24 Parganas, W/S Division-II, P.H.E. Dte. Utility Building, Tank No.3, 2nd Floor, Block – A1, AA-1A, New Town, Kol-156.

Sub : Felling permission of 11 number of trees for construction of overhead reservoir including water supply distribution network & metering works in Haroa Block, Mouza-Gopalpur, J.L. No.127, P.S.-Haroa under Gopalpur-I Gram Panchayat in the district of North 24-Parganas.

Ref : Your Memo No. 700/N-24PGSD-II, dated 10.05.2019 & Range Officer, Rampura S F Range memo no. 27/RMP-17-T, dated 29.05.2019.

Sir/Madam,

Enclosed please find a permission for felling of 11 number of trees for construction of overhead reservoir including water supply distribution network & metering works in Haroa Block, Mouza-Gopalpur, J.L. No.127, P.S.-Haroa under Gopalpur-I Gram Panchayat in the district of North 24-Parganas along with approved plantation plan.

You are requested to arrange to send a report on completion of plantation at an early date. Please arrange for maintaining the proposed plantation up to 5(five) years.

You are also requested to kindly explore the possibility of transplanting the trees as far as practical in the field if possible.

Enclro: As stated above.

Signature: Angshuman Mukhopadhyay
(Angshuman Mukhopadhyay, WBFS)
Divisional Forest Officer,
24 Parganas (North) Division.

No. (2) / 17-T-9 Dated, Barasat, the 03. 06. 2019.

Copy forwarded for information and taking necessary action to:-

1. The Prodhan, Gopalpur – I Gram Panchayet, Haroa, North 24 Parganas.
2. The Range Officer, RMP SF Range along with approved plantation plan.

You are requested to inspect the area of plantation after monsoon and report to the undersigned.

Signature: Sd/- Angshuman Mukhopadhyay
Divisional Forest Officer,
24 Parganas (North) Division.

Stamp: Inward No. 976, RECEIVED, Date 12/06/19, Time - 1:07 PM

Handwritten: DTL/AD/ Sharmila, For n.a. please, 12/06, MS/15

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Form III

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

Permit No. 5/PFO/2019-20,

Dated : 03.06.2019.

Whereas the applicant, Sri/Smt./Messrs. The Executive Engineer, North
24 Parganas W/S Division-II, P.H.E. Dte. UHUT,
Building, Tank No. 3, 2nd Floor, Block-A, A-1A,
GRN-19-2019-20-001510165-1, PPN-84164545, at 27.05.2019,
submitted an application with the prescribed fee on 27.05.2019 for permission for felling /
disposing of trees for the purpose of for construction of overhead reservoir including
water supply distribution network & metering
works in Haroa Block
(a) Location : Haroa Block
(b) Details of Plot(s) of Land : Mouza Gopalpur, PL No. 127,
Gopalpur-I, Gram Panchayat, under North 24
Parganas District

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

AND Whereas the purpose for which the trees are required to be felled is in conformity
with rule 4 (1) of the West Bengal Trees (Protection and Conservation in Non-Forest Areas)
Rules, 2006 :

AND Whereas an inquiry in the prescribed manner has been carried out on 27.05.2019
and the undersigned has examined the inquiry report with due care;

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

AND Whereas the applicant is a developer who has already obtained a Certificate of Clearance
No. dated Issued by the undersigned and sanction of the
building / construction plan by the sanctioning authority, viz
vide his letter No. Dated :

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

OR

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

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AND whereas the applicant has deposited the prescribed security amount for plantation of trees to the undersigned;

OR

The applicant has been exempted by the undersigned from the obligation of plantation of trees under sub-rule (2) of rule 6 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Rules, 2006 ;

OR

The applicant has expressed his inability to undertake the plantation to trees by himself and has deposited to the undersigned the amount for the designated agency as prescribed under sub-rule (3) of rule 6 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Rules, 2007.

OR

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

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

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

The undersigned also permits the applicant (not a developer) under the first proviso to section 8 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006, to plant only _____ number of trees instead of the number prescribed under sub-rule (1) of rule 6 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) rules 2007. OR permits the applicant to plant _____ number of trees over different plots(s) of land (as indicated in Condition No. 3 below) because (give reasons) _____, which is in conformity with sub-rule (2) of rule 6 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Rules, 2007;

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

This permit is non-transferable and valid only up to 03 (Three) months from the date of issue of this permit;

1. the applicant (if a developer) shall take up plantation of trees in accordance with the approved plantation plan and the Certificate of Clearance within July 19 month(s) from the date of sanction of the building / construction plan by the sanctioning authority;
2. The applicant (if not a developer) shall take up plantation of _____ number of trees over the Plot(s) No. _____ within _____ months from the date of issue of this permit;

Annexure To Form III

Permit Number 5/DEO/2019-20,

Date : 03.06.2019,

Number of Tree	Location (Plot No.)	Species	Diameter at Breast Height (in. cm)	Condition of the tree
11 NDR	for construction	coconut		
	along n.d. over-	mango		
	head access	Jack fruit		List enclosed.
	water including			
	water supply			
	distribution			
	network & metering			
	works in Haroa			
	Block, Mouza-			
	Gopalpur, T. NP-127			
	Gopalpur-T. G.P.			
	24 P.S. (N)			

ABSTRACT

Species	Total No. of Trees
A.
B. <u>COCONUT</u>
C. <u>MANGO</u>	<u>11 NDR</u>
D. <u>JACK FRUIT</u>
E.
Grand Total	<u>11 NDR</u>

Anand Kumar Mukhopadhyay
(Signature of the Competent Authority)

Name : DIVISIONAL FOREST OFFICER

Designation 24-Pardana (North) Division

Official Seal :

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3. As provided in section 10 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006, the applicant (if not a developer) shall start preparatory work for plantation within sixty days from the date for permit or the date of receipt of directions from the undersigned, as the case may be, and shall undertake plantation for trees in accordance with such directions;
4. The applicant shall inform the undersigned in writing immediately on completion of the plantation of trees;
5. The applicant shall, within a week of carrying out felling of trees, submit a report to the undersigned indicating the total number of logs and firewood produced against each species;
6. Stamps of the felled trees shall be retained for a least one month from the date of felling;
7. The felling and carriage of trees shall not be carried out after the sun-set and before the sun-rise.
8. This permission is subject to the provisions of the West Bengal forest (Establishment and Regulation of Saw Mills and Other Wood-based Industries) Rules, 1982 and The West Bengal Forest Produce Transit Rules, 1959.
9. This permit should be produced for inspection on demand to the undersigned or any of the authorities specified in sections 15 and 17 of the West Bengal Trees (Protection and Conservation in Non-Forest Areas) Act, 2006.

(Signature of the Competent Authority)

Name : *Angshuman Mondal*

Designation : Divisional Forest Officer
24 Parganas (North) Division

Official Seal :

* Strike off if not applicable.



Government of West Bengal
Office of the Executive Engineer
North 24 Parganas W/S Division-II, P.H.E. Dte.
Utility Building, Tank No.3, 2nd Floor, Block-AI, AA-IA, New Town, KOL-156
Phone No. : (033) 2324-2051, E-mail : ee_n24_div2@wbphed.gov.in

Plantation & maintenance cost details

Cost of plantation & maintenance of the plantation area is given below:

1st Year (2019) :

- i) Survey & cleaning of the area.
- ii) Digging of pits.
- iii) Purchase of Farm yard manure.
- iv) Filling up of pits with Farms yard manure & soil.
- v) Planting of saplings.
- vi) Watering.
- vii) Weeding hoeing.
- viii) Water 4 times a month.

Cost of seedling @ Rs.60.00 will be expenses per tree for 1st year. (55nos. tree X Rs. 60.00 = Rs.3,300.00)

2nd Year (2020) :

- i) Weeding.
- ii) Watering 6 times a month.
- iii) Casualty replacement.
- iv) Maintenance by mali.
- v) Watering 2 times a month during September'2020 to November'2020.

Cost of seedling @ Rs.35.00 will be expenses per tree for 2nd year. (55nos. tree X Rs. 35.00 = Rs.1,925.00)

3rd Year (2021) :

- i) Watering 4 times a month.
- ii) Casualty replacement.
- iii) Weeding
- iv) Maintenance by mali.
- v) Watering 2 times a month during September'2021 to November'2021.

Cost of seedling @ Rs.25.00 will be expenses per tree for 3rd year. (55nos. tree X Rs. 25.00 = Rs.1,375.00)

4th Year (2022) :

- i) Watering 4 times a month.
- ii) Weeding.
- iii) Maintenance by mali.
- iv) Watering 2 times a month during September'2022 to November'2022.

Cost of seedling @ Rs.25.00 will be expenses per tree for 4th year. (55nos. tree X Rs. 25.00 = Rs.1,375.00)

Approved.

Angshuman Mukhopadhyay
Divisional Forest Officer
24 Parganas (North) Division

J. Manoj
Executive Engineer,
N-24 Pgs. W/S Divn- II, P.H.E. Dte.

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8. Proposed plantation programme

In order to compensate for the proposed felling of eleven (11) trees: a) Coconut – 8, b) Mango – 2 and c) Jack fruit – 1, we intend to plant 55 trees (1:5 ratio) in the same area as per the directive of the forest department. The proposed composition of these trees is presented below.

- a) Coconut (*Cocos nucifera*) – 24
- b) Mango (*Mangifera indica*) – 16
- c) Jack fruit (*Artocarpus heterophyllus*) – 6
- d) Neem (*Azadirachta indica*) – 5
- e) Krishnachura (*Delonix regia*) – 4

The saplings of these trees will be planted during early monsoon and will be guarded and maintained for 5 years. The proposed plantation area is shown in the drawing attached.

11. Risk Assessment

The trees proposed to be felled for implementation of this project are all native and commonly available. As none of these species belong to IUCN Red List and can be easily replanted, the potential risk to local ecology due to this felling will be Low.

[Signature]

Tapan Dasgupta, D54300
North 24 Parganas
WB3/WSI Project

[Signature]
Executive Engineer
North 24 Parganas, WB3/WSI Project
P.O. Box, Dist. Court, of W.B.

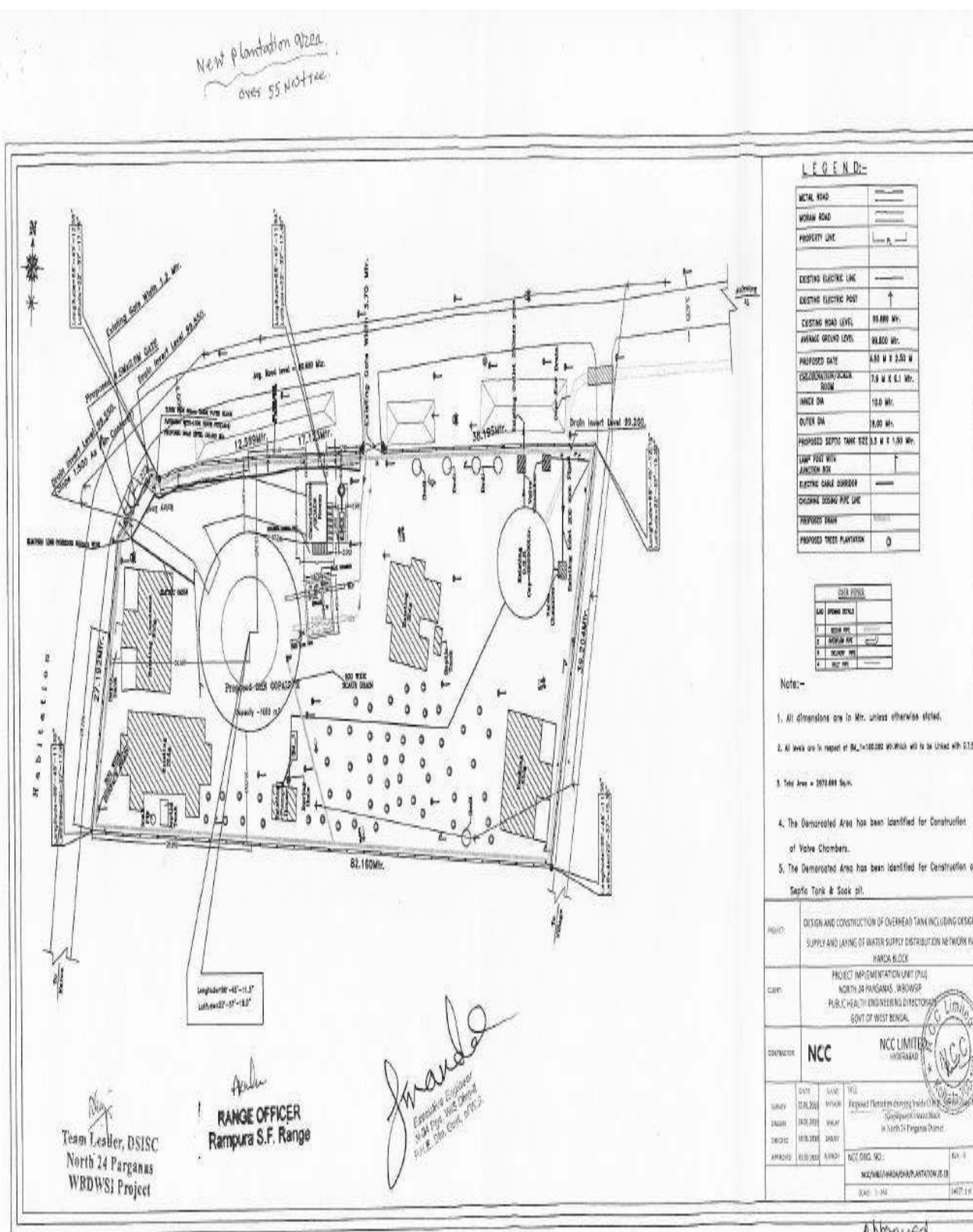
Marking List Of Trees Executive Engineer, N-24 PGS. W/S Divn.-II, P.H.E.Dte.

Inspection On 27-05-2019

TSL No	Name Of Trees	Girth(M)	Length(M)	Remarks
1	Mango	1.50	2	
2	Mango	0.90	1.50	
3	Jackfruit	0.90	2	
4	Coconut	0.70	3	
5	Coconut	0.75	2	
6	Coconut	0.80	3	
7	Coconut	0.70	2	
8	Coconut	0.65	2	
9	Coconut	0.70	3	
10	Coconut	0.75	2	
11	Coconut	0.80	2	

Total= 11 Nos trees

Submitted
At
27-05-19
RANGE OFFICER
Rampura S.F. Range



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Appendix O.B: Labour License

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GOVERNMENT OF WEST BENGAL
OFFICE OF THE ASSISTANT LABOUR COMMISSIONER, BASIRHAT
MOILAKHOLA MORE TAKI ROAD BASIRHAT 24 PARGANAS (NORTH) PIN - 743412

FORM VI
[See Rule 25(1)]

License No. : BST09/CLL/000029

Date : 05th Dec, 2018

Lic Fees	1000
S. Deposit	30000

LICENSE

License is hereby granted to **NCC LIMITED** at **Haroa, Block- Haroa , Basirhat, PS - Haroa , District - North 24 Parganas, Pin Code - 743425** under Section 12(1) of the Contract Labour(Regulation and Abolition)Act,1970 subject to the condition specified in Annexure.

The License shall remain till:-04th Dec, 2019

sd/-
Signature & Seal
Licensing Officer

RENEWAL

[Rule 29]

Renewal vide AIN No.	RENEWAL-LIC-009311-008372-17200-2019
1.Date of Renewal	02nd Dec, 2019
2.Fees paid for Renewal	₹ 1250 (One Thousand Two Hundred Fifty rupees only)
3.Date of Expiry	04th Dec, 2020

**SUPRIYA
BANDYOP
ADHYAY**

Digitally signed by
SUPRIYA
BANDYOPADHYAY
Date: 2019.12.02
12:41:53 +05'30'

P.E. Details:-

Office of the Executive Engineer, North-24 Parganas Water Supply Division-II, P.H.E. Dte.(BST09/CLR/000088)

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GOVERNMENT OF WEST BENGAL
OFFICE OF THE ASSISTANT LABOUR COMMISSIONER, BASIRHAT
MOILAKHOLA MORE TAKI ROAD BASIRHAT-24 PARGANAS (NORTH) PIN - 743412

FORM VI
(See Rule 25(1))

Licence No. : **BST09/CLL/000029**

Date : **05th Dec, 2018**

Lic Fees	1000
S. Deposit	30000

LICENCE

Licence is hereby granted to **NCC LIMITED** at **NCC Limited, Vill. Peara, P.O. + PS. Haroa, Pin.- 743425, Haroa, Block- Haroa, Basirhat, PS - Haroa, District - North 24 Parganas, Pin Code - 743425** 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: **04th Dec, 2019.**

**Supriya
Bandyopadhyay**

Digitally signed by
Supriya Bandyopadhyay
Date: 2018.12.05
10:54:45 +05'30'

Licensing Officer
Under the Contract Labour(RSA) Act, 1970

&
Assistant Labour Commissioner
Basirhat, North 24 Parganas

Establishment Information:

Office of the Executive Engineer, North-24 Parganas Water Supply Division-B, P.H.E. Div. (BST09/CLL/000008)

W. Site - Utility Building, Tank No.-2, 2nd Floor, Action Area-1A, New Town, Kolkata,

Haroa, Block - Haroa, Basirhat - 743425, PS - Haroa, North 24 Parganas

Work site exact location:

NCC LIMITED, VILL: PEARA, PO+PS: HAROA, PIN: 743425

Haroa, Block- Haroa, Basirhat

PS - Haroa, District - North 24 Parganas, Pin Code - 743425

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Appendix O.C: Workman Compensation



Workmen's Compensation Policy- Policy Schedule			
Policy Servicing Office :	Off Code-15, Future Generali India Insurance Co Ltd, 1st Floor D.No.7-1-21A, APDL Estate Opp Country Club, Begumpet, Hyderabad, Telangana, Pincode-500016, Tel. No : 040-66038000		
Policy No Insured :	2019-L0129168-FWC NCC Limited	Period of Insurance :	From 00:00 04/02/2019 To Midnight of 03/02/2020
Address :	WORKS IN HAROA BLOCK, North Twenty Four Parganas, West Bengal, 743425	Intermediary Name/Code :	INDIA INSURE RISK MANAGEMENT AND INSURANCE BROKING SERVICES-60001521
GSTIN Number :	19AAACN7335C1ZM	Telephone(Mob,Off,Home) :	4027822990/09892590738/4027822990
		Fax No & Email Id :	02256791416 / PADMAJA.SURYARAJAN@INDIAINSURE.COM
		FGI GSTIN Number :	36AABCF0191R1ZA
In consideration of the Policy holder named herein paying to the Future Generali India Insurance Company Limited (herein after called the Insurer) the premium as stated in the Schedule and in reliance upon the statements made by the Policy holder in the proposal including its attachments or otherwise, and the material incorporated therein, the Insurer agrees to provide insurance against loss/damage/liability or expense to the extent and in the manner herein provided subject to all terms, conditions, exceptions and warranties hereinafter set forth.			
Cn-Insurance Details		Schedule Of Premium (₹)	
Insurer	Share (In %)	Gross Premium	134,304.36
FUTURE GENERALI INDIA INSURANCE COMPANY LIMITED	100%	Goods and Service Tax	24,174.78
		Total Premium	158,479.00
Risk Details			
Nature of Business :	Design and Construction of overhead reservoir including water supply distribution and metering works in Haroa Block		
Location :	Design and Construction of overhead reservoir including water supply distribution and metering works in Haroa Block		
Contractor/Sub-Contractor Name :	NCC LTD		
No of Employees	Description of work done by Employees	Declared Wages during the Period of Insurance (₹)	
50	Highly Skilled workers	6,642,000.00	
50	Skilled workers	6,048,000.00	
50	Semi Skilled Workers	5,490,000.00	
50	Unskilled Workers	4,986,000.00	
Total		23,166,000.00	
Coverage Details			
The Policy covers Liability of the Insured under the following Law(s) shown as covered, subject to claim being otherwise admissible as per terms, conditions and exclusions of the Policy and subject to Limit of Indemnity as stipulated against each Law:			
Law	Limit of Indemnity	Coverage	
Employee's Compensation Act, 1923 and subsequent amendments thereof prior to the date of issue of this Policy	Subject otherwise, to the terms, conditions & Exclusions of the Policy, the amount of liability incurred by the Insured	Yes	
Common Law/ Fatal Accident		Yes	
Law(s)			
WC Act 1923 and subsequent amendment of the said Act prior to the date of issue of the policy provided that the insurance granted hereunder is not extended to include			
i. Any interest and/or penalty imposed on the insured on account of his/their failure to comply with the requirements laid down under WC Act 1923			
ii. Occupational disease of any kind.			
Additional Clauses, Conditions, Warranties & Exclusions			
Terrorism is excluded from coverage.			
No cover for Medical Expenses, Unless specifically allowed in the policy.			
No Cover for Medical Expenses.			
No Cover for occupational Diseases.			
Jurisdiction/ Territory : India			
Excluding War Risk, Blasting, Tunneling and Handling of Explosives			
Excluding loss arising out of installation and erection of live wiring.			
Warranted that safety practices are followed by the workers and safety gadgets are used by the workers while working in heights.			
Contractors and sub-contractors employees are covered.			
Important :- 1. All other Terms, Conditions and Exclusions as per attached Policy Wordings. 2. In case of payment by cheque, in the event of dishonour of cheque for any reason whatsoever, insurance provided under this document automatically stands cancelled from the inception irrespective of whether a separate communication is sent or not.			
For Future Generali India Insurance Co. Ltd.			
Receipt No :	Z9065378	 (Authorized Signatory)	
Date of Issue :	07/02/2019		
Place of Insurance :	Mumbai*		
*Address as mentioned below.			
Note: This document is digitally signed by Sharada Ramakrishnan, Authorised Signatory of Future Generali India Insurance Company Limited on 07/02/2019			

The stamp duty of Rs. 67.15 paid by Letter Of Authorisation No. CSD/118/2018/3179/18, dated 16/08/2018 Madhuk - 2017/C.R. 97/M-1, dated 09/01/2018.

Product UIN : IRDANI32P0012V01200708



Future Generali India Insurance Company Limited, Corporate & Registered Office: 6th Floor, Tower - 5, Indira Park Finance Center, Senapati Bapat

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Appendix O.D: PUC Certificates

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

Vehicle Registr. No. **JH-10Z-9621** WB-01: **D 5877301**

Date of Issue: **24-Aug-2019** Valid upto: **23-Feb-2020**

Pollution Level

CO (%)	0.181
HC (ppm)	119
SD (HSU)	

PUC Certificate issued by: **M/S ZAMAN ENTERPRISE** License No. and Seal: **94/AETC/2016/PETROL**

Signature: *[Signature]* Date: **24/08/19**

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

M/S ZAMAN ENTERPRISE
DHANPOTABAZAR, KHALISADY, HAROA, 24PGS(N)

Label Code: 00 License Number: 94/AETC/2016/PETROL Station Code: 00

PUC Number: P000000001694 Vehicle Type: 2 Wheeler

Name: M/S N.C.C. LIMITED Reg. No.: JH-10Z-9621

Address: Reg. Date: Apr-2011

Manufacturer: Hero MotoCorp

Model: CD-Dawn

Test Date/Time: 24-Aug-2019 10:55 Engine Type: 4 Stroke

Catalyst: No Odometer Rdn: 0

Engine Number: 21561

Chassis Number: 01148

Fuel →	Petrol			
	Regulation	Measured	Regulation	Measured
CO (%)	3.5	0.181		
HC* (ppm)	4500	119		
CO ₂ (%)		1.49		
O ₂ (%)		18.72		
NOx (ppm)		0		
RPM:		0		
OT (°C)		0		
AFR:		—		
Lambda:		—		
PEF:		0.501		
CO-Aet (%)		1.452		

Test Result: **PASS**

Grade: **A**

Valid Upto: **23-Feb-2020**

Test Fee: **Rs. 80**

* Read as RHC for LPG and NMHC for CNG.

Certified that this vehicle's emission levels are within the limits under 115(2) of CMV Rules, 1989.

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

Vehicle Registr. No.: **WB30AC7817** WB-01- **D 4261432**

Date of Issue: **29-Mar-2019** Valid upto: **28-Mar-20**

Pollution Level:

CO (%)	
HC (ppm)	
SO (HSU)	40.5%

PUC Certificate Issued by: **MILI ENTERPRISE**

Signature: *[Signature]* Kolkata-75

License No. and Seal: **151/AETC/2018**

WB-01-

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

MILI ENTERPRISE
BP RAJARHAT NEW TOWN, KOLKATA - 700156, WEST
PH: 9432010895

Transport Department

Label Code: **WB** License No.: **151/AETC/2018** Test Station Code: **0001**

PUC No.: **WB0001000382** Vehicle Reg No.: **WB30AC7817**

Name: **NCC LTD** Category: **car**

Address: **Mahindra**

Model: **BOLERO**

Date of Reg.: **2019**

Speedo mtr Rdg: **1094**

Mobile: **9735589348** Engine No.: **91913**

Date: **29-Mar-2019** Chassis No.: **10260**

Time: **10:54 AM** Emi Norms.: **BS IV or Onwards**

Fuel: **Diesel** Vehicle Type: **BS4 - 4 Wheeler**

Flushing Cycle Mean: **RPM Min: 0840 RPM Max: 1913**

SNo.	RPM min	RPM max	K m-l	HSU %	OTF C
1	0810	1630	01.20	40.5	041.00
2	0850	1830	01.21	40.6	041.00
3	0810	1740	01.20	40.5	041.00

Standard	Measured
K m-l	1.62 01.20
HSU %	50 40.5

Valid upto: **28-Mar-20**

Grade: **A**

Mean **0816 1733 01.20 40.5% 041.00** Test Fee: **100**

This vehicle meets Emission Standards Prescribed under Rule-115(2) of Central Motor Vehicle Rule's 1989.

Seal of Testing Centre

[Signature]
Authorized Signatory

INDUS DieselX 2.8.5/0000-0000/4550

**NCC
LIMITED**

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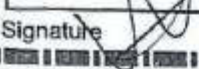
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HC (ppm)
SD (HSU)

B9104

PUC Certificate issued by:
 M/S - NATURAL WORLD

Signature 

License No. and Seal:
Natural World
N.H. 34, K.N. Road Back Side
Berhampore
Licence

Vehicle Pass

Transport
Department,
Govt of West

POLLUTION UNDER CONTROL CERTIFICATE
(under the West Bengal Motor Vehicle rule's 1989)

M/S:-NATURAL WORLD
N.H. 34, K.N ROAD BACK SIDE, BERHAMPORE,MSD

Label Code:WB

License No. : 1B/2008-2009

Test Station Code : 002

PUC No. : WB4685

Name : MD CHAND MAHAMMAD SEKH

Address : RANITALA
MSD

WB

Date:17/04/2019

Fuel: Diesel

Time : 1:29:14 P.M

Vehicle Reg No:WB 57B-9104

Category : EARTH MOVING

Make: TEREX EQUIPMENT

Model: EARTH MOVING

Date of Reg. 2014

Speedo Mtr Rdg: x

Engine No : 1420359

Chassis No: 409159

iN:	RPM min	RPM max	K.m-1	HSU%	QTP C
1	01263	06000	00.02	46.2	065.01
2	01242	06000	00.02	46.9	062.83
3	01221	06000	00.02	46.5	061.14
4	00541	06000	00.02	47.2	065.11

Valid upto:16/10/2019

Grade: A

Test Fees: 100

leF	01066	06000	00.02	47.2	064.13
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SAFE DRIVE, SAVE LIFE
NO ROUGH DRIVE

... Motor Vehicle

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Appendix O.2: Contractor OHS Policy Statement

NCC Ltd.	OH&S PLAN Design and Construction of Reservoir Including Water Supply Distribution Network and Metering Works in Haroa Block	Doc. No. NCC/ OHSP /01 Revision No. 00 Revision Date : 00 Page 10 of 58 Effective Date :
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NCC LIMITED

Health, Safety & Environment Policy

For Construction/Erection and Commissioning, the General Strategic Objectives Listed Below are Followed:

- A proactive, role model HSE at Site.
- All Sites related activities and Office Work will result in no one getting injured or made unwell.
- Early identification of hazards and risk and the decision or adequate measures.
- Reduction of negative impact on the neighborhood are the the environment in particular on fauna and flora to a minimum.
- Provide training in HSE knowledge and encourage continuous improvement and development of this.
- Continuous monitoring of the HSE performance.
- Promote the benefits of a healthy life-style amongst our employees.
- Report and investigate accidents and incidents to take lessons and prevents similar events occurring again.
- Preserve ecological balance and heritage.

Prepared by:	Copy No. :	Date of Issue:	Approved by:	Issued by:
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Appendix O.3: 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:	

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অভিযোগ/ পরামর্শ/ মন্তব্য/ প্রশ্নাদি লিপিবদ্ধ করার নমুনা পত্র

এই _____ প্রকল্পটি সৃষ্ট ও সুন্দরভাবে রূপায়নের উদ্দেশ্যে সকলের অভিযোগ, পরামর্শ, প্রশ্ন এবং মন্তব্য প্রত্যাশা করে। আপনার কোনও অভিযোগ থাকলে আপনার নাম ও যোগাযোগের ঠিকানা দিয়ে আমাদের সহযোগিতা করবেন, আপনার অভিযোগ / প্রশ্নের যথার্থ সদুত্তর ও আপনাকে পরিস্থিতি সম্পর্কে আমরা অবগত করবো।

যদি আপনি আপনার ব্যক্তি পরিচয় গোপন রাখতে চান তাহলে আপনার নামের উপরে " গোপনীয় " কথাটি লিখবেন।

ধন্যবাদান্তে

তারিখ	পঞ্জীকরণের বা Registration এর স্থানঃ ব্লক- গ্রাম পঞ্চায়েত- গ্রাম সংসদ-		
যোগাযোগের ঠিকানা / ব্যক্তিগত তথ্য			
নাম		লিঙ্গ	বয়স
বাড়ির ঠিকানাঃ গ্রাম- ফোন নং-	পাড়া- ই-মেইল-	পুরুষ - মহিলা-	
অভিযোগ/ পরামর্শ/ মন্তব্য/ প্রশ্নাদি- দত্তা করে কে, কি, কোথায় এবং কিভাবে - অভিযোগের এই বিশদ বিবরণ নিচে লিখুন-			
যদি কোন অতিরিক্ত কাগজ জুড়তে হয় / বা নোট থাকে বা চিঠি থাকে তাহলে এই ঘরে (✓) টীক দিন।			
আপনি কিভাবে আপনার অভিযোগ/ মন্তব্য বিষয়ে অবগত হতে চান ?			

শুধুমাত্র অফিসের ব্যবহারের জন্যঃ

যে আধিকারিক অভিযোগ জমা নিলেন তার নামঃ
কিভাবে জানানো হল (✓) টীক দিনঃ নোট বা চিঠির মাধ্যমে - ই-মেইল- মুখে মুখে বা টেলিফোনে-
যিনি অভিযোগ পাবার পর খতিয়ে দেখেছেনঃ (নাম / পদ)
কি ব্যবস্থা গ্রহণ করা হয়েছেঃ
ব্যবস্থা যা গৃহীত হয়েছে তা জানানো হয়েছে কি না - হ্যা / না
কিভাবে জানানো হলঃ

মন্তব্য-

প্রস্তুতকারক -

আনুমদনকারী -

তারিখ-

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SITE SPECIFIC ENVIRONMENTAL MANAGEMENT PLAN

WBDWSIP HAROA BLOCK

LOCATION: ZONE- 18 GOPALPUR (PIPELINE WORK)

0	02.09.2019				
REV	DATE	PREPARED BY	CHECKED BY	APPROVED BY DSISC	APPROVED BY PUJ

Environmental Specialist, DSISC
North 24 Parganas

West Bengal Drinking Water Sector Improvement Project

WBDWSIP Project

Assistant Engineer
PIU-I, N-24 Pgs, WBDWSIP, PHE Div.
Govt. Of West Bengal

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No	Package No : N24P/02A Zone 18- Pipeline works (Gopalpur) under PIU North 24 Parganas										
Package title	Design and Construction of Overhead Reservoir Including Water Supply Distribution Network and Metering Work in Haroa Block. SEMP is as per requirement of the Draft IEE covering package no. N24P/02A										
Contractor	NCC Pvt. Ltd.										
Date of Contract Award	19/09/2018										
Date of r works commencement	03/09/2019										
Contract period	Construction: 3 Years ; O&M: 2 Years										
SEMP Component	Laying of 91293 m of pipeline as detailed below.										
Demolition works	No demolition activity involved										
Project Area	Gopalpur I Gram Panchayat (GP) of Haroa Block.										
Project Description	Individual household water supply schemes for the project Gram Panchayats										
Household Connection	5583 (Estimated HH Connection)										
Non-Household Connection	All Commercial, Educational, Religious and Health institutions will get potable water from this project. Numbers are not yet identified										
Indicative Budget for EMP Implementation for the entire package	INR 21,42,500/-										
Project Components	As per project detailed design										
Gram Panchayat (GP): Gopalpur I											
Water Distribution Pipe Length (m) Summary											Total Length
Zone ID	Pipe Diameters(mm) <i>*External dia</i>										
	63*	75*	90*	110*	140*	200*	250	300	350	400	
Zone - H18	47494	14503	10243	7485	4947	5667	783	145	26		91293
Map of Distribution Network											
Refer Appendix – P.1											

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Details of contractors on-site-personnel and workers	Zone 18- Pipeline works (Gopalpur), Gopalpur I Gram Panchayat of Haroa Block.
Project Manager	Mr. Ramesh Singh; 8170011450
Site Engineer	Mr. Arijit Sing; 9732756414
Site Supervisor	Mr. Golam Murtaza; 8637383037
EHS Supervisor	Mr. Saradindu Gain; 9775459487
Archeological supervisor	NA
Skilled / semi-skilled workers	4 skilled and 0 Semi-skilled
Unskilled workers	29
Women workers	Nil
Workers – local / migrant	Local-Nil / Migrant-33 (from other districts of West Bengal)
Details of facilities	
Construction camps, (no's and locations)	Labor accommodation is in a rented house of Gopalpur Resource Centre, Gopalpur village (Ref. Attachment P2

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

Field/ Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
Infrastructure and Services	Electric poles and wires, water lines within proposed project area of Pipe laying.	<ul style="list-style-type: none"> Locations and operators of these utilities to be identified as per detailed design documents to prevent unnecessary disruption of services during construction phase. Prepare spoils (Waste) management plan. 	<ul style="list-style-type: none"> Contingency Plan has been developed by informing to emergency services like WBSEDCL, Telecommunication, local administration and police etc. First we are digging the trial pit manually, if any obstruction arise the same is removed as per direction of end user The pipe laying work to continue without disturbing the existing water pipelines and electric poles and overhead HT line. Flagman deployed on-site with Red and Green flags to control traffic and activity side by side. <p>Please refer Attachment P7 and P8 of this SEMP for site specific spoil management plan and traffic management plans.</p>	Contractor, PIU	DSISC observation at site and document checking	Project cost
Climate	The nature and intensity of rainfall events in an area, has implications for surface water management.	<ul style="list-style-type: none"> Seasonal climatic variations should be taken into account during scheduling of construction in the area. 	<ul style="list-style-type: none"> Excavation works schedule during dry season have been approved by PMU. If excavation work is to be conducted during rainy season then preventive measures will be taken like dewatering from the trench During laying use of Gumboot is a must. To avoid slip, trip and fall, no one is allowed within the barricading area. 	Contractor, PIU	DSISC observation at site	Project cost
Sources of Materials	Extraction of materials can disrupt natural land contours and vegetation resulting in accelerated erosion, disturbance in	<ul style="list-style-type: none"> Obtain construction materials only from government approved quarries with prior approval of PIU. On a monthly basis documentation on material obtained from each source 	No involvement of any new borrow area or quarry is anticipated. Excavated soil will be used for backfilling of trenches.	Contractor, PIU	DSISC document checking	Project cost

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Field/ Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
	natural drainage patterns, ponding and water logging, and water pollution.	(quarry/borrow pit) should be submitted. <ul style="list-style-type: none"> In case of involvement of new quarries/ borrow areas, prior steps will follow for all clearances and permissions as required under law. 				
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.	<ul style="list-style-type: none"> All necessary consents, permits, clearance, NOCs, etc prior to award of civil works should be obtained. All necessary approvals for construction to be obtained before start of construction. Acknowledge in writing and report on compliance consents, permits, clearance, NOCs etc. obtained. 	<ul style="list-style-type: none"> We have already received pipe laying permission from local authorities, electric connection, water source etc. NOC taken from Gram Pradhans for carrying out the activity. DG sets of capacity less than 5 kVA only being used. Refer Attachment P3 for relevant clearances. 	Contractor and PIU	DSISC observation at site and document checking	Project cost
Asbestos Cement Pipes	Health risk due to exposure to asbestos materials	Obtain details on location of underground Asbestos Cement pipes <ul style="list-style-type: none"> Locate the new pipe carefully to avoid encountering AC pipes Leave the Asbestos Cement pipes undisturbed in the ground. 	Pipelaying work will be continued without disturbing existing pipelines as recommended in the IEE No asbestos pipes encountered till now. In any circumstances the Asbestos Cement pipes will not be disturbed and left in situ. Subproject does not includes rehabilitation of existing infrastructure like replacement of AC pipes, tube wells, pumping stations and OHSRs.	Contractor and PIU	DSISC observation at site and document checking	Project cost

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

Field/ Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
Material handling	HDPE pipes gets heated during strong sun and at fusion weld joints.	Hand gloves, nose masks and related PPE's should be used by the workmen.	Continuous supervision regarding the use of safety gadgets is being ensured [Refer Attachment P4 for availability of PPEs at Site].	Contractor	PIU through DSISC observation at site and document checking	Project cost
Air Quality	Emissions from construction vehicles, equipment machinery and DG set used for excavation and pipe laying resulting in dust and increase in concentration of vehicle-related noxious compounds that causes pollution.	<ul style="list-style-type: none"> Following 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": <ul style="list-style-type: none"> Only vehicles having valid Pollution Under Control Certificates should be engaged in the project. Vehicles transporting (cement, sands etc) should be covered and cleaned prior to release at site, sprinkling of water and stabilization of soil for dust hazards to be carried out on site. Damp down soil, sand/ earth stockpiled at site should be maintained as per site condition. Control unnecessary movement of vehicle, public trespassing into work areas for control of dust generation. 	<ul style="list-style-type: none"> Only vehicles having valid PUC certificate have been engaged in the project. Sprinkling and dust screen arrangement have been made, and will be used when required. Workers has been instructed to always use dust mask while working in the trench. Site has been access controlled to prevent trespassing. Excavated earth piles will be maintained in such a way to minimise dust rising. Air quality monitoring has been conducted at following five places (Zone-2 Nebutala Abad, Zone-5 Tegharia, Zone-13 Chauhata, Zone-17 	Contractor	PIU through DSISC observation at site and document checking	Project cost

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			Shalipur and Zone-21 Haroa) in the Haroa Package.			
Drainage and hydrology	Due to the nature and locality of the projects there is unlikely to be any significant impacts on water resources within the immediate area.	<ul style="list-style-type: none"> The site surface should be engineered and shaped in such a way that rapid and efficient evacuation of runoff is achieved. 	<ul style="list-style-type: none"> We have ensured run-off through the site to a local drain does not contaminate existing drain and pond around the project site. Dewatering, if any and hydrotest water, will be also discharged to local drains after ensuring no contamination. 	Contractor	PIU through DSISC observation at site and document checking	<ul style="list-style-type: none"> Project cost
River/Surface water quality	Mobilization of settled silt materials, run-off from stockpiled materials, and chemical contamination from fuels and lubricants during construction works can contaminate nearby surface water quality.	<ul style="list-style-type: none"> Avoid stockpiling of earth fill; especially in monsoon season, cover it with tarpaulins or plastic sheets. Prioritize and implement reuse of excess spoil and materials in the construction work; if necessary, dispose in designated disposal area. Storage locations should have impervious floors Fuels and lubricants should be stored away from drainage and spillage protection should be provided. 	<ul style="list-style-type: none"> Excavated earth from dug trenches will be stacked along the pipeline and away from drainage locations/ nearby water bodies. Locations for fuels and lubricants store is away from drainage path and spill kits have been obtained. All excavated soils are expected to be utilized on-site only. No excess spoil anticipated. Surface water monitoring has been conducted already following two places (Zone-2 Nebutala Abad and Zone- 	Contractor	PIU through DSISC observation at site and document checking	<ul style="list-style-type: none"> Project cost

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			13 Chauhata) in the Haroa project as per Environmental Monitoring Plan recommended in the IEE.			
Biodiversity Fauna and Flora	Due to the nature and locality of the project there is unlikely to be any significant impacts on bio-diversity within the area.	<ul style="list-style-type: none"> For flora protection, tree cutting is strictly prohibited; if necessary then obtain permission through proper channel. For faunal activity, instruction should be given to everyone to inform site EHS Coordinator who should take appropriate action for their protection and safe rescue. 	<ul style="list-style-type: none"> Few trees are present along the existing alignment; cutting of tree strictly banned without regulatory clearance, if necessary trimming allowed. So far no faunal movement has been observed in this site. 	Contractor	PIU through DSISC observation at site and document checking	<ul style="list-style-type: none"> Project cost
Noise Levels	Increase in noise level due to earth-moving and excavation equipment, and the transportation of equipment, materials by labours	<ul style="list-style-type: none"> Minimize noise from construction equipment by using vehicle silencers, fitting jackhammers with noise-reducing mufflers minimising the sound impact to surrounding sensitive receptor; Horns not to be used unless it is necessary to warn other road users; Maintain maximum sound levels not exceeding 75 decibels (dbA). When measured at a distance of 1m from the vehicle/s. Baseline and construction phase Noise Monitoring (Day & Night time) should be conducted. 	<ul style="list-style-type: none"> Consultation made with local communities in advance of the work to identify and avoid working at sensitive times, such as religious and cultural festivals. Noise quality Monitoring has been conducted at following five places (Zone-2 Nebutala Abad, Zone-5 Tegharia, Zone-13 Chauhata, Zone-17 Shalipur and Zone-21 of Haroa) in the Haroa Package as per monitoring recommendation included in the IEE. DG set (less than 5 	Contractor	PIU through DSISC observation at site and document checking	<ul style="list-style-type: none"> Project cost

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			kVA) are used for connecting the HDPE lines. This is properly maintained and stopped immediately after completion of work.			
Landscape and Aesthetics character, and sense of place	Construction wastes as well as excess construction materials may show some impact.	<ul style="list-style-type: none"> • Prepare a construction waste management plan for site. • Hazardous wastes e.g. waste oil, empty paint cans, etc. should be stored on site and then shifted to a central location from where these will be disposed in accordance with Hazardous Wastes Management Rule, 2016. • As far as possible utilize the debris and excess soil in construction purpose such as for site filling and labelling purpose. • Avoid stockpiling excavated earth at the site for long time, if required, dispose at the site selected, in consultation with local GP preferably from barren, infertile land, which is located away from any sensitive area. 	<ul style="list-style-type: none"> • Spoil management plan has been developed [Refer Attachment P7] • Excavated earth is utilized for backfilling purpose. • Excavated earth will be backfilled on the same day. 	Contractor	PIU through DSISC observation at site and document checking	<ul style="list-style-type: none"> • Project cost
Occupational Health and Safety	Occupational hazards which can arise during work	Develop and implement a 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 etc.	<ul style="list-style-type: none"> • Based on NCC's OHS Plan, a site specific OHS plan has been developed. • Site OHS plan is attached at Attachment - P4. • All workers have been provided with and made to 	Contractor	PIU through DSISC observation at site and document checking	<ul style="list-style-type: none"> • Project cost

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		(c) documentation of work related accidents. (d) Providing qualified first aider at all times. (e) Providing to all workers reflective jacket, (f) Marking and providing sign boards for most of hazardous areas such as high voltage equipment, (g) Workers allowed exposure to noise level up to 85 dB (A) only.	use Personal Protective Equipment like helmet, gumboot, reflective jacket, gloves, nose mask and ear plugs; • H&S Training for all site personnel has been arranged and it will be continued; • H&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; • Documented procedures are followed for all site activities; • Work-related accidents will be recorded; • Bottled water provided at site. • First Aid box provided at working sites; • Clean eating areas provided to workers; • Moving equipment maintained with audible back-up alarms			
Socio Economic	Generation of temporary	• Employ local labour force as far as possible	• Local labours are employed, on priority,	Contractor	PIU through DSISC	• Project cost

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Employment	employment and increase in local revenue	<ul style="list-style-type: none"> Comply with labour laws 	whenever available. <ul style="list-style-type: none"> Refer Attachment P3 for documents relating to statutory compliances 		observation at site and document checking	
Environmental Management Plan (EMP) Implementation Training	Irreversible impact to the environment, workers, and community	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 labour laws, applicable environmental laws etc.	Training session for all employees has been arranged.	Contractor	PIU through DSISC observation at site and document checking	Project cost
Construction Camps	Temporary air, noise, land and water pollution from machine operation and after establishment of habitation	<ul style="list-style-type: none"> Camp sites shall be away from residential areas (100 m), sensitive areas (schools, hospitals, etc. 250 m), water bodies (500 m) and forests (more than 1 km) Use unused, vacant lands; no trees shall be cut Provide a proper fencing/compound wall Prepare a site layout plan & display at the site; uniformly label (name boards) all the places in the facility Entire site/facility area shall be provided with hard levelled surface as appropriate; no loose soil, slush, water logging etc., Living quarters and construction camps shall be provided with standard materials; no shacks or huts 	<ul style="list-style-type: none"> Before locating project offices, sheds, and construction plants we discussed with DSISC and within or nearest place has been selected, Till date no trees have been cut and no any destruction of property, irrigation and drinking water supply systems observed, Employees are trained for storage and handling of materials which can potentially cause soil contamination and water contamination; Solid waste managed according to the following preferential hierarchy: reuse, and disposal to 	Contractor	PIU through DSISC observation at site and document checking	<ul style="list-style-type: none"> Project cost

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		<ul style="list-style-type: none"> • Adequate lighting and ventilation • Provide drinking water, water for other uses, and sanitation facilities; drinking water should be regularly tested • Provide clear pathways for safe movement • Provide cooking fuel (cooking gas); and a separate safe place to cook; fire wood not allowed • Construct septic tanks and soak pit arrangement for wastewater disposal • Solid waste shall be properly managed – provide separate bins, compost biodegradable waste; sell recyclable waste. • According to rule and regulation camp will be vacated and restored to pre-project conditions before acceptance of work. 	<p>designated areas; Kitchen wastes collected in a dustbin then it is disposed outside from area to designated disposal location,</p> <ul style="list-style-type: none"> • Daily generated effluent disposed by arrangements already present in camp/ household. • Details of labour accommodation is presented in Attachment P2. 			
Archaeological and Cultural characteristics	Risk of archaeological chance finds	<ul style="list-style-type: none"> • Strictly follow the protocol for chance finds in any excavation work; • Construction staff members should be made aware of the likelihood of heritage resources being unearthed and of the scientific importance of such discoveries. 	<ul style="list-style-type: none"> • No archaeological chance finds are reported at project sites till date. • If there is any such finding, action will be taken up as per requirement. 	Contractor	PIU through DSISC observation at site and document checking	Project cost

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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	5 locations (to be selected during implementation to represent the overall project area)	<ul style="list-style-type: none"> PM₁₀, PM_{2.5} NO₂, SO₂, CO 	Once before start of construction Quarterly (yearly 4- times) during construction (2-year period considered)	Zone 02 - Nebutala Abada, Zone 05 - Kulti Uposasthya Kendra, Zone 13 - Paschim Bhaida Primary School, Zone 17 - Near Majanpur High School, Zone 21 - Haroa Market	225,000
Ambient noise	5 locations (same as air quality monitoring)	<ul style="list-style-type: none"> Day time and night time noise levels (24 hours) 	Once before start of construction Quarterly (yearly 4- times) during construction (2-year period considered)	Zone 02 - Nebutala Abada, Zone 05 - Kulti Uposasthya Kendra, Zone 13 - Paschim Bhaida Primary School, Zone 17 - Near Majanpur High School, Zone 21 - Haroa Market	67,500
Surface water quality	2 locations (to be selected during implementation)	<ul style="list-style-type: none"> pH, Oil and grease, Cl, F, NO₃, TC, FC, Hardness, Turbidity BOD, COD, DO, Total Alkalinity 	Once before start of construction Half yearly during construction (2- year construction period considered)	Zone-3 - Pond Water near Nebutola Abada, Zone 13 - Pond Water in Paschim Bhaida	40,000
Chance Finds	Areas protected by ASI or West Bengal State Archaeology Department	<ul style="list-style-type: none"> Chance finds protocol 	Before finalization of detailed design, consult with ASI or West Bengal State Archaeology Department		

Note: * It should be noted that every quarter only 5 locations in the entire package is monitored for air and noise while two locations are monitored for surface water every half-yearly. Locations are changeable with progress of work. Present locations as mentioned in mitigation tables are base line monitoring conducted as per EMP provision. The exact locations of these monitoring are reported in SEMR over google earth image. For all the packages conduct of these monitoring is responsibility of concerned Contractor and cost for such already budgeted in the IEE.

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Monitoring Locations on Google Earth



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List of Attachments

Attachment P1: Details of construction Work sites
Attachment P2: Details of construction camp sites
Attachment P3: List of clearances & statutory requirements
Attachment P4: Contractor's OHS Policy & Organization
Attachment P5: Utility shifting/relocation
Attachment P6: Details of Construction Materials
Attachment P7: Spoil Management Plan
Attachment P8: Traffic Management Plan
Attachment P9: Procedure for on-site Grievance Redressal Mechanism
Attachment P10: Procedure for information disclosure prior to start of works

Appendix P1: Map of Distribution Network
Appendix P.A: Gram Panchayat and other Authorities Permission
Appendix P.B: Labour License
Appendix P.C: Workman Compensation
Appendix P.D: PUC Certificates
Appendix P.2: Contractor's OHS Policy Statement
Appendix P.3: Sample Grievance Registration Form

Enclosure 1 : Health_Safety_Management_Plan of Pkg.N24PGS/02A_Haroa block,


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Attachment P1: Details of construction Work sites

1. Zone 18: Pipeline construction Site						
Location - Amta						
A	Material storage <ul style="list-style-type: none"> • Pipe • Fittings 					
B	Plant & Machinery <ul style="list-style-type: none"> ▪ Jointing Machin-1 Nos ▪ DG (less than 5 kVA) – 1 Nos 					
C	Site office – No					
D	Laboratory – No					
E	Security cabin – No					
F	Labor welfare facilities at Site <ul style="list-style-type: none"> • Drinking water • First Aid Box. 					
G	Road, agriculture land involvement and infrastructure facility No agricultural land involved No as such underground infrastructure available. No record for village road Details of pipeline, roads and construction methodology are presented below					
	Pipe Diameter (mm)	Length (m)	Width of trench (m)	Depth of Trench (m)	Width of roads (m)	Type of roads (earthen / BT / CC)
						Excavation method (manual/ mechanical)
	DI Pipes (954 m)					
	400 mm	---	0.4- 0.8	1.250	2.0-6.0	CC/BT/Earthen
	350 mm	26	0.4- 0.8	1.140	2.0-6.0	CC/BT/Earthen
	300 mm	145	0.4- 0.8	1.30	2.0-6.0	CC/BT/Earthen
	250 mm	783	0.4- 0.8	1.25	2.0-6.0	CC/BT/Earthen
	Distribution Network-HDPE Pipes (90,339 m)					
	200 mm	5667	0.4- 0.8	1.20	2.0-6.0	CC/BT/Earthen
	140 mm	4947	0.4- 0.8	1.14	2.0-6.0	CC/BT/Earthen
	110 mm	7485	0.4- 0.8	1.11	2.0-6.0	CC/BT/Earthen
	90 mm	10243	0.4- 0.8	1.09	2.0-6.0	CC/BT/Earthen
	75 mm	14503	0.4- 0.8	1.08	2.0-6.0	CC/BT/Earthen
	63 mm	47494	0.4- 0.8	1.06	2.0-6.0	CC/BT/Earthen

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Attachment P2: Details of construction camp sites

1.	Labour Accommodation, Pipeline site – Zone 18
Location- Gopalpur, Gopalpur I	
A	<p>Accommodation – For 33 construction workers. No women / families in the camp</p> <p>Facilities provided at camp site</p> <ul style="list-style-type: none"> • Type of living accommodation – Rented Accommodation • Accommodation provided for 33 workers • Cooking gas • Drinking water • Toilets • Drainage system • First aid box
B	Camp photographs
Original site Photographs	Not applicable as rented house is being used as labour accommodation.
Photos of camp and facilities provided	
	Labour accommodation

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	Toilet at accommodation	

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Attachment P3: List of clearances & statutory requirements

Sl. No.	Project related	Status
A	Construction/work related	
1	Gram Panchayat and Other Authorities Permission	Obtained [Refer Appendix – P.A]
B	Labour Safety / Welfare Related	
1	Labour license	Obtained [Refer Appendix – P.B]
2	Workmen Compensation	Obtained [Refer Appendix – P.C]
C	Safety / liability safety related	
1	Medical insurance	Tie-up with local hospital done
D	Others	
1	Fitness certificate for vehicles, equipment used in construction	Obtained
2	Pollution under control (PUC) certificates for vehicles and equipment	Available [Refer Appendix – P.D]
3	Driving licenses for drivers	Obtained
4	Insurance for vehicles / equipment, as required	Obtained

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Attachment P4: Contractor's OHS Plan & Organization

1	Contractor agency has a OHS plan	Yes/No
A	If yes, provide policy details: 1. Policy statement 2. OHS organization & responsibilities:	Yes [Refer Appendix P2] Yes
B	List safety risks anticipated in the project Area works (Pipeline Work) • Trips and falls • Slope failure / trench collapse • Road accidents Linear works (pipelines) • Accidents from open trenches	-
C	List personal protection equipment provided to workers • Boots- 35 nos. • Gloves-4 no. • Helmet-33 nos. • Safety jacket- 35nos. • Goggles- 2nos.	Yes
D	Preventive Measures	
	Orientation of all workers on OHS	Done
	Work permit system	No
	Toolbox/safety meetings (how often will this be conducted, what are the minimum topics)	Twice Weekly on work inside trench, firefighting, first-aid, housekeeping, etc.
	Safety signages	Displayed on site
	Barricades (more than 1 m deep requires hard barricading)	Wherever road width permits
2	Contractor emergency procedure	
A	Detail what steps/procedure to be adopted in emergency situation (eg. accidents) • In case of emergency 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.	Yes
B	Contact information, staff and responsibilities for emergency situations	
	Designation	Staff name & contact
	Site Engineer	Mr. Arijit Sing Mob: 9732756414
	EHS Supervisor	Saradindu Gain Mob: 9775459487
	Project Manager Representative	Mr. Ramesh Singh Mob: 8170011450
		Emergency responsibility
		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.
		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 shall be responsible for taking all necessary action and decisions.
C	Reporting procedure in case of work accidents • Details of accidents shall be recorded in accident register. • Copy of accident register shall be submitted to client at the end of every month. • In case of any major accident client shall be informed immediately.	Yes
D	Mandatory Reporting to Authorities	Yes
E	Prohibited Acts and Penalties for Violations	Yes

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Attachment P5: Utility shifting/relocation

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

Attachment P6: Details of Construction Materials

Sl. No	Material	Approximate quantity required (m3) for project	Source	Indicate if source has all necessary government clearances
1	Earth	26400.00	From trench cutting	Not required

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Attachment P7: Spoil Management Plan

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	Spoil Management Plan	

SPOIL MANAGEMENT PLAN

WBDWSIP HAROA BLOCK

LOCATION: ZONE- 1 AMTA (PIPELINE WORK)

0	15.07.2019				
REV	DATE	PREPARED BY	CHECKED BY	APPROVED BY OSISC	APPROVED BY PIU
Environmental Specialist, WBDWS North 24 Parganas West Bengal Drinking Water Sector Improvement Project WBDWSI Project					

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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 pipeline network laying in Zone (18).

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 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, there are some places which will be assessed and identified jointly along with

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design engineer. Main places where the excavated earth can be utilized are the trench of pipes and backfilling location.

6. **SPOIL VOLUMES AND CHARACTERISTICS:**

In this project, approx. Generation of excavated earth will be approx. 26400 cum. There is no excess earth in this project as the same earth is to be used to fill the low land area.

As per report from soil expert, excavated earth is cohesive in nature.

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 of transport as there is no extra soil for disposal.

10. **MONITORING, REPORTING, REVIEW AND IMPROVEMENTS:**

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

Expected Spoil generated at Gopalpur (Zone 18) for Pipe laying

Sl. No.	Dia(mm)	Length(m)	Width(m)	Depth(m)	Total(cum)
1	63	47508	0.25	1.063	12625.251
2	75	14500	0.25	1.075	3896.875
3	90	10240	0.25	1.09	2790.4
4	110	7484	0.25	1.11	2076.81
5	140	4947	0.25	1.14	1409.895
6	200	5669	0.25	1.2	1700.7
7	250	783	0.3	1.25	293.625
8	300	145	0.3	1.3	56.55
9	350	26	0.6	1.35	21.06
10	Extra for bend, joints etc				1528.834
11	Approx. generated total Spoil (Soil) at Gopalpur				26400.00

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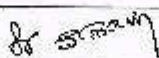


Attachment P8: Traffic Management Plan

NCC LIMITED	Design and Construction of Overhead Reservoir Including Water Supply Distribution Network and Metering Work in Haroa Block	Doc. No. NCC/ TMP /01 Revision No. 00 Revision Date : 00 Page 1 of 7 Effective Date :
	Traffic Management Plan	

TRAFFIC MANAGEMENT PLAN

WBDWSIP HAROA BLOCK

LOCATION: ZONE- 18 GOPALPUR (PIPELINE WORK)

0	02.09.2019				
REV	DATE	PREPARED BY	CHECKED BY	APPROVED BY DSISC	APPROVED BY PIU

West Bengal Drinking Water Sector Improvement Project

Environmental Specialist, DSISC
North 24 Parganas
WEDWSI Project

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1. **PURPOSE**

Main purpose is to prevent accident between vehicles, pedestrians and employees and also minimise inconvenience to the vehicle. To stop property damage and prevent injury to persons arising from site traffic and site transport.

2. **SCOPE**

The procedure is applicable for HDPE/DI pipe laying area for Zone – 18 GOPALPUR.

Pipelaying works not required full road closure but partial closure is required on all these roads and hence, traffic management plans have been developed accordingly.

3. **RESPONSIBILITY**

It is the responsibility of the Engineers and all department head to implement this procedure and ensure that delegated staff under their supervision carries it out.

4. **LEGAL REQUIREMENT**

The Building and Other Construction Workers (Regulations of Employment and Conditions of Service) Act 1996 and Central Rule 1998 Rule 48, 88 and 95, Motor Vehicle Act 1988

5. **REQUIREMENTS**

5.1 **General**

- All road works create inconvenience and are a potential hazard to the safety of all road users and those employed in carrying out the work.
- All the effects should be reduced to the minimum, and to ensure that the works are properly guarded, lighted and signed.
- A clear and early warning of any obstruction to all road users should be provided.
- All areas where work is going on should be clearly demarcated by proper barricading and entry into these areas should be restricted to only authorize personnel.
- Site access for local people.

5.2 **Planning Stage**

Particular attention should be given to:

- Traffic signs
- Cones
- Barriers
- Road hazard warning lights
- Information boards and
- Site lighting
- Site access for local people
- Consider necessity to traffic control systems such as temporary traffic lights or Stop/Go boards.
- Access should be planned to eliminate dangerous movements of site traffic (e.g. reversing of vehicles) and personnel (e.g. crossing dual carriageways).
- Provision of adequate lighting while working at night.
- All persons working on the road shall wear high visibility jackets.

5.3 **On Site**

The working space shall be defined and “A PLACE FOR EVERYTHING AND EVERYTHING IN ITS PLACE” to be follow.

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5.4 Operators/Drivers

- Only Experienced operators and drivers with valid licensed has been appointed.
- One copy of license has been collected.
- Refreshment training conducted for all operators and drivers.
- Operators/Drivers authentication and validation to operate the particular machinery displayed in the machine/vehicles.

5.5 Equipment

- Drivers undertake a daily visual inspection of their vehicles include steering, brakes, mirrors, lights, horn, tyres and windshield wipers.
- Safety Department along with Plant and machinery department shall check the vehicles as a monthly basis.
- All vehicles have reverse horns and it is in working properly.
- All vehicles, preventive maintenance schedule has to be followed strictly.

5.6 Roads

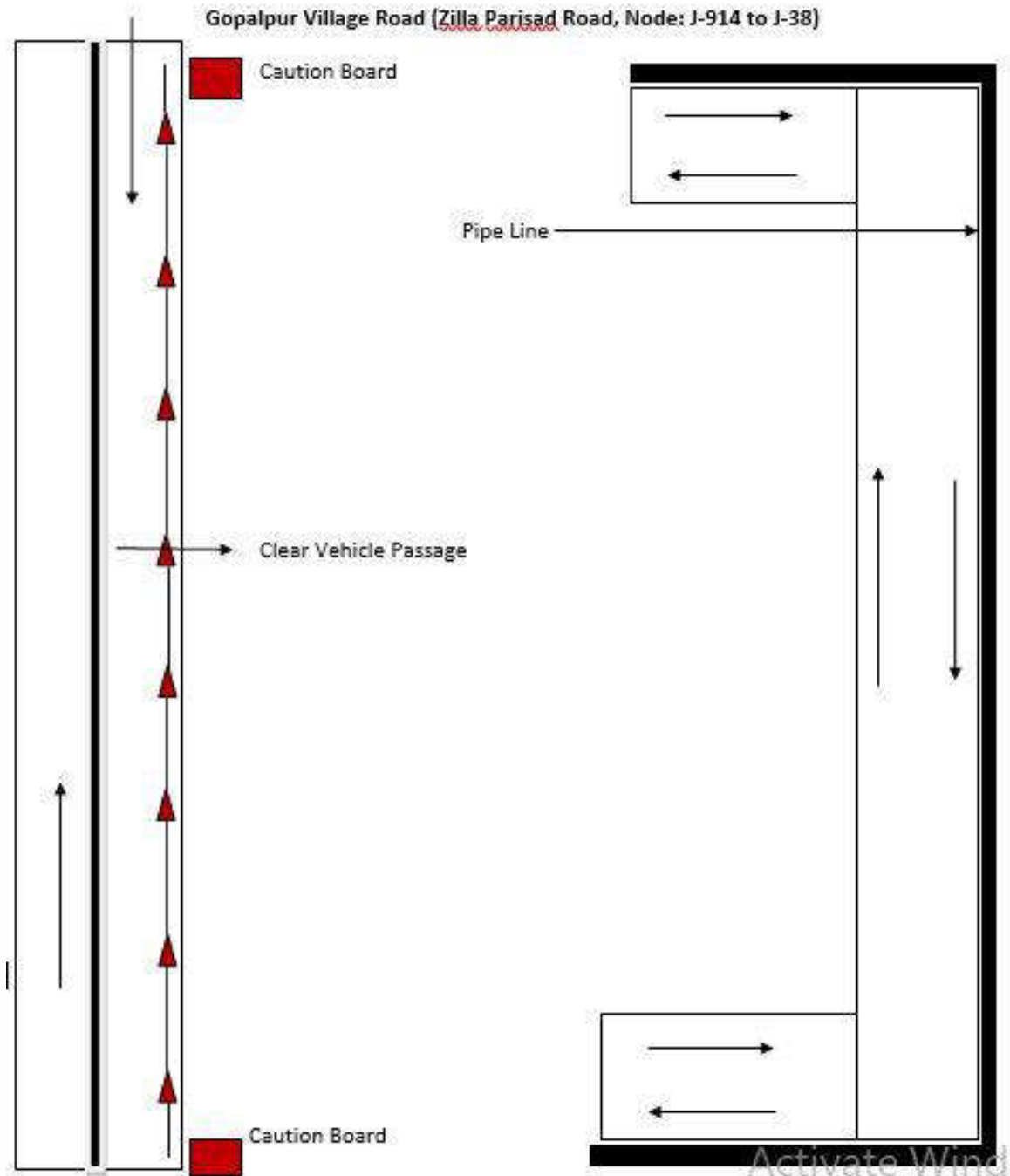
- For safe operation we are following the below safety measure:
- Safe width of road has been provided.
- Flag man deployed at every traffic point to control the vehicles and pedestrians.
- Speed limits 10km/hr within the working area.
- Caution board has been placed in every location within the site.
- Workers are working with reflective jacket as well as required PPE's.
- Road for use of pedestrian has been identified.
- Reverse horn used in vehicles.
- While reverse vehicles ensuring Banks man.
- Do's and Don'ts displayed at site office.

5.7 Loading and Unloading

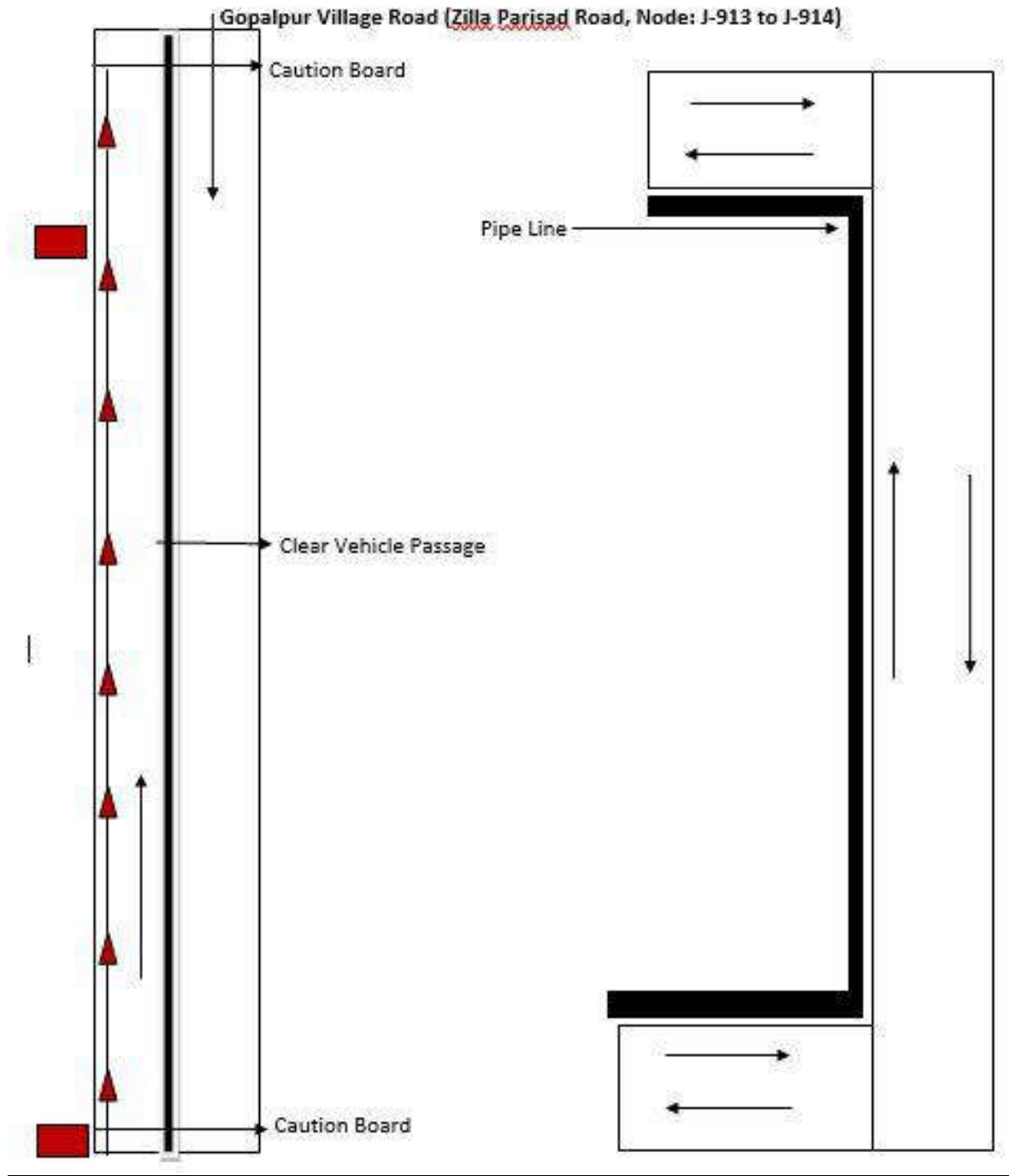
- Only authorized persons were engage loading/unloading.
- Materials loaded within the permitted safe weight limit (as per RTO) for the truck.
- Ensuring Soil and Sand loaded trucks are covered with tarpaulin while transporting
- During Toolbox talk's intimation has been delivered to all drivers/operators that when the drivers leave the driving seat, the engine of the truck shall be switched off, the gear engaged and parking brakes applied. On slopes, wheel blocks shall be applied.
- Helper has been provided with all vehicles.
- After unloading, the banks man ensuring that the tipper is lowered before moving.
- Turn buckle and side stoppers used while transporting as required.

5.8 Working Area

- The working area has been restricted from unauthorized entry.
- The working space has been defined.
- Particular attention has been taken in working area:
- Traffic signs
- Cones
- Barriers
- Information boards, and
- Site lighting
- Adequate lighting has been provided at working area at night.
- All persons wear high visibility jackets.



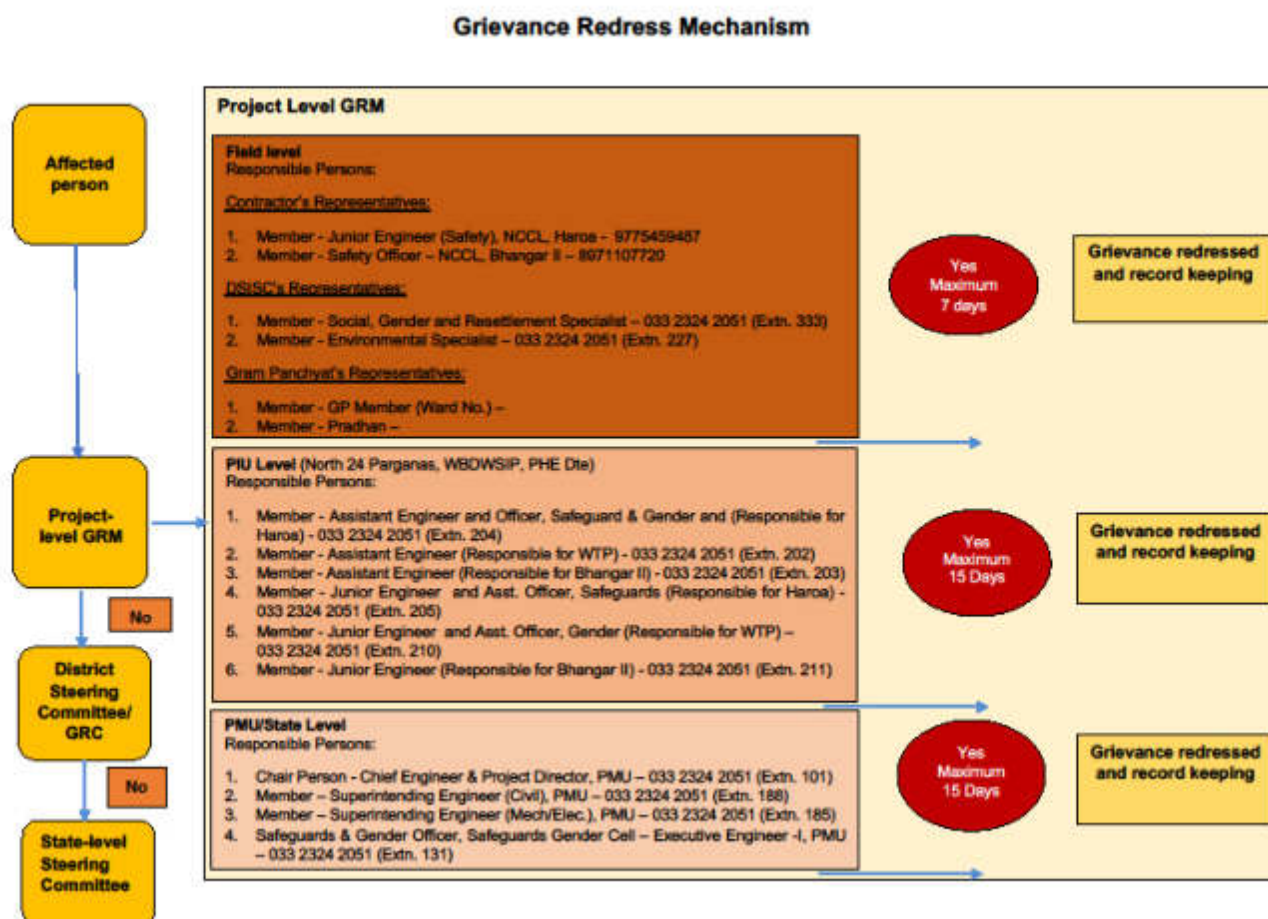
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Attachment P9: Procedure for on-site Grievance Redressal Mechanism

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.



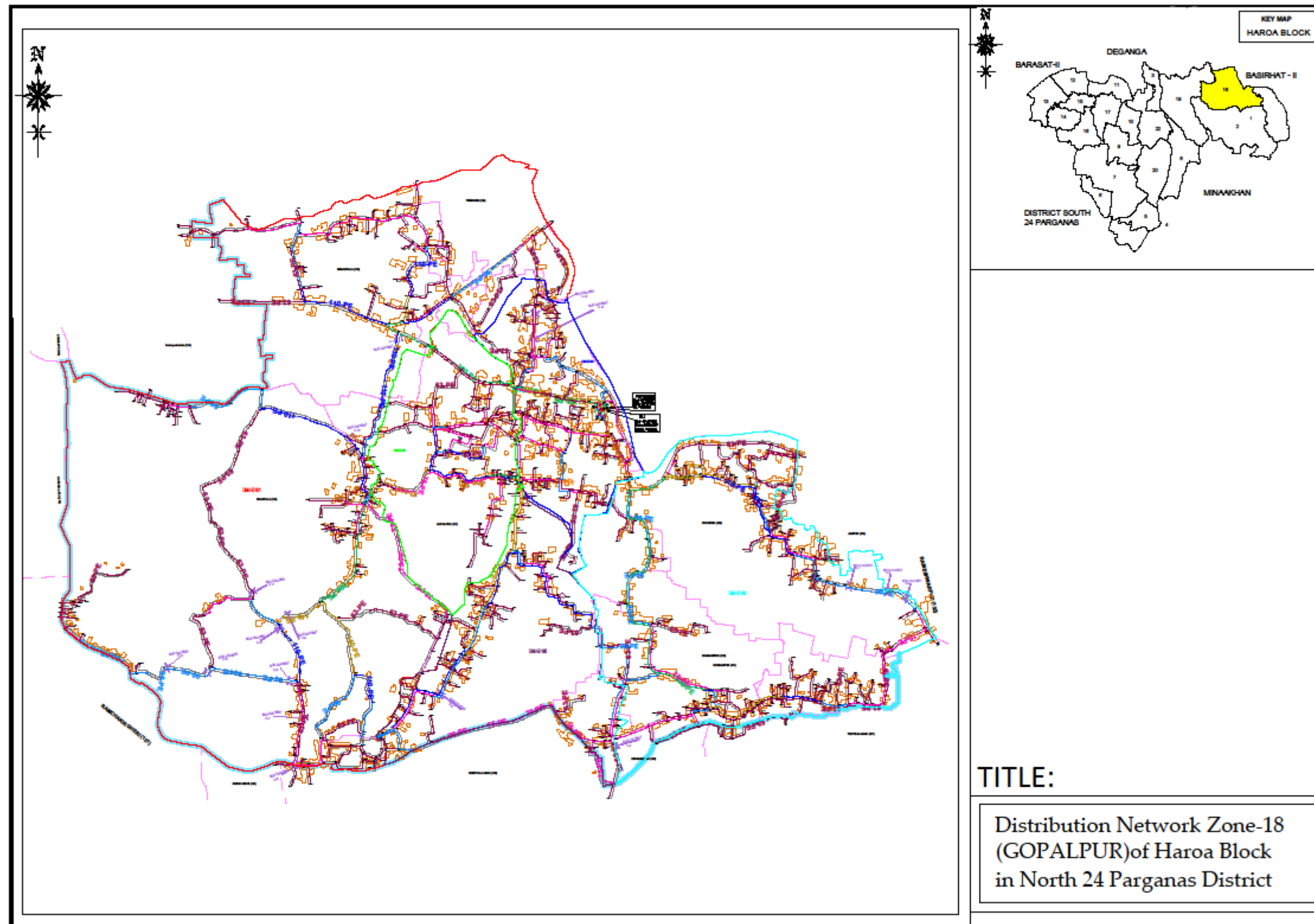
All grievances are recorded in site grievance register and resolved at the earliest. The sample grievance registration form is included in Appendix O3.

Attachment P10: 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.

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Appendix P.1: Map of Distribution Network



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Appendix P.A: Gram Panchayat and other Authorities Permission

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Government of West Bengal
Office of the Assistant Engineer
PIU-I, North 24 Parganas, WBDWSIP, PHE Dte.
Utility Building, Tank No. - 3, 2nd Floor, Block-A1
Action Area-1A, New Town, Kolkata-700156
Phone No. : (033) 2324-2051, E-mail : ac3.piun24p.adb@wbphed.gov.in

Memo No. _____/AE(C)PIU-I/N-24P,

Dated, New Town, the, _____

To

- 1) The Station Manager,
WBSEDCL, Haroa, North 24 Parganas.
- 2) The Sub Division Engineer,
BSNL, Basirhat Sub Division, North 24 Parganas.

Sub. : Design and construction of overhead reservoir including water supply distribution network & metering works in Haroa Block (Zone-18) Gopalpur.

This is to inform you that, PHE Dte. has undertaken a water supply project in the month of October-2018 in Haroa block with financial assistance of AD11. Now the entrusted agency will start laying distribution network from 02.09.2019 in Gopalpur-I, Gopalpur-II & Haroa Gram Panchayat along the road within ROW and a copy of drawing is herewith enclosed for your ready reference. In this matter you are requested to provide contract details of authorized person under your control regarding utilities & others if any during execution for smooth work progress without hampering existing services under your jurisdiction.

Your kind co-operation in this regard is requested.

Encls. : As stated.

**SD/-
S. BOSE**

Assistant Engineer

PIU-I, N-24 Pgs., WBDWSIP, PHE Dte.

Dated, New Town, the, _____

Memo No. _____/AE(C)PIU-I/N-24P,

Copy forwarded for information to :-

- 1) The Sarapati, Haroa Panchayat Samity.
- 2) The Executive Officer, Haroa Panchayat Samity.

**SD/-
S. BOSE**

Assistant Engineer

PIU-I, N-24 Pgs., WBDWSIP, PHE Dte.

Dated, New Town, the, 29/08/19.

Memo No. 17/2/4/AE(C)PIU-I/N-24P,

Copy forwarded for information to :-

- 1) The Superintending Engineer, PIU, North 24 Parganas, WBDWSIP, P.H.E. Dte.
- 2) The Executive Engineer, PIU, North 24 Parganas, WBDWSIP, P.H.E. Dte.
- 3) Sri Pintu Naskar J.R., PIU-I, North 24 Parganas, WBDWSIP, P.H.E. Dte.
- 4) The Team Leader, DSISC-North 24 Parganas, WBDWSIP.



**SD/-
S. BOSE**

Assistant Engineer

PIU-I, N-24 Pgs., WBDWSIP, PHE Dte.

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Appendix P.B: Labour License



GOVERNMENT OF WEST BENGAL
OFFICE OF THE ASSISTANT LABOUR COMMISSIONER , BASIRHAT
MOILAKHOLA MORE TAKI ROAD BASIRHAT 24 PARGANAS (NORTH) PIN - 743412

FORM VI [See Rule 25(1)]

License No. : BST09/CLL/000029

Date : 05th Dec, 2018

Lic Fees	1000
S.Deposit	30000

LICENSE

License is hereby granted to **NCC LIMITED** at **Haroa, Block- Haroa , Basirhat, PS - Haroa , District - North 24 Parganas, Pin Code - 743425** under Section 12(1) of the Contract Labour(Regulation and Abolition)Act,1970 subject to the condition specified in Annexure.

The License shall remain till-04th Dec, 2019

sd/-
Signature & Seal
Licensing Officer

RENEWAL

[Rule 29]

Renewal vide AIN No.	RENEWAL-LIC-009311-008372-17200-2019
1.Date of Renewal	02nd Dec, 2019
2.Fees paid for Renewal	₹ 1250 (One Thousand Two Hundred Fifty rupees only)
3.Date of Expiry	04th Dec, 2020

**SUPRIYA
BANDYOP
ADHYAY**

Digitally signed by
SUPRIYA
BANDYOPADHYAY
Date: 2019.12.02
12:41:53 +05'30'

P.E. Details:-

Office of the Executive Engineer, North-24 Parganas Water Supply Division-II, P.H.E. Dte.(BST09/CLR/000088)

NCC LIMITED	Design and Construction of Overhead Reservoir Including Water Supply Distribution Network and Metering Work in Bhargar-II Block	Doc. No. NCC/ SEMP /01 Last Revision No. 00 Last Revision Date : 00 Page 82 of 89 Original Issue Date :
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GOVERNMENT OF WEST BENGAL
OFFICE OF THE ASSISTANT LABOUR COMMISSIONER, BASIRHAT
MOILAKHOLA MORE TANK ROAD BASIRHAT-24 PARGANAS (NORTH) PIN - 743412

FORM VI
(See Rule 35(1))

Licence No. : BST09/CLL/000029

Date : 05th Dec, 2018

Lic Fees	1000
\$ Deposit	10000

LICENCE

Licence is hereby granted to NCC LIMITED at NCC Limited, Vill. Pesra, P.O. + PS. Haroa, Pin.- 743425, Haroa, Block- Haroa, Basirhat, PS - Haroa, District - North 24 Parganas, Pin Code - 743425 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: 04th Dec, 2019.

**Supriya
Bandyopadhyay**

Digitally signed by
Supriya Bandyopadhyay
Date: 2018.12.05
10:54:45 +05'30'

*Licensing Officer
Under the Contract Labour(R&A) Act, 1970*

&
Assistant Labour Commissioner
Basirhat, North 24 Parganas

Establishment Information:

Office of the Executive Engineer, North-24 Parganas Water Supply Division-II, P.H.E. Div. (BST09/CLL/000008)

W.Site - Utility Building, Tank No.-2, 2nd Floor, Action Area-1A, New Town, Kolkata,

Haroa, Block - Haroa, Basirhat - 743425, PS - Haroa, North 24 Parganas

Work site exact location:

NCC LIMITED, VILL: PESRA, PO+PS: HAROA, PIN: 743425

Haroa, Block- Haroa, Basirhat

PS - Haroa, District - North 24 Parganas, Pin Code - 743425

NCC LIMITED	Design and Construction of Overhead Reservoir Including Water Supply Distribution Network and Metering Work in Bhargar-II Block	Doc. No. NCC/ SEMP /01
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Appendix P.C: Workman Compensation



Workmen's Compensation Policy- Policy Schedule			
Policy Servicing Office : Off Code-15, Future Generali India Insurance Co Ltd, 1st Floor D.No.7-1-21A, APDL Estate Opp Country Club, Begumpet, Hyderabad, Telangana, Pincode-500016, Tel No : 049-66038600			
Policy No : 2019-L0129168-FWC Insured : NCC Limited	Period of Insurance : From 00:00 04/02/2019 To Midnight of 03/02/2020 Intermediary Name/Code : INDIA INSURE RISK MANAGEMENT AND INSURANCE BROKING SERVICES-60001521 Telephone (Mob, Off, Home) : 4027822990/09892590738/4027822990 Fax No & Email Id : 02256791416 / PADMAJA.SURYARAJAN@INDIAINSURE.COM PGI GSTIN Number : 36AABCF0191R1ZA		
Address : WORKS IN HAROA BLOCK, North Twenty Four Parganas, West Bengal, 743425			
GSTIN Number : 19AAACN7335C12M			
In consideration of the Policy holder named herein paying to the Future Generali India Insurance Company Limited (herein after called the Insurer) the premium as stated in the Schedule and in reliance upon the statements made by the Policy holder in the proposal including its attachments or otherwise, and the material incorporated therein, the Insurer agrees to provide insurance against loss damage liability or expense to the extent and in the manner herein provided subject to all terms, conditions, exceptions and warranties herein first set forth.			
Co-Insurance Details		Schedule Of Premium (₹)	
Insurer	Share (In %)	Gross Premium	134,304.36
FUTURE GENERALI INDIA INSURANCE COMPANY LIMITED	100%	Goods and Service Tax	24,174.78
		Total Premium	158,479.00
Risk Details			
Nature of Business : Design and Construction of overhead reservoir including water supply distribution and metering works in Haroa Block K Location : Design and Construction of overhead reservoir including water supply distribution and metering works in Haroa Block K Contractor/Sub-Contractor Name : NCC LTD			
No of Employees	Description of work done by Employees	Declared Wages during the Period of Insurance (₹)	
50	Highly Skilled workers	6,642,000.00	
50	Skilled workers	6,048,000.00	
50	Semi Skilled Workers	5,490,000.00	
50	Unskilled Workers	4,986,000.00	
Total		23,166,000.00	
Coverage Details			
The Policy covers Liability of the Insured under the following Law(s) shown as covered, subject to claim being otherwise admissible as per terms, conditions and exclusions of the Policy and subject to Limit of Indemnity as stipulated against each Law:			
Law	Limit of Indemnity	Coverage	
Employee's Compensation Act, 1933 and subsequent amendments thereon prior to the date of issue of this Policy	Subject otherwise, to the terms, conditions & Exclusions of the Policy; the amount of liability incurred by the Insured	Yes	
Common Law/ Fatal Accident		Yes	
Law(s)			
WC Act 1923 and subsequent amendment of the said Act prior to the date of issue of the policy provided that the insurance granted hereunder is not extended to include i. Any interest and/or penalty imposed on the insured on account of his/their failure to comply with the requirements laid down under WC Act 1923 ii. Occupational disease of any kind.			
Additional Clauses, Conditions, Warranties & Exclusions			
Terrorism is excluded from coverage. No cover for Medical Expenses, Unless specifically allowed in the policy. No Cover for Medical Expenses. No Cover for occupational Diseases. Jurisdiction/ Territory : India Excluding Wet Risk, Blasting, Tunneling and Handling of Explosives Excluding loss arising out of installation and erection of live wiring. Warranted that safety practices are followed by the workers and safety gadgets are used by the workers while working in heights. Contractors and sub contractors employees are covered.			
Important:- 1. All other Terms, Conditions and Exclusions as per attached Policy Wordings. 2. In case of payment by cheque, in the event of dishonour of cheque for any reason whatsoever, insurance provided under this document automatically stands cancelled from the inception irrespective of whether a separate communication is sent or not.			
For Future Generali India Insurance Co. Ltd.			
Receipt No : Z9065378 Date of Issue : 07/02/2019 Place of Issuance : Mumbai* *Addresses mentioned below.	 (Authorized Signatory)		
Note: This document is digitally signed by Sharada Ramakrishnan, Authorised Signatory of Future Generali India Insurance Company Limited on 07/02/2019			

The stamp duty of Rs 67.15 paid by Letter Of Authorisation No.CSD/118/2018/3179/18, dated 16/08/2018 Madras - 2017/C.R.97/M-1, dated 09/01/2018.

Product IJIN : IJDANI32P0012V01200708



Future Generali India Insurance Company Limited, Corporate & Registered Office: 6th Floor, Tower - 3, Indiabulls Finance Center, Senapati Bapat

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Appendix P.D: PUC Certificates

Vehicle Registr. No. **WB26T5753** WB-01-**D 6148795**

Date of Issue: **04/06/2019** Valid upto **03/12/2019**

	Pollution Level	
	CO (%)	
	HC (ppm)	
	SD (HSU)	1.45

PUC Certificate issued by: **MIRA SERVICE STATION** License No. and Seal: **0004/AETC/BST/II**

Signature: **Plot No - 2, Block-AH**
New Town, Rajarhat
Kolkata-700 156

COMPUTERISED EMISSION TEST CERTIFICATE

Authorised Transport Dept. of West Bengal
MIRA SERVICE STATION
PLOT-2,BLOCK-AH,NEW TOWN,KOLKATA-156

Liscence Number :- **0004/AETC/BST/II**

I.D. Number :- **001406** Date :- **04/06/2019**

Year Of Registration :- **2015** Time :- **4:08:58 PM**

Vehicle Registration Number :- **WB26T5753** Test Fee :- **100**

Speedometer :- **0**

Engine Number :- **E14884**

Chassis Number :- **E37419**

Vehicle Color :- **OTH**

Vehicle Make :- **MAHINDRA**

Vehicle Model :- **SCORPIO** Contac :- **9564932617**

Type Of Engine :- **4S** Oil Temperature :- **34**

Type of Vehicle :- **4W** Fuel :- **Diesel**

Owner :- **M S NCC LTD** Result :- **Pass**

Driver :- Valid Upto :- **03/12/2019**

	Ideal RPM	Max RPM	K Value	HSU Value	Oil Temp
1	800	2330	0.03	1.41	34
2	800	2580	0.03	1.41	34
3	790	2430	0.04	1.54	34
Avg	796.00	2486.00	0.03	1.45	

Name of Authorise Signatory with Seal of Testing Center

MIRA SERVICE STATION
Plot No - 2, Block-AH
New Town, Rajarhat
Kolkata-700 156

**NCC
LIMITED**

**Design and Construction of Overhead Reservoir
Including Water Supply Distribution Network and
Metering Work in Bhargar-II Block**

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

Vehicle Registr. No. **WB-52F-6123** WB-01-**D 5877303**

Date of issue: **24-Aug-2019** Valid upto: **23-Feb-2020**

Pollution Level

CO (%)	0.406
HC (ppm)	41
SD (HSU)	

PUC Certificate issued by:
M/S ZAMAN ENTERPRISE

License No. and Seal:
94/AETC/2016/PETROL

Signature: *[Signature]*
24/08/19

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

WB-01-**D 5877303**

M/S ZAMAN ENTERPRISE
DHANPOTABAZAR, KHALISADY, HARDA, 24PGS(N)

Label Code: 00 License Number: 94/AETC/2016/PETROL

PUC Number: P000000001696

Name: **N.C.C. LTD**

Address:

Vehicle Type: 2 Wheeler

Reg. No.: **WB-52F-6123**

Reg. Date: **Aug-2007**

Manufacturer: **HERO HONDA**

Model: **CD DELUX**

Engine Type: 4 Stroke

Odometer Rdn: 0

Engine Number: 3413

Chassis Number: 7348

Test Date/Time: **24-Aug-2019 15:30**

Catalyst: No

Fuel	Regulation	Measured	Regulation	Measured
CO (%)	3.5	0.406		
HC* (ppm)	4500	41		
CO2 (%)		1.45		
O2 (%)		18.54		
NOx (ppm)		0		
RPM:		0		
OT (°C):		0		
AFR:		-		
Lambda:		-		
PEF:		0.501		
CO-Act (%)		3.274		

Test Result: **PASS**

Grade: **A**

Valid Upto: **23-Feb-2020**

Test Fee: **Rs. 80**

* Read as RHC for LPG and NMHC for CNG

Certified that this vehicle's emission levels are within the limits under 115(2) of CMV Rules, 1989.

Test Centre Stamp

2019 Embos

23.10


Authorized Signature

[Signature]
24/08/19

NCC LIMITED	Design and Construction of Overhead Reservoir Including Water Supply Distribution Network and Metering Work in Bhargar-II Block	Doc. No. NCC/ SEMP /01
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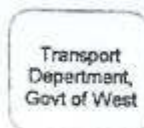
HC (ppm) SD (HSU) **B9104**

PUC Certificate issued by: M/S-NATURAL WORLD

Signature 

License No. and Seal: **Natural World**
19/08/2008-2009
N.H. 34, K.N. Road Back Side
Berhampore
Licence

Vehicle Pass



POLLUTION UNDER CONTROL CERTIFICATE
(under the West Bengal Motor Vehicle rule's 1989)

M/S-NATURAL WORLD
N.H. 34, K.N ROAD BACK SIDE, BERHAMPORE,MSD

Label Code:WB

License No. : 19/2008-2009

Test Station Code : 002

PUC No. : WB4685

Name : MD CHAND MAHAMMAD SEKH

Address : RANITALA

MSD

WB

Date:17/04/2019

Fuel: Diesel

Time : 1:29:14 P.M

Vehicle Reg No:WB 57B-9104

Category : EARTH MOVING

Make: TEREX EQUIPMENT

Model: EARTH MOVING

Date of Reg. 2014

Speedo Mtr Rdg. x

Engine No : 1420359

Chassis No: 409159

iN:	RPM min	RPM max	K.m-1	HSU%	QTP C
1	01263	06000	00.02	46.2	065.01
2	01242	06000	00.02	46.9	062.83
3	01221	06000	00.02	46.5	061.14
4	00541	06000	00.02	47.2	065.11

Valid upto:16/10/2019

Grade: A

Test Fees: 100

leE	01066	06000	00.02	47.2	064.13
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SAFE DRIVE, SAVE LIFE
NO ROUGH DRIVE

Motor Vehicle

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Appendix P.2: Contractor OHS Policy Statement

Appendix P.3: 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:

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Whether action taken disclosed:	Yes No
Means of disclosure:	

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অভিযোগ/ পরামর্শ/ মন্তব্য/ প্রশ্নাদি লিপিবদ্ধ করার নমুনা পত্র

এই _____ প্রকল্পটি সৃষ্ট ও সুন্দরভাবে রূপায়নের উদ্দেশ্যে সকলের অভিযোগ, পরামর্শ, প্রশ্ন এবং মন্তব্য প্রত্যাশা করে। আপনার কোনও অভিযোগ থাকলে আপনার নাম ও যোগাযোগের ঠিকানা দিয়ে আমাদের সহযোগিতা করবেন, আপনার অভিযোগ / প্রশ্নের যথার্থ সদুত্তর ও আপনাকে পরিস্থিতি সম্পর্কে আমরা অবগত করবো।

যদি আপনি আপনার ব্যক্তি পরিচয় গোপন রাখতে চান তাহলে আপনার নামের উপরে " গোপনীয় " কথাটি লিখবেন।

ধন্যবাদান্তে

তারিখ	পঞ্জীকরনের বা Registration এর স্থানঃ	ব্লক-	
		গ্রাম পঞ্চায়েত-	
		গ্রাম সংসদ-	
যোগাযোগের ঠিকানা / ব্যক্তিগত তথ্য			
নাম		লিঙ্গ	বয়স
বাড়ির ঠিকানাঃ গ্রাম-	পাড়া-	পুরুষ -	
ফোন নং-	ই-মেইল-	মহিলা-	
অভিযোগ/ পরামর্শ/ মন্তব্য/ প্রশ্নাদি- দয়া করে কে, কি, কোথায় এবং কিভাবে - অভিযোগের এই বিশদ বিবরণ নিচে লিখুন-			
যদি কোন অতিরিক্ত কাগজ জুড়তে হয় / বা নোট থাকে বা চিঠি থাকে তাহলে এই ঘরে (খ) টীক দিন।			
আপনি কিভাবে আপনার অভিযোগ / মন্তব্য বিষয়ে অবগত হতে চান ?			

শুধুমাত্র অফিসের ব্যবহারের জন্যঃ

যে আধিকারিক অভিযোগ জমা নিলেন তার নাম :
কিভাবে জানানো হল (খ) টীক দিনঃ নোট বা চিঠির মাধ্যমে - ই-মেইল- মুখে মুখে বা টেলিফোনে-
যিনি অভিযোগ পাবার পর খতিয়ে দেখেছেনঃ
(নাম / পদ)
কি ব্যবস্থা গ্রহণ করা হয়েছেঃ
ব্যবস্থা যা গৃহীত হয়েছে তা জানানো হয়েছে কি না - হ্যাঁ / না
কিভাবে জানানো হলঃ

মন্তব্য-

প্রস্তুতকারক -

আনুমোদনকারী -

তারিখ-