

# Semi-Annual Environmental Monitoring Report

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Project Number: 49107-006

Period: May–October 2019

Submission Date: December 2019

## IND: West Bengal Drinking Water Sector Improvement Project (PART B)

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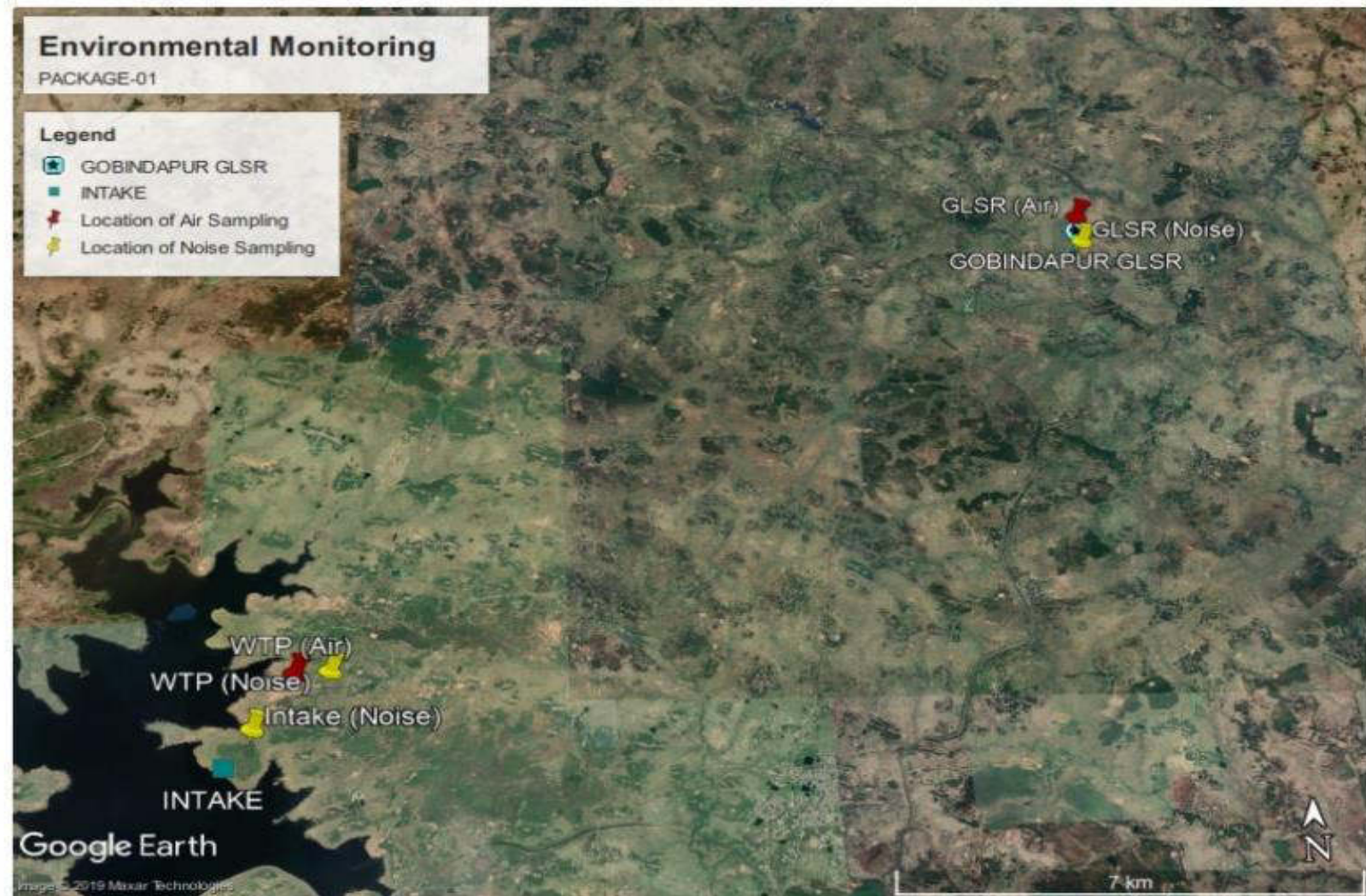


Figure 10A: Monitoring stations for Package BK/01- Bankura





Figure 10B: Monitoring stations for Package BK/02A- Bankura



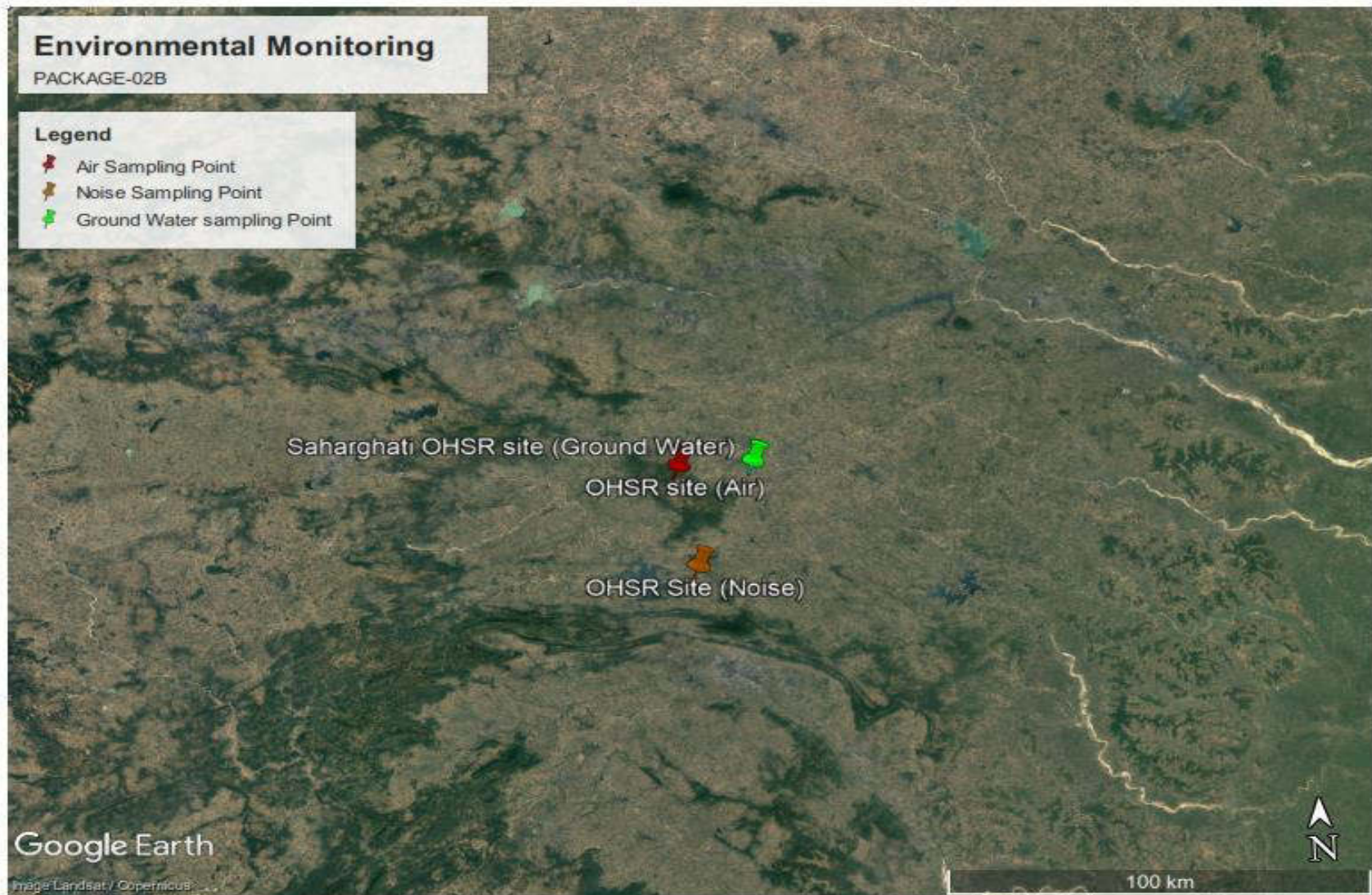


Figure 10C: Monitoring stations for Package BK/02B- Bankura





Figure 10D: Monitoring stations for Package BK/03- Bankura



Figure 10E: Monitoring stations for Package BK/04- Bankura



### C. Method of monitoring and Equipment used

85. **Ambient Air Quality Monitoring Equipment and Methodology.** Respirable Dust Samplers and Fine Dust Samplers (Model no.-APM-860/APM-154) have been used to collect samples for PM (10) and PM (2.5) in ambient air at a flow rate of 1.2 m<sup>3</sup>/min. The ambient air was sucked through the cyclone and filter paper by a blower. Samples of gases were drawn at a flow rate of 0.5 liters per minute and were analysed in the laboratory. Ambient air quality monitoring methodology is given in below table.

**Table 18: Methodology for the ambient air monitoring**

Sl. No	Parameters	Measurement Method	As per
1.	PM <sub>10</sub>	Gravimetric	IS:5182 Part-23, RA-2017
2.	PM <sub>2.5</sub>	Gravimetric	USEPA CFR-40, Part-50
3.	SO <sub>2</sub>	Colorimetric (EPA modified West & Gaeke Method)	IS:5182 Part-2, 2001, RA-2017
4.	NO <sub>x</sub>	Colorimetric (Arsenite modified Jacobs & Hochheiser Method)	IS:5182 Part-6, 2006, RA-2017
5.	CO	Non-Dispersive Infra-Red (NDIR) Spectroscopy Technique	IS:5182 Part-10, 1999, RA-2014

86. **Methodology of Surface Water Monitoring.** In order to establish baseline conditions, grab samples were collected from water source and were analysed for various parameters as per the procedures laid down in the BIS. Samples were collected as per IS- 2488 (Part I-V). Surface water samples were analysed as per surface water quality criteria by Central Pollution Control Board (CPCB) for class B. Ground water samples were also analysed as per method provided by CPCB. Wet chemical, Atomic Absorption Spectrophotometer and UV/VIS Spectrophotometer were used for analysis of water samples according to the necessity.

87. **Methodology of Noise Monitoring.** Pulsar Data logger Noise Meter (Model 30) was used to monitor the noise levels. Noise level was monitored continuously for 24 hours with one-hour interval. Noise level was measured in the form of Leq dB(A), - Day and Night .

### D. Monitoring results and analysis of results

88. Monitoring results and analysis of results are presented below for sub projects at North 24 Pgs and Bankura.

89. Base line monitoring will be conducted for East Medinipur projects after award of the contract

#### i. Environmental Monitoring Results of North 24 Pgs and observations

**Table 19: Ambient Air Quality Monitoring Results- North 24 pgs**

Site no.	Date of Testing	Site Location	Parameters				
			PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
Contract Package WBDWSIP/DWW/NCB/N24P/02A/2017-18							
Zone-2	11-12.06.2019	Nebutala Abada	133	71	0.69	9.2	32.2
Zone-5	12-13.06.2019	Kulti Uposasthya Kendra	117	59	0.60	8.8	30
Zone-13	10-11.06.2019	Paschim Bhaida Primary School	139	75	0.61	8.3	34

Site no.	Date of Testing	Site Location	Parameters				
			PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
Zone-17	10-11.06.2019	Near Majanpur High School	155	81	0.59	9.3	33.7
Zone-21	11-12.06.2019	Haroa Market	120	65	0.68	8.9	31.8
<b>Contract Package WBDWSIP/DWW/NCB/N24P/02B/2017-18</b>							
Zone-13	15-16.06.2019	Near Baniara	125	70	0.67	10.1	32.1
Zone-1	14-15.06.2019	Dharmatala Pachuria	147	86	0.58	10.6	33.8
Zone-4	13-14.06.2019	Swastayan Gacchi Near School	142	79	0.59	9.5	34.5
Zone-12	18-19.06.2019	Near Bonkochua	109	58	0.70	8.9	28.4
Zone-10	15-16.06.2019	Near Paschim Majarhat Primary School	123	65	0.69	9.7	30.3
<b>Contract Package: WBDWSIP/DWW/NCB/N24P/01/2017-18</b>							
	16-17.05.2019	WTP at tank no 1	189	91	0.47	8.7	35.5
	16-17.05.2019	Boosting station -1	149	84	0.45	8.3	35.1
	22-23.10.2019	Near Admin Building	117	73	0.57	10.9	39.5
<b>National Ambient Air Quality Standard</b>			<b>100</b>	<b>60</b>	<b>2</b>	<b>80</b>	<b>80</b>
<b>WHO standard</b>			<b>100</b>	<b>50</b>	<b>-</b>	<b>50*</b>	<b>40*</b>

\*Interim target 2

Note: National level Central Pollution Control Board's (Govt. of India) guideline/ protocol used for sampling, For analysis. INDIAN STANDARD IS 5182 and USEPA CFR 40 (International protocol) used for analysis



**Table 20: Surface Water quality monitoring Result – North 24 Pgs**

Site no.	Date of sampling	Site Location	Parameters												
			pH	Turbidity (NTU)	Cl- (mg/l)	F (mg/l)	No3- (mg/l)	COD (mg/l)	BOD( mg/l)	DO( mg/l)	Total alkali nity( mg/l)	Hard ness( mg/l)	Oil & Greas e(mg/l)	Total coliform (MPN/ 100 ml)	Fecal coliform (MPN/100 ml)
	Contract Package WBDWSIP/DWW/NCB/N24P/02A/2017-18														
Zone-3	17.10.2019	Pond water of Nebutala Abada	8.06	4.8	684	0.76	<0.5	156.8	44.8	5.9	164	378	2.6	2.8	BDL
Zone-13	17.10.2019	Pond water in zone 13	7.48	9.4	86.44	0.36	<0.5	20	5.6	4.6	192	226	6.2	9.4	3.6
Contract Package WBDWSIP/DWW/NCB/N24P/02B/2017-18															
Zone-4	17.10.2019	Pond water of Swastayan Gacchi	7.62	6.2	86.4	<0.1	<0.5	58.8	15.9	4.6	236	228	4.2	4.6	BDL
Zone-12	17.10.2019	Pond water of Bonkochua	7.59	9.8	56.34	<0.10	<0.5	39.2	10.3	5.2	198	220	4.6	4.2	6.8
Surface water quality criteria By CPCB(class B outdoor bathing)			6.5-8.5	---	---	1.5	---	---	3	5	---	---	---	500	---

**Table 21: Noise Level Monitoring data- North 24 Pgs**

Site No	Date of Testing	Site Location	Leq dB(A)	
			Day Time	Night Time
Contract Package WBDWSIP/DWW/NCB/N24P/02A/2017-18				
Zone-13	10-11.06.2019	Paschim Bhaida Primary School	53.5	48.8
Zone-17	10-11.06.2019	Near Majanpur High School	58.0	47.4
Zone-21	11-12.06.2019	Haroa Market	61.2	52.6
Zone-2	11-12.06.2019	Nebutala Abada	58.8	49.7
Zone-5	12-13.06.2019	Kulti Uposasthya Kendra	57.0	48.6
Contract Package WBDWSIP/DWW/NCB/N24P/02B/2017-18				
Zone-10	15-16.06.2019	Majerhat	57.1	50.3
Zone-4	13-14.06.2019	Near SwastayanGacchi School	56.6	47.8
Zone-1	14-15.06.2019	Dharmatala Pachuria School	53.3	49.2
Zone-12	18-19.06.2019	Near Bonkochua	55.2	48.9
Zone-13	15-16.06.2019	Near Baniara	53.4	50.1
Contract Package : WBDWSIP/DWW/NCB/N24P/01/2017-18				
	16-17.05.2019	WTP at tank no 1	66.5	58.5
	16-17.05.2019	Boosting station - 1	65.1	56.0
	22-23.10.2019	Near Admin Building	63.4	54.2
Code/Category	Leq Day Time dB(A) - Standard		Leq Night Time dB(A) - Standard	
A/Industrial	75		70	
B/Commercial	65		55	
C/Residential	55		45	
D/Ecological-Sensitive	50		40	
Note: National level Central Pollution Control Board's , CPCB's (Govt. of India) guideline/ protocol used for sampling				

90. For all the subprojects, PM<sub>10</sub> and PM<sub>2.5</sub> results during constructions are found to be exceeding the limits prescribed in National Ambient Air Quality Standard as well as WHO. Although, CO, SO<sub>2</sub> and NO<sub>2</sub> concentration levels –typically emitted due to combustion of fossil fuels – were all found within the prescribed National standard. Concentration of NO<sub>2</sub> is just below the WHO standard. Base line PM<sub>10</sub> and PM<sub>2.5</sub> as shown in earlier semi-annual report (November 2018– April 2019) indicates variation from 198 – 232 µg/m<sup>3</sup> for PM<sub>10</sub> and 100- 120 µg/m<sup>3</sup> for PM<sub>2.5</sub>. Therefore, it can be inferred that the increased levels of PM<sub>10</sub> and PM<sub>2.5</sub> are due to high background concentration. Contractors are being advised regularly to take necessary action on dust suppression by sprinkling of water whenever required.

91. Water quality levels were found to be well within their respective limits in all the monitored samples, except BOD level. High BOD may be due to organic load from local activity/ use. Based on the results obtained it can be concluded that release of wastewater, mostly having biological loading has caused contamination of these water bodies and rendered these sources unsuitable for outdoor bathing.

92. In case of noise level, while the limits are exceeded when the monitoring was conducted near schools, however, in other locations the noise levels were found to be within the stipulated limits during day time. Noise producing activity should be limited during school time. Accordingly, instruction has been given to contractors.



93. During Construction, air quality, noise level and water quality monitoring will be continued as per Environment Management and Monitoring Plan. All monitoring expenses will be borne by contractors from their project Health safety monitoring budget

94. All original test certificates are available in DSISC office as back-up and result scanned copy attached as **Appendix 10**.

## ii. Environmental Monitoring Results of Bankura Packages and observations

95. Base line monitoring for Bankura sub projects just started. No construction activity is reported till 31<sup>st</sup> October 2019. Base line monitoring will be conducted for the remaining packages before start of construction activities. Monitoring results are shown below.

**Table 22: Ambient Air Quality Monitoring Results- Bankura**

Site no.	Date of Testing	Site Location	Parameters				
			PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
Contract Package: WBDWSIP/DWW/NCB/BK/01/2017-18							
1	04.06.2019	WTP Site- Lohadihi	109	58	0.366	6.0	23.5
2	04.06.2019	GLSR site- Gobindapur	118	64	0.389	5.7	26.0
Contract Package: WBDWSIP/DWW/NCB/BK/02A/2018-19							
1	02-03.07.19	GLSR Site- Raghunathpur	54	31	0.185	5.0	16.4
Contract Package: WBDWSIP/DWW/NCB/BK/02B/2018-19							
1	02-03.07.19	OHSR Site- Saharghati	48	26	0.168	4.5	15.8
Contract Package: WBDWSIP/DWW/NCB/BK/03/2018-19							
1	01-02.07.19	WTP Site Basudevpur/ Radhamadhabpur	57	31	0.18	5.3	20.4
Contract Package: WBDWSIP/DWW/NCB/BK/04/2018-19							
1	01-02.07.19	OHSR site -Deruli- Desuriya primary school	62	34	0.198	5.7	21.1
National Ambient Air Quality Standard			100	60	2	80	80
WHO standard			100	50	-	50*	40*

**Table 23: Noise Level Monitoring data- Bankura**

Site No	Date of Testing	Site Location	Leq dB(A)	
			Day Time	Night Time
Contract Package: WBDWSIP/DWW/NCB/BK/01/2017-18				
1	04.06.2019	WTP Site- Lohadihi	53.2	44.8
2	04.06.2019	GLSR Site- Gobindapur	60.1	52.9
3	04.06.2019	Intake- Kumar Bahal	51.1	44.7
Contract Package: WBDWSIP/DWW/NCB/BK/02A/2018-19				
1	02.07.2019	GLSR Site- Raghunathpur	41.6	35.3
Contract Package: WBDWSIP/DWW/NCB/BK/02B/2018-19				
1	02.07.2019	OHSR Site- Saharghati	57.6	64.8
Contract Package: WBDWSIP/DWW/NCB/BK/03/2018-19				
1	01.07.2019	WTP Site Basudevpur/ Radhamadhabpur	51.6	40.7
Contract Package: WBDWSIP/DWW/NCB/BK/04/2018-19				

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Site No	Date of Testing	Site Location	Leq dB(A)	
			Day Time	Night Time
1	01.07.2019	OHSR site - Deruli- Desuriya primary school	45.1	36.1
Code/Category	Leq Day Time dB(A) - Standard		Leq Night Time dB(A) - Standard	
A/Industrial	75		70	
B/Commercial	65		55	
C/Residential	55		45	
D/Ecological- Sensitive	50		40	
Note: National level Central Pollution Control Board's, CPCB's (Govt. of India) guideline/ protocol used for sampling				

**Table 24: Ground Water Quality Monitoring data - Bankura**

Sl. No.	Parameters	Unit	Results			National Standards for Drinking Water-BIS 10500-2012 Acceptable limit (Maximum permissible limit)
			Location: Raghunathpur (Package BK/02A) Date of sampling 27.06.2019	Location: Saharghati - Chenchurya (Package 02B) Date of sampling: 27.06.2019	Location: Desuriya- Deuli (Package 04) Date of sampling: 02.07.2019	
1.	Turbidity	NTU	<1.0	<1.0	<1.0	1 (5)
2.	pH	-	7.72	7.43	6.78	6.5-8.5
3.	Colour	Hazan Unit	<1.0	<1.0	<1.0	5 (15)
4.	Taste and Odor	-	Agreeable	Agreeable	Agreeable	Agreeable
5.	TDS	Mg/l	420	142	1796	500 (2000)
6.	Iron	Mg/l	<0.05	<0.05	1.10	0.3
7.	Manganese	Mg/l	<0.05	<0.05	<0.05	0.1 (0.3)
8.	Arsenic	Mg/l	<0.01	<0.01	<0.01	0.01 (0.05)
9.	Cadmium	Mg/l	<0.002	<0.002	<0.002	0.003
10.	Chromium	Mg/l	<0.02	<0.02	<0.02	0.05
11.	Cyanide	Mg/l	<0.01	<0.01	<0.01	0.05
12.	Fluoride	Mg/l	0.41	0.13	<0.1	1 (1.5)
13.	Lead	Mg/l	<0.005	<0.005	<0.005	0.01
14.	Ammonia	Mg/l	<0.5	<0.5	<0.5	0.5
15.	Chloride	Mg/l	105.3	9.57	380.6	250 (1000)
16.	Sulphate	Mg/l	25.73	8.11	110.1	200 (400)
17.	Nitrate	Mg/l	3.37	0.51	3.24	45
18.	Copper	Mg/l	<0.04	<0.04	<0.04	0.05 (1.5)
19.	Total Hardness	Mg/l	364	56	915.2	200 (600)
20.	Calcium	Mg/l	97.6	19.2	258	75 (200)
21.	Zinc	Mg/l	0.48	0.48	0.42	5 (15)
22.	Mercury	Mg/l	<0.001	<0.001	<0.001	0.001
23.	Aluminium	Mg/l	<0.02	<0.02	<0.02	0.1 (0.3)
24.	Residual Chlorine	Mg/l	0.2	0.2	0.2	0.2
25.	E-Coli	MPN/100 ml	-	-	-	Must not be detectable in 100 ml sample
26.	Total Coliform	MPN/ 100 ml	-	-	-	Must not be detectable in 100 ml sample

96. For the subprojects, PM<sub>10</sub> and PM<sub>2.5</sub> base line concentrations are found to be within the limits prescribed in National Ambient Air Quality Standard as well as WHO, except for package



BK/01, where concentration of PM<sub>10</sub> above the limit for both WTP and GLSR locations. Although, CO, SO<sub>2</sub> and NO<sub>2</sub> concentration levels –typically emitted due to combustion of fossil fuels – were all found within the national prescribed limits as well as WHO limit. During construction period contractors will follow mitigation measures for controlling air quality in and around the project locations.

97. Base line noise levels at all the locations were within the limit. Mitigation measures will be applied during construction time, as per site condition.

98. Surface water quality monitoring undergoing as per development of design.

99. Drinking water parameters were within the prescribed limit, except sample as collected from package BK/04 location. At that location concentration of Iron, TDS, Hardness, Chloride and Calcium were high and sometime above the standard.

100. Soil quality monitoring and surface water quality testing will be done after selection of actual location of OHR site (after completion of design) and intake source, respectively.

101. During Construction, air quality, noise level, soil and water quality monitoring will be continued as per Environment Management and Monitoring Plan. All monitoring expenses will be borne by contractors from their project Health safety monitoring budget

102. All original test certificates are available in DSISC office as back-up and result scanned copy attached as **Appendix 10**.

## VII. SUMMARY OF KEY ISSUES AND REMEDIAL ACTIONS

103. Status of EMP application discussed in earlier section. Some partial compliance issues have been noted during report period.

104. **Table 25** lists the implementation status of corrective action observed during May – October 2019 in work sites that were active during November 2018 – April 2019. The implementation plan for partially completed corrective actions are presented in **Table 26**.

**Table 25: Implementation of Corrective Action Plan**

Sr no.	Partially complied issues (November – April 2019 report period)	Status	Further Action Required	Responsible-Implementation	Budget
1	Facilities in the construction camps, especially sleeping arrangements, toilet facilities, provision of drinking water and fuel for cooking (Both - N24P/02A – Haroa & N24P/02B Bhangar II)	Partially improved.	Provision of drinking water and fuel for cooking should be improved.	Contractor	Contractor work cost and EMP budget
2	Installation of proper work display board and repairing/replacement of old board (Bhangar II – Zone 10, 13 package N24P/02B- Bhangar II)	Done at site	None		
3	Improvement of housekeeping, access to working area (Haroa – Zone1 of package N24P/02A, Bhangar II – Zone 10, 13 package N24P/02B)	Partially improved	Facilities at workers camp and to be further improved	Contractor	Contractor work cost and EMP budget
4	Complete use of PPE, particularly use of working safety shoes, hand gloves and ear plug (Both – N24P/02A – Haroa & N24P/02B Bhangar II)	Improvement noted. Use of helmet – noted	Complete supply and use of PPEs particularly shoes, hand gloves – Immediately	Contractor	Contractor work cost and EMP budget
5	Management of wastewater at camp sites (Haroa – Zone1 package N24P/02A, Bhangar II – Zone 10, 13 of package N24P/02B)	Improved partly	Proper Wastewater management from worker's camp to be ensured	Contractor	Contractor work cost and EMP budget
6	Unsatisfactory storage of materials at Zone 13 for Bhangar II package N24P/02B	Proper storage of construction materials has been arranged at dedicated location	None	Contractor	Contractor work cost and EMP budget

105. **Table 26** provides the recommended corrective action plan that has been devised and target dates that have been set so as to remove these non-compliances. The concerned Contractors have been suitably advised. Contractors have also been advised to provide written commitment for implementation of corrective action plan.



**Table 26: Implementation Plan for Pending/ New Corrective Actions**

Sr no.	New/ Pending issues	Action Required	Responsible-Implementation / Budget	Target Date	Responsible – Monitoring	Responsible – Reporting	Indicator of Compliance
1	Facilities in the worksite should include an office and toilet for workers (For package N 24 pgs/02A and 02B)	Immediate improvement in the site to provide basic facilities	Contractor/ Contractor work cost and EMP budget	31 <sup>st</sup> December 2019	DSISC, PIU	PIU, PMU-PMC	Site observation and checking
2	Facilities in the construction camps, especially sleeping arrangements, toilet facilities, provision of drinking water and fuel for cooking, waste and wastewater management needs to be improved (For package N 24 pgs/02A and 02B)	Immediate improvement of housekeeping and basic facilities for workers	Contractor/ Contractor work cost and EMP budget	31 <sup>st</sup> December 2019	DSISC, PIU	PIU, PMU-PMC	Site observation and checking
3	The ICDS functioning inside Zone 17: Shalipur pose risk to the children in terms of high noise and accidents (For package N 24 pgs/02A)	This ICDS should be immediately shifted from this working site or proper separation of the area from work site	Contractor – PIU /Contractor work cost and EMP budget	31 <sup>st</sup> December 2019	DSISC, PIU	PIU, PMU-PMC	Site observation and checking
4	Use of PPEs e.g. safety shoes and goggles should be ensured at all sites especially for activities like concrete braking. (For package N 24 pgs/02A and 02B)	Although Contractor has provided adequate numbers of PPEs but use of these PPEs during hazardous activities are inadequate. Hence, management with respect to use of PPEs should be improved.	Contractor-PIU/ Contractor work cost and EMP budget	31 <sup>st</sup> December 2019	DSISC, PIU	PIU, PMU-PMC	Site observation and checking
5	Barricading and caution tapes should be put along pipeline trenches at all pipeline laying sites. (For package N 24 pgs/02A and 02B)	Use of barricading and caution tapes should be ensured.	Contractor- PIU/ Contractor work cost and EMP budget	20 <sup>th</sup> December 2019	DSISC, PIU	PIU, PMU-PMC	Site observation and checking
6	Access should be provided in front of residences and commercial establishments during pipeline trenching. (For package N 24 pgs/02A and 02B)	Provision for temporary access to be ensured.	Contractor- PIU/ Contractor work cost and EMP budget	20 <sup>th</sup> December 2019	DSISC, PIU	PIU, PMU-PMC	Site observation and checking
7	The pit latrines installed at Zone 10 and 13 of Bhangar – II Block as well as in WTP site of Subproject	These pit latrines should at least be replaced with systems promoted under <i>Swachh</i>	Contractor- PIU/ Contractor work cost and EMP budget	31 <sup>st</sup> December 2019	DSISC, PIU	PIU, PMU-PMC	Site observation and checking

Sr no.	New/ Pending issues	Action Required	Responsible-Implementation / Budget	Target Date	Responsible – Monitoring	Responsible – Reporting	Indicator of Compliance
	may cause faecal coliform contamination to groundwater (For package N 24 pgs/01 and 02B)	<i>Bharat</i>					
8	Improvement of housekeeping, access to working area (Haroa – Zone1 of package N24P/02A, Bhangar II – Zone 10, 13 package N24P/02B)	Immediate improvement of housekeeping and access to working area to be ensured.	Contractor/ Contractor work cost and EMP budget	31 <sup>st</sup> December 2019	DSISC, PIU	PIU, PMU-PMC	Site observation and checking
9	Management of wastewater at camp sites (Haroa – Zone1 package N24P/02A, Bhangar II – Zone 10, 13 of package N24P/02B)	Further improvement in wastewater management to be ensured so that inappropriate discharge of wastewater is avoided.	Contractor/ Contractor work cost and EMP budget	31 <sup>st</sup> December 2019	DSISC, PIU	PIU, PMU-PMC	Site observation and checking

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## APPENDIX 1: PHOTO ILLUSTRATION

**Package - Design, Construction and Operation of Water Treatment Plant, Reservoirs, Transmission Mains and Pumping Stations works in Haroa, Rajarhat, and Bhangar II. (WBDWSIP/DWW/N-24P/NCB/01/2017-18)**

### A: Work In Progress



Partial use of safety gears seen in piling activity



Uncleaned surrounding area of labour camp at WTP site, Rajarhat. Housekeeping is required

### B: Training and Consultations



Training program on First Aid done at WTP site

**C: Good Practices**



Arrangement of beds (bamboo cot) in labour camp at WTP site, Rajarhat



Toilet arrangement in labour camp at WTP site, Rajarhat



Use of caution tape, public information board and safety signage placed at excavation area of WTP site, Rajarhat



**Package – Design and Construction of Overhead Reservoir including Water Supply Distribution Network and Metering works in Haroa Block (Pack- N24P/02A/2017-18)**

**A: Work in Progress**



Use of Platform missing at zone-1(Pipeline)



Use of Caution tape and Partial use of PPEs noted at zone-1



Partial use of PPEs at zone -1(OHR)



Partial Use of caution tape and PPEs at zone -5



Partial satisfactory road restoration seen at zone-17 (Pipeline)



Partial water logging and improper storage of construction material at zone-12(OHR)





Partial use of PPEs seen at zone-12



Partial use of PPEs seen at zone-15 (Pipeline)



Partial use of PPEs seen at piling work zone - 18(OHR)



Improper storage of construction material in access area at zone-18(OHR)

## B: Training and Consultation



Public consultation at zone-6



Public Consultation at zone-12(Pipe line)



**C: Good Practices**



Cooking arrangement with L.P.G at zone-1(Pipeline) camp



Use of Fire Extinguisher and banner at zone - 1(OHR)



Flag man during visit seen at zone-12(Pipeline)



Labour Camp Inspection at zone-5



Kitchen arrangement with gas connection at zone - 13



Use of platform seen during visit at zone-13



Satisfactory road restoration seen after work at zone-14



Cot arrangement of bedding in Labour hutment at zone -15(OHR)





Well barricaded stock yard seen at zone-17(OHR)



Gopalpur zone 18 OHR construction site. Project board noticed



First aid box available at OHR site of Zone 18



**Package – Design and Construction of Overhead Reservoir including Water Supply Distribution Network and Metering works in Bhangar Block (Pack- N24P/02B/2017-18)**

**A: Construction Works**



Poor storage condition of reinforcement bar at construction site



Backfilling is in progress at Zone 4 after pipe laying



Boundary Wall construction in progress at Zone 10



Diesel generator at zone-4(OHR) without spill containment



Partial use of safety gears seen in piling activity at zone-10 (OHR) site

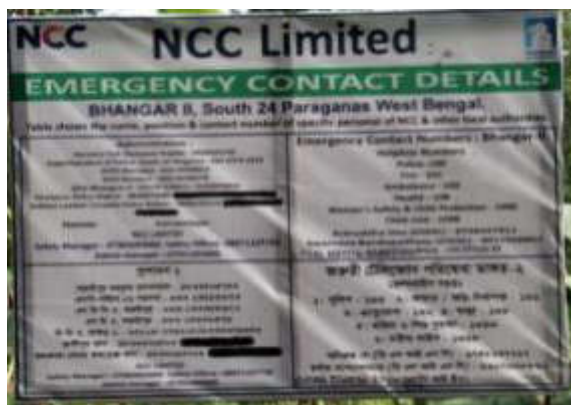


## B : Training and Consultation



Labour HSE Awareness Training at zone -4(OHR)

## B : Good Practices



Emergency Contact number board at Zone 4 OHR



Proper Safety Signage Posters with local language at site



Caution board with local language.at pipe laying site  
Contact number needs to be added



OHR site toilet facility at Zone 10





First aid box noted at construction site



Barricading with caution tape at hydro testing process seen at zone-4(Pipe line site)



Use of proper PPEs seen at zone-12(OHR) in piling work



Placement of fire extinguisher in labour camp at zone - 12(OHR)



Separate cemented tank constructed to save water in piling activity at zone 12(OHR)



Use of board, caution tape at zone-12(Pipe line)



Dust bin arranged at zone-13(OHR) with labels



Bamboo piling before pipe laying seen at zone -9 (Pipe line)





Pilling work in progress for Zone 13



Project board at Zone 4 OHR site

**Package: Design, Construction and Operation-Maintenance of Raw Water Intake Well, Water Treatment Plant, Reservoir, Transmission Main for Indpur and Taldangra block in Bankura (WBDWSIP/DWW/NCB/BKP/01/2017-18)**

**Pre-construction stage activity**



**Topographic survey of Package – 01 (New WTP Area)**



**Topographic survey of Package - 01 (New WTP Area)**



**Geotechnical Survey going on at Canal crossing area**



**Resistivity survey going on at WTP site Mukutmanipur**



**Arrangement of cabin for office at WTP site**



**Resistivity survey at Indpur**

**Package: Design and Construction of Intermediate Pumping Station, ground storage reservoirs, overhead reservoirs, water distribution network and metering works in Indpur block (WBDWSIP/DWW/NCB/ BK/02A/2018-19)**

**Pre construction stage activity**



**Geotechnical Investigation at Nayekhir OHR site**



**Geotechnical Investigation at Chakaltor OHR site**



**Geo technical Investigation at Dumurtor OHR Site of Package -02A Bore Hole-2**



**Geo- technical Investigation at Chaukighata OHSR Site Package-02A**



**Package: Design and Construction of Intermediate Pumping Station, Secondary transmission mains, overhead reservoirs including water distribution network and metering works in Taldangra Block WBDWSIP/DWW/NCB/BK/02B/2018-19**

**Pre construction stage activity**



**PBM Established at Sushunia OHSR Of Package -02B**



**Dimensions Test of Burnt Clay Bricks Package 02B laboratory**



**House Hold Consumer Survey at Chenchurya Site Package 02B Zone**



**Geo-technical Investigation at Borehol-1 Pedda OHSR site Package-02B**



**Package: Design, Construction and Operation-Maintenance of Raw Water Intake Well, Water Treatment Plant, Raw and Clear Water Transmission Main for Mejhia and Gangajalghati Block in Bankura (WBDWSIP/DWW/NCB/BK/03/2018-19)**

**Pre construction stage activity**



**Marking of trees at WTP site for felling**



**7 days Compressive strength test of M25 grade of Concrete at Package- 03 Laboratory**



**Worker hutment under construction at WTP site**



**Water sample collection for testing - package 03**

**Package: Design and Construction of Overhead Reservoir including Water Supply Distribution Network and Metering Works in Mejhia and Gangajalghati Blocks including Rehabilitation of Existing Schemes (WBDWSIP/DWW/NCB/BK/04/2018-19)**

**Pre construction stage activity**



**Consumer Survey work of Package-04**



**Water Sample collection for construction work at Chotonabagram OHR site, Package-04**



**Geo technical Investigation at Subira OHR Site of Package-04**



**Geo technical Investigation at Garjuria OHR Site of Package-04**

## APPENDIX 2: SAMPLE PUC CERTIFICATES

Package N 24 pgs/01

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

Vehicle Regis. No.: **WB25G7809** WB-01: **D 2802259**

Date of Issue: **10/11/2018** Valid upto: **09/11/2019**

Pollution Level:

CO (%)	
HC (ppm)	
SO (HSU)	<b>0.91</b>

P.U.C. Certificate issued by: **MIRA SERVICE STATION**

Signature: **[Signature]**

Photo: **[Photo]**

License No. and Ser: **0004/AETC/BST/11**

WB-01: **D 2802259**

**COMPUTERISED EMISSION TEST CERTIFICATE**  
Authorised Transport Dept. of West Bengal  
**MIRA SERVICE STATION**

PLOT NO-02, BLOCK-AH, NEW TOWN, KOL-700156

License Number :- **0004/AETC/BST/11**

I.D. Number :- **005162** Date :- **10/11/2018**

Year Of Registration :- **2017** Time :- **12:37:48 PM**

Vehicle Registration Number :- **WB25G7809**

Speedometer :- **0**

Engine Number :- **63742**

Chassis Number :- **07102**

Vehicle Color :- **WHITE**

Vehicle Make :- **MARUTI**

Vehicle Model :- **SWIFT DZR**

Type Of Engine :- **4S**

Type of Vehicle :- **4W**

Owner :- **S.GHOSH**

Driver :-

Contact :- **8482008135**

Oil Temperature :- **85**

Fuel :- **Diesel**

Result :- **Pass**

Valid Upto :- **09/11/2019**

	Ideal RPM	Max RPM	K. Value	HSU Value	Oil Temp
1	2230	2770	0.03	1.24	77
2	1180	2530	0.03	1.12	82
3	2320	2710	0.01	0.37	85
Avg	1910.00	2670.00	0.02	0.91	

Name of Authorise Signatory: **SST No.- 19AA0FM17257K1ZH**

with Seal of Testing Center: **DI. 02.07.17**

**MIRA SERVICE STATION**  
Plot No- 2, Block-AH  
New Town, Kolkata  
Kolkata-700156

**C.G.S.T 9% = 3.00 | TOTAL**  
**S.G.S.T 5% = 9.00 | 118.00/-**  
**C.G.S.T 9% = 7.20 | TOTAL**  
**S.G.S.T 5% = 7.20 | 94.50/-**



Package N 24 pgs/02A and 02B

**RELATIVE OTHER CERTIFICATE**  
(Under the West Bengal Motor Vehicle Rules, 1988)

Vehicle Registrn. 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**

**MIRA SERVICE STATION**  
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 :- **4:08:56 PM**

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

Speedometer :- **0**

Engine Number :- **E14894**

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	2480	0.04	1.54	34
Avg	796.00	2466.00	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

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


Vehicle Registr. No. **PB02BL7373** WB-01-**D 5679142**

Date of issue: **16-08-2019** Valid upto **15-02-2020**

Pollution Level


CO (%)	5.83
HC (ppm)	

PUC Certificate No. **32/D**

Signature 


WB-01-**D 5679142**

**COMPUTERISED EMISSION TEST CERTIFICATE**  
CMVR AUTHORISED BY : Govt. of we  
AKBAR AUTO EMISSION TESTING CENTRE  
BASANTI HIGHWAY, GHATAKPUKUR, PO/PS-BHAGAR, 24 PGS (S), W.B-743502

I.D Number WB32D3647572 Licence No: 32/D  
Year Of Registration= 2011 Date :16-08-2019  
vehicle registration no = PB02BL7373 TIME= 02:47:14  
Speedometer Reading[kms] =21522 Owner= N C C CO  
Engine Number=9218 Driver,- SELF  
chasis Number=G2011 Test Fee : Rs.100/-  
Vehicle Colour = YELLOW Fuel : Diesel  
Vehicle Make : JCB Smk cell Temp : 00  
Vehicle Model : 3DX Oil Temp : 93.0  
Type Of Engine : OTHERS Valid Up To : 15-02-2020  
Type OF Vehicle: OTHERS Grade 

Test Result : Free Acceleration Validity 6 Months

	Ideal Rpm	max Rpm	K Value	Hsu va	Oil Temp
1	860	2900	5.37	90.06	61
2	860	2900	0.17	6.9	68
3	852	2700	0.12	6.9	66
Avg	860	2930	1.9	55.83	



Seal Of Testing Center

Certified that this Vehicle's K-Mean and hsu% value conforms to the standards prescribed under rule 115(2) of CMB rules 1989, Operator- MD RAMIZ RANA

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

Vehicle Registr. No.: **WB08G1752** WB-01-**D 4231066**

Date of issue: **07-May-2019** Valid upto: **06-May-20**

Pollution Level:  
CO: (%)  
HC (ppm)  
SD (HSU) **44.1%**

PUC Certificate issued by: **MILI ENTERPRISE** License No. and Seal: **151/AETC/2018**

Signature: *[Signature]* Vehicle Pass: **WB-01**

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

Transport Department

**MILI ENTERPRISE**  
BP RAJARHAT NEW TOWN, KOLKATA - 700156, WEST  
PH: 9432010995

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

PUC No.: **FWB0001000008** Vehicle Reg No: **WB08G1752**

Name: **NCC LIMITED** Category: **car**

Address: **NEW TOWN** Make: **MAHINDRA**

**KOL-156** Model: **BOLERO**

Mobile: **9830728872** Date of Reg.: **2019**

Date: **07-May-2019** Speedo mtr Rdg: **252**

Time: **11:17 AM** Engine No.: **16280**

Fuel: **Diesel** Chassis No.: **32097**

Flashing Cycle Mean: **RPM Min: 0820 RPM Max: 1923** Emi Norms.: **BS-IV or Onwards**

Vehicle Type: **BS4-4 Wheeler**

SNo.	RPM min	RPM max	K.m-l	HSU %	OTP C
1	0710	2050	01.23	41.2	042.00
2	0720	2110	01.47	46.9	041.00
3	0720	2080	01.35	44.2	041.00

Standard	Measured
K.m-l	1.62 01.35
HSU %	50 44.1

Valid upto: **06-May-20**

Grade: **B**

Test Fee: **100**

Mean **0716 2080 01.35 44.1% 041.33**

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

Seal of Testing Centre

Authorised Signatory: *[Signature]*

INDUS DiesX 2.8.6/0000-0000/4660



Bankura- Package BK/02B

**POLLUTION UNDER CONTROL CERTIFICATE**  
(Under the West Bengal Motor Vehicles Rules, 1988)

Vehicle Registr. No.: **WB 39 A 9261** **WB-01-C 9713691**  
Date of issue: **06-07-2019** Valid upto: **05-01-2020**

Pollution Level:  
CO (%) **0.26**  
HC (ppm)   
SD (HSU)

PUC Certificate issued by: **WTO EMISSION CENTRE**  
Signature: **[Signature]** License No. and Seal: **[Seal]**

**COMPUTERISED EMISSION TEST CERTIFICATE**  
Authorised Transport Dept. of West Bengal  
**BALABUX KANAHAIYALAL**  
399, NEW BYPASS ROAD, BANKURA

Vehicle Registration Number :- WB 39 A 9261  
Licence Number :- H/BANK/2001  
Date :- 06-07-2019  
Time :- 2:10:55 PM

ID Number :- 000699  
Year Of Registration :- 2014  
Speedometer :- 00  
Engine Number :- 55560  
Chassis Number :- 51843  
Vehicle Color :- WHITE  
Vehicle Make :- MAHINDRA  
Vehicle Model :- BOLERO  
Type Of Engine :- 4S  
Type of Vehicle :- 4W  
Owner :- HRIDAY GANGULY  
Driver :- SELF

Contact :- 9749820841  
Oil Temperature :- 0  
Fuel :- Diesel  
Test Fee :- 100  
Result :- Pass

Valid Upto :- 05-01-2020

	Ideal RPM	Max RPM	K Value	HSU Value	Oil Temp
1	850	2600	0.01	0.22	0
2	850	2740	0.01	0.33	0
3	1030	2710	0.01	0.22	0
Avg	910.00	2686.00	0.01	0.26	

Name of Emission Centre: **WTO EMISSION CENTRE**  
Purba Medinipur, Bankura

**प्रदूषण नियंत्रित प्रमाण-पत्र**  
**POLLUTION UNDER CONTROL CERTIFICATE**  
परिवहन विभाग, उत्तर प्रदेश, लखनऊ  
**TRANSPORT DEPARTMENT, GOVT. OF UTTAR PRADESH, LUCKNOW**

**ALL INDIA VALID**

संख्या **834**  
S.No. **834**

प्रमाणपत्र संख्या  
POCC No. **0808/2019**

वाहन पंजी संख्या  
Vehicle Reg. No. **UP17AT7753**

मेक  
Make **MAHINDRA**

मॉडल  
Model **400**

वर्ग  
Category **400**

इंजन स्ट्रोक  
Engine Stroke **400**

वर्ष  
Year **2011**

फ्यूल  
Fuel **DIESEL**

दिनांक  
Date **24/09/2019**

समय  
Time **09:24:15 PM**

वैधता  
Valid upto **23/03/2020**

प्रमाणित किया जाता है कि इस वाहन का CO, HC, NOx, SOx, PM, और अन्य प्रदूषक 115(2) के नियमों के अनुसार हैं।  
यदि आप को कोई शिकायत या टिप्पणी है तो कृपया प्रदूषण नियंत्रण प्रयोग, परिवहन आगुलत कार्यालय, 201 कोठी लखनऊ, उत्तर प्रदेश को लिखें।  
In case of any comment/complaint, Please write to Pollution Control Cell, Transport Commissioner Office, Tehari Kothi Lucknow, U.P.

Test No.	PPM Min.	PPM Max.	PPM Mean	PPM Std.	Temp.
1	730	2960	8.43	15.3	70
2	741	3006	8.40	15.0	70
3	578	2482	7.45	15.0	70
4	763	3036	7.54	15.0	70
5	988	2970	7.25	14.7	70
Mean			7.23	14.2	

अधिकृत अधिकारी  
Authorized Signatory

अधिकृत संकेत  
Authorized Centre Code **687**

**NARENDRA PRAYAVARAN SEWA SAMITI**  
VIII, Shiv Nagar, Dhoohri, P.O. Jakota, Distt. Bulandshahr (U.P.) Mob.: 9761953426

Bankura- Package BK/03

**POLLUTION UNDER CONTROL CERTIFICATE**  
Computerized Emission Test Certificate  
**M/S KOMAL MOTOR & CRANE SERVICE**  
OPPOSITE INDIAN BANK, H.B. ROAD, KOKAR, RANCHI-834009 | Mob.: 9955075923  
Transport Department of Jharkhand

License No. **49/18**

प्लेट नं.  
Reg. No. **JH08B99114**

मेक  
Make **ACE**

मॉडल  
Model **14KW**

वर्ष  
Reg. Year **2011**

फ्यूल  
Fuel **DIESEL**

चैसिस  
Chassis No. **93712**

टेस्ट डेटा  
Test Date **31-Oct-2019**

टेस्ट टाइम  
Test Time **6:04:15 PM**

ओनर नाम  
Owner Name **HARCOM ENG. WORKS**

टेस्ट फीस  
Test Fee **300**

Flash Test Code	PPM Min.	PPM Max.	Temp.
308	2672	27	
S.No.	PPM Min.	PPM Max.	Km/h
1	730	2538	0.11
2	1008	2532	0.11
3	2221	2045	0.11
Mean			0.11

**5114**

Result **Pass**

Valid Till **23-Apr-2020**

This vehicle meets the standard prescribed by Rule 115(2) of Central Motor Vehicle Rule 1989.  
This Certificate is valid for Six Months only.

**ALL INDIA VALID**

Seal of Testing Centre

**Shankar Kumar**  
Authorized Signatory

## APPENDIX 3: LABOUR LICENSE

North 24 Pgs

Package: WBDWSIP/DWW/ N-24P/NCB/01/2017-18: WTP- Bulk water supply



**GOVERNMENT OF WEST BENGAL**  
OFFICE OF THE ASSISTANT LABOUR COMMISSIONER, BARASAT  
34, K.N.C. Road (Station Road), Top Floor, Barasat, Pin Code - 700124

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

Licence No. : **BRS15/CLI/000443**

Date : **20th May, 2019**

Lic Fees	250
S.Deposit	10000

**LICENCE**

Licence is hereby granted to **FFIL-RIL JV** at **1582 RAJDANGA MAIN ROAD 7TH FLOOR KASBA NEW MARKET, Ward.107, PS - Kasba, Kolkata, Pin Code - 700107** 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: **18th May, 2020.**

**DEBOJYOTI  
BOSE**

Digitally signed by  
DEBOJYOTI BOSE  
Date: 2019.05.20  
11:25:38 +05'30'

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

Assistant Labour Commissioner  
Barasat, North 24 Parganas

**Establishment Information:**

Executive Engineer, North-24 Parganas Water Supply Division-II, PHE Dte. [BRS15/CLR/000207]

W.Site - Utility Building, Tank No.-3, 2nd Floor, Action Area-IA, New Town, Kolkata,

Notified Area- NKDA, NKDA, Barasat - 700156, PS - New Town, North 24 Parganas

**Work site exact location:**

WATER TREATMENT PLANT NEAR TANK NO. 1 ACTION AREA 1 NEW TOWN RAJARHAT

Notified Area-NKDA, Barasat

PS - New Town, District - North 24 Parganas, Pin Code - 700156



## ANNEXURE

The licence is subject to the following conditions:

- (1). The licence shall be non-transferable.
- (2). The number of workmen employed as contract labour in the establishment shall not on any day, exceed **100 (One Hundred )**.
- (3). Except as provided in the rules the fees paid for the grant, or as the case may be, for renewal of the licence shall be non-refundable.
- (4). The rates of wages payable to the workmen by the contractor shall not be less than the rates prescribed for the Schedule of employment under the Minimum Wages Act, 1948, where applicable, and where the rates have been fixed by agreement, settlement or award, not less than the rates fixed.
- (5). In cases where the workmen employed by the contractor perform the same or similar kind of work: as the workmen directly employed by the principal employer of the establishment, the wage rates, holidays, hours of work and other conditions of service of the workmen of the contractor shall be the same as applicable to the workmen directly employed by the principal employer of the establishment on the same or similar kind of work provided that in the case of any disagreement with regard to the type of work the same shall be decided by the Labour Commissioner, West Bengal, whose decision shall be final.
- (6). In other cases the wage rates, holidays, hours of work and conditions of service of the workmen of the contractor shall be such as may be specified in this behalf by the Labour Commissioner, West Bengal.
- (7). In every establishment where 50 or more, women having children are ordinarily employed as contract labour there shall be provided 2 rooms of reasonable dimensions for the use of their children under the age of six years. One of such rooms would be used as a play room for the children and the other as bed room for the children. For this purpose the contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the sleeping room. The standard of construction and maintenance of the creches may be such as may be specified in this behalf by the Labour Commissioner, West Bengal.
- (8). The Licensee shall notify any change in the number of workmen or the conditions of work to the Licensing Officer.

Package: WBDWSIP/DWW/NCB/N24P/02A/2017-18: Haroa Block



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(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. Dte. [BST09/CLR/000058]

W.Site - Utility Building, Tank No.-3, 2nd Floor, Action Area-IA, 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

## ANNEXURE

The licence is subject to the following conditions:

(1). The licence shall be non-transferable.

(2). The number of workmen employed as contract labour in the establishment shall not on any day, exceed **300 (Three Hundred )**.

(3). Except as provided in the rules the fees paid for the grant, or as the case may be, for renewal of the licence shall be non-refundable.

(4). The rates of wages payable to the workmen by the contractor shall not be less than the rates prescribed for the Schedule of employment under the Minimum Wages Act, 1948, where applicable, and where the rates have been fixed by agreement, settlement or award, not less than the rates fixed.

(5). In cases where the workmen employed by the contractor perform the same or similar kind of work as the workmen directly employed by the principal employer of the establishment, the wage rates, holidays, hours of work and other conditions of service of the workmen of the contractor shall be the same as applicable to the workmen directly employed by the principal employer of the establishment on the same or similar kind of work provided that in the case of any disagreement with regard to the type of work the same shall be decided by the Labour Commissioner, West Bengal, whose decision shall be final.

(6). In other cases the wage rates, holidays, hours of work and conditions of service of the workmen of the contractor shall be such as may be specified in this behalf by the Labour Commissioner, West Bengal.



(7). In every establishment where 50 or more, women having children are ordinarily employed as contract labour there shall be provided 2 rooms of reasonable dimensions for the use of their children under the age of six years. One of such rooms would be used as a play room for the children and the other as bed room for the children. For this purpose the contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the sleeping room. The standard of construction and maintenance of the creches may be such as may be specified in this behalf by the Labour Commissioner, West Bengal.

(8). The Licensee shall notify any change in the number of workmen or the conditions of work to the Licensing Officer.



Package: WBDWSIP/DWW/NCB/N24P/02B/2017-18: Bhangar - II Block

labour licence  
DWS Bhangar II  
26/12/19



**GOVERNMENT OF WEST BENGAL**  
OFFICE OF THE DEPUTY LABOUR COMMISSIONER, BARUIPUR  
South 24 Parganas, Nandarani Complex (1st & 2nd Floor) (Opp. 218 Bus Stand) Holding No - 474, Kulpi Road,  
Ward No - 5, Shibaniipith, Baruiপুর, Kolkata-700144

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

Licence No.: **BRP04/CLL/000191** Date: **27th Dec, 2018**

Lic Fees	1000
S. Deposit	30000

**LICENCE**

Licence is hereby granted to **NCC LIMITED** at **Eco Space Business Park, Block 4A, 5th Floor, Action Area-II, Newtown -700156, Patharghata, Block- Rajarhat, Barasat, PS - New Town, District - North 24 Parganas, Pin Code - 700156** 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: **26th Dec, 2019.**

**Tapas Kumar Sinha Roy**  
Digitally signed by Tapas Kumar Sinha Roy  
Date: 2018.12.27 15:32:23 +05'30'  
Licensing Officer  
Under the Contract Labour(R&A) Act, 1970  
&  
Assistant Labour Commissioner  
Baruiপুর, South 24 Parganas  
(BRP04/CLR/000092)

**Establishment Information:**  
Office of the Executive Engineer North 24 Parganas Water Supply Division II PHE Dte. (BRP04/CLR/000092)  
W.Site - Utility Building, Tank No.-3, 2nd Floor, Action Area-IA, New Town, Kolkata.  
Bhogali-II, Block - Bhangar - II, Baruiপুর - 700135, PS - Kashipur, South 24 Parganas

**Work site exact location:**  
VIII. Kantadanga, P.O. Shonepur  
Bhogali-II, Block - Bhangar - II, Baruiপুর  
PS - Bhangar, District - South 24 Parganas, Pin Code - 700135



1 of 2

## ANNEXURE

The licence is subject to the following conditions:

- (1). The licence shall be non-transferable.
- (2). The number of workmen employed as contract labour in the establishment shall not on any day, exceed **300 (Three Hundred)**.
- (3). Except as provided in the rules the fees paid for the grant, or as the case may be, for renewal of the licence shall be non-refundable.
- (4). The rates of wages payable to the workmen by the contractor shall not be less than the rates prescribed for the Schedule of employment under the Minimum Wages Act, 1948, where applicable, and where the rates have been fixed by agreement, settlement or award, not less than the rates fixed.
- (5). In cases where the workmen employed by the contractor perform the same or similar kind of work as the workmen directly employed by the principal employer of the establishment, the wage rates, holidays, hours of work and other conditions of service of the workmen of the contractor shall be the same as applicable to the workmen directly employed by the principal employer of the establishment on the same or similar kind of work provided that in the case of any disagreement with regard to the type of work the same shall be decided by the Labour Commissioner, West Bengal, whose decision shall be final.
- (6). In other cases the wage rates, holidays, hours of work and conditions of service of the workmen of the contractor shall be such as may be specified in this behalf by the Labour Commissioner, West Bengal.
- (7). In every establishment where 50 or more, women having children are ordinarily employed as contract labour there shall be provided 2 rooms of reasonable dimensions for the use of their children under the age of six years. One of such rooms would be used as a play room for the children and the other as bed room for the children. For this purpose the contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the sleeping room. The standard of construction and maintenance of the creches may be such as may be specified in this behalf by the Labour Commissioner, West Bengal.
- (8). The Licensee shall notify any change in the number of workmen or the conditions of work to the Licensing Officer.

*Certificate DWS Bm 1*



**GOVERNMENT OF WEST BENGAL**  
**OFFICE OF THE DEPUTY LABOUR COMMISSIONER, BARUIPUR.**  
South 24 Parganas, Nandarami Complex (1st & 2 nd Floor) (Opp. 218 Bus Stand) Holding No - 474, Kalpi Road,  
Ward No - 5, Shibaniptith, Baruiapur, Kolkata-700144

**FORM II**  
[ See Rule 24(1) ]

**CERTIFICATE OF REGISTRATION**

Registration No. : BRP04/BCR/000048

Date : 17th Jan, 2019

A Certificate of Registration is hereby granted under Sub-section(3) of Section 7 of the Building and other Construction Workers' (Regulation of Employment and Conditions of Service) Act, 1996 and the rules made thereunder to M/s NCC LIMITED, having the following particulars subject to conditions laid down in the Annexure:

1	Postal Address / location where building or other construction work to be carried on by the Employer	NCC LTD, Bhogali-II, Block - Bhanger - II, Baruiapur - 700135, PS - Bhanger, South 24 Parganas  NCC LIMITED VILL. KANTADANGA, Bhogali-II, Block - Bhanger - II, Baruiapur - 700135, PS - Bhanger, South 24 Parganas
2	Name and Addresses of Employer including location of the building and other construction work	MRINAL BANERJEE 23, BIDHANPALLI, JADAVPUR, Ward.96, PS - Jadavpur, Kolkata- 700032

Tapas Kumar Sinha Roy  
Digitally signed by Tapas Kumar Sinha Roy  
Date: 2019.01.17 13:58:34 +05'30'

[Signature & Seal of Registering Officer]  
Assistant Labour Commissioner  
Baruiapur, South 24 Parganas

1 of 3



	Name and permanent address of the Establishment	NCC LIMITED VILL. KANTADANGIA, Bhongal-II, Block - Bhanger - II, Barasipur - 700135, PS - Bhanger, South 24 Parganas
4	Nature of work in which building workers are employed or are to be employed	CONSTRUCTION
5	Maximum number of building workers to be employed on any day by the employer	300
6	Probable date of commencement and completion of work	19th Sep, 2018 to 18th Aug, 2023
7	Other particulars relevant to the employment of building workers	IPSC Code :- SMIND000001, Bank Transaction Id :- 90013676 Total Amount :- ₹ 2000, Transaction Date :- 14/01/2019 00:00:00

Tapas  
Kumar  
Sinha Roy

Digitally signed  
by Tapas Kumar  
Sinha Roy  
Date: 2019.01.17  
13:56:23 +05'30'

[Signature & Seal of Registering Officer]

Assistant Labour Commissioner

Barasipur, South 24 Parganas

## ANNEXURE

The registration granted hereinabove is subject to the following conditions, namely:-

- (1). The certificate of registration shall be non-transferable.
- (2). The number of workmen employed or building workers in the establishment shall not, on any day, exceed the maximum number specified in the certificate of registration.
- (3). Save or otherwise provided in these rules, the fees paid for the grant of registration certificate shall be non-refundable.
- (4). The rates of wages payable to building workers by the employer shall not be less than the rates prescribed under the Minimum Wages Act, 1948 (II of 1948) for such employment where applicable, and where the rates have been fixed by agreement, settlement or award, not less than the rates so fixed, and
- (5). The employer shall comply with the provisions of the Act and the rules made thereunder.

Tapas  
Kumar  
Sinha Roy

Digitally signed  
by Tapas Kumar  
Sinha Roy  
Date: 2019.01.17  
13:56:46 +05'30'



[Signature & Seal of Registering Officer]

Assistant Labour Commissioner  
Baruipur, South 24 Parganas

## **BANKURA**

**Package: WBDWSIP/DWW/NCB/ BK/01/2017-18- WTP intake -Indpur and Taldangra block**

*Package - 01*



**GOVERNMENT OF WEST BENGAL**  
OFFICE OF THE ASSISTANT LABOUR COMMISSIONER, KHATRA  
Office Of The Assistant Labour Commissioner, Khatra Dhalai Road PO & PS- khatra Dist.- Bankura Pin-722140

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

Licence No. : **KTR11/CLL/000041** Date : **10th Jun, 2019**

Lic Fees	125
S. Deposit	5000

**LICENCE**

Licence is hereby granted to **M/S TECHNOFAB ENGINEERING -SN ENVIROTECH JV** at **Baraghutu Road Near Guest House of Tourism Department Govt of West Bengal Shivrampur Lohadih, Gorabari, Block- Khatra , Khatra, PS - Khatra , District - Bankura, Pin Code - 722140** 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: **08th Jun, 2020.**

**AMIT RAY**  
Digitally signed by AMIT RAY  
Date: 2019.06.10 16:19:29 +05'30'  
**Licensing Officer**  
Under the Contract Labour(R&A) Act, 1970  
&  
**Assistant Labour Commissioner**  
**Khatra, Bankura**

**Establishment Information:**  
Bankura Water Supply Division Public Health Engineering Directorate [BAN08/CLR/000038]  
W Site - Ailekundi, PHE Complex ,  
Anchuri, Block - Bankura -I , Bankura Sadar - 722102, PS - Bankura , Bankura

**Work site exact location:**  
Baraghutu Road Near Guest House of Tourism Department Govt of West Bengal Shivrampur Lohadih  
Gorabari, Block- Khatra , Khatra  
PS - Khatra , District - Bankura, Pin Code - 722140



## ANNEXURE

The licence is subject to the following conditions:

- (1). The licence shall be non-transferable.
- (2). The number of workmen employed as contract labour in the establishment shall not on any day, exceed 50 (Fifty).
- (3). Except as provided in the rules the fees paid for the grant, or as the case may be, for renewal of the licence shall be non-refundable.
- (4). The rates of wages payable to the workmen by the contractor shall not be less than the rates prescribed for the Schedule of employment under the Minimum Wages Act, 1948, where applicable, and where the rates have been fixed by agreement, settlement or award, not less than the rates fixed.
- (5). In cases where the workmen employed by the contractor perform the same or similar kind of work as the workmen directly employed by the principal employer of the establishment, the wage rates, holidays, hours of work and other conditions of service of the workmen of the contractor shall be the same as applicable to the workmen directly employed by the principal employer of the establishment on the same or similar kind of work provided that in the case of any disagreement with regard to the type of work the same shall be decided by the Labour Commissioner, West Bengal, whose decision shall be final.
- (6). In other cases the wage rates, holidays, hours of work and conditions of service of the workmen of the contractor shall be such as may be specified in this behalf by the Labour Commissioner, West Bengal.
- (7). In every establishment where 50 or more, women having children are ordinarily employed as contract labour there shall be provided 2 rooms of reasonable dimensions for the use of their children under the age of six years. One of such rooms would be used as a play room for the children and the other as bed room for the children. For this purpose the contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the sleeping room. The standard of construction and maintenance of the creches may be such as may be specified in this behalf by the Labour Commissioner, West Bengal.
- (8). The Licensee shall notify any change in the number of workmen or the conditions of work to the Licensing Officer.

Package: WBDWSIP/DWW/NCB/BK/02A/2018-19- OHSR & Distribution Indpur block.



**GOVERNMENT OF WEST BENGAL**  
OFFICE OF THE ASSISTANT LABOUR COMMISSIONER, KHATRA  
Office Of The Assistant Labour Commissioner, Khatra Dhalai Road PO & PS- khatra Dist- Bankura Pin-722140

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

Licence No. : **KTR09/CLL/000044**

Date : **21st Aug, 2019**

Lic Fees	250
S.Deposit	10000

**LICENCE**

Licence is hereby granted to **Larsen & Toubro Limited** at **Ward No. 9 Holding no. 95/B/11, Uttar Aurobindo Nagar, Junbedia More, Bankura Municipality, Ward- 9, Bankura Sadar, PS - Bankura, District - Bankura, Pin Code - 722101** 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: **19th Aug, 2020.**

**AMIT  
RAY**

Digitally signed  
by AMIT RAY  
Date: 2019.08.21  
15:28:37 +05'30'

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

**Establishment Information:**

Project Implimentation Unit, Public Heath Engineering Directorate [BAN08/CLR/000038]

W.Site - Ailakundi, PHE Complex,

Anchuri, Block - Bankura -I, Bankura Sadar - 722102, PS - Bankura, Bankura

**Work site exact location:**

INDPUR PROJECT

Bheduasole, Block- Indpur, Khatra

PS - Chhatna, District - Bankura, Pin Code - 722136



## ANNEXURE

The licence is subject to the following conditions:

- (1). The licence shall be non-transferable.
- (2). The number of workmen employed as contract labour in the establishment shall not on any day, exceed **100 (One Hundred )**.
- (3). Except as provided in the rules the fees paid for the grant, or as the case may be, for renewal of the licence shall be non-refundable.
- (4). The rates of wages payable to the workmen by the contractor shall not be less than the rates prescribed for the Schedule of employment under the Minimum Wages Act, 1948, where applicable, and where the rates have been fixed by agreement, settlement or award, not less than the rates fixed.
- (5). In cases where the workmen employed by the contractor perform the same or similar kind of work: as the workmen directly employed by the principal employer of the establishment, the wage rates, holidays, hours of work and other conditions of service of the workmen of the contractor shall be the same as applicable to the workmen directly employed by the principal employer of the establishment on the same or similar kind of work provided that in the case of any disagreement with regard to the type of work the same shall be decided by the Labour Commissioner, West Bengal, whose decision shall be final.
- (6). In other cases the wage rates, holidays, hours of work and conditions of service of the workmen of the contractor shall be such as may be specified in this behalf by the Labour Commissioner, West Bengal.
- (7). In every establishment where 50 or more, women having children are ordinarily employed as contract labour there shall be provided 2 rooms of reasonable dimensions for the use of their children under the age of six years. One of such rooms would be used as a play room for the children and the other as bed room for the children. For this purpose the contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the sleeping room. The standard of construction and maintenance of the creches may be such as may be specified in this behalf by the Labour Commissioner, West Bengal.
- (8). The Licensee shall notify any change in the number of workmen or the conditions of work to the Licensing Officer.



Package: WBDWSIP/DWW/NCB/ BK/02B/2018-19- OHSR & Distribution Taldangra block.



**GOVERNMENT OF WEST BENGAL**  
OFFICE OF THE ASSISTANT LABOUR COMMISSIONER, KHATRA  
Office Of The Assistant Labour Commissioner, Khatra Dhalai Road PO & PS- khatra Dist.- Bankura Pin-722140

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

Licence No. : **KTR16/CLL/000043**      Date : **21st Aug, 2019**

Lic Fees	250
S.Deposit	10000

**LICENCE**

Licence is hereby granted to **Larsen & Toubro Limited** at Ward No. 9 Holding no. 95/B/11, Uttar Aurobindo Nagar, Junbedia More, Bankura Municipality, Ward- 9, Bankura Sadar, PS - Bankura, District - Bankura, Pin Code - 722101 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: **19th Aug, 2020.**

**AMIT RAY**  
Digitally signed by AMIT RAY  
Date: 2019.08.21 15:23:34 +05'30'  
Licensing Officer  
Under the Contract Labour(R&A) Act, 1970  
&  
Assistant Labour Commissioner  
Khatra, Bankura

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



**Work site exact location:**  
Taldangra Project, Vill:- Chechuriya, Near Chechuriya Eco park.  
Taldangra, Block- Taldangra, Khatra  
PS - Taldangra, District - Bankura, Pin Code - 722152

## ANNEXURE

The licence is subject to the following conditions:

- (1). The licence shall be non-transferable.
- (2). The number of workmen employed as contract labour in the establishment shall not on any day, exceed **100 (One Hundred )**.
- (3). Except as provided in the rules the fees paid for the grant, or as the case may be, for renewal of the licence shall be non-refundable.
- (4). The rates of wages payable to the workmen by the contractor shall not be less than the rates prescribed for the Schedule of employment under the Minimum Wages Act, 1948, where applicable, and where the rates have been fixed by agreement, settlement or award, not less than the rates fixed.
- (5). In cases where the workmen employed by the contractor perform the same or similar kind of work: as the workmen directly employed by the principal employer of the establishment, the wage rates, holidays, hours of work and other conditions of service of the workmen of the contractor shall be the same as applicable to the workmen directly employed by the principal employer of the establishment on the same or similar kind of work provided that in the case of any disagreement with regard to the type of work the same shall be decided by the Labour Commissioner, West Bengal, whose decision shall be final.
- (6). In other cases the wage rates, holidays, hours of work and conditions of service of the workmen of the contractor shall be such as may be specified in this behalf by the Labour Commissioner, West Bengal.
- (7). In every establishment where 50 or more, women having children are ordinarily employed as contract labour there shall be provided 2 rooms of reasonable dimensions for the use of their children under the age of six years. One of such rooms would be used as a play room for the children and the other as bed room for the children. For this purpose the contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the sleeping room. The standard of construction and maintenance of the creches may be such as may be specified in this behalf by the Labour Commissioner, West Bengal.
- (8). The Licensee shall notify any change in the number of workmen or the conditions of work to the Licensing Officer.

**Package: WBDWSIP/DWW/NCB/ BK/03/2018-19- WTP Intake Mejhia and Gangajalghati Block**



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

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

Licence No. : **BAN04/CLL/000188** Date : **13th Aug, 2019**

Lic Fees	250
S. Deposit	10000

**LICENCE**

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

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

**ASHIS KUMAR GARAI**  
Digitally signed by ASHIS KUMAR GARAI  
Date: 2019.08.13 17:34:14 +05'30'

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

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

**Work site exact location:**  
Mejhia Intake & WTP Project, Vill-Radhamadhabpur  
Gangajalghati, Block- Gangajal Ghati, Bankura Sadar  
PS - Gangajalghati, District - Bankura, Pin Code - 722133



## ANNEXURE

The licence is subject to the following conditions:

- (1). The licence shall be non-transferable.
- (2). The number of workmen employed as contract labour in the establishment shall not on any day, exceed **100 (One Hundred )**.
- (3). Except as provided in the rules the fees paid for the grant, or as the case may be, for renewal of the licence shall be non-refundable.
- (4). The rates of wages payable to the workmen by the contractor shall not be less than the rates prescribed for the Schedule of employment under the Minimum Wages Act, 1948, where applicable, and where the rates have been fixed by agreement, settlement or award, not less than the rates fixed.
- (5). In cases where the workmen employed by the contractor perform the same or similar kind of work as the workmen directly employed by the principal employer of the establishment, the wage rates, holidays, hours of work and other conditions of service of the workmen of the contractor shall be the same as applicable to the workmen directly employed by the principal employer of the establishment on the same or similar kind of work provided that in the case of any disagreement with regard to the type of work the same shall be decided by the Labour Commissioner, West Bengal, whose decision shall be final.
- (6). In other cases the wage rates, holidays, hours of work and conditions of service of the workmen of the contractor shall be such as may be specified in this behalf by the Labour Commissioner, West Bengal.
- (7). In every establishment where 50 or more, women having children are ordinarily employed as contract labour there shall be provided 2 rooms of reasonable dimensions for the use of their children under the age of six years. One of such rooms would be used as a play room for the children and the other as bed room for the children. For this purpose the contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the sleeping room. The standard of construction and maintenance of the creches may be such as may be specified in this behalf by the Labour Commissioner, West Bengal.
- (8). The Licensee shall notify any change in the number of workmen or the conditions of work to the Licensing Officer.

ASHIS KUMAR  
GARAI

Digitally signed by ASHIS  
KUMAR GARAI  
Date: 2019.08.13 17:35:02  
+05'30'

**Package: WBDWSIP/DWW/NCB/BK/04/2018-19- OHSR & Distribution - Mejhia and Gangajalghati Block**



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

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

Licence No. : **BAN04/CLL/000187**

Date : **13th Aug, 2019**

Lic Fees	250
S. Deposit	10000

**LICENCE**

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

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

**ASHIS KUMAR  
GARAI**

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

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

*&*  
*Assistant Labour Commissioner*  
*Bankura Sadar, Bankura*

**Establishment Information:**

Project Implementation Unit, Public Health Engineering Directorate [BAN08/CLR/000038]

W.Site - Ailakundi, PHE Complex,

Anchori, Block - Bankura -I, Bankura Sadar - 722102, PS - Bankura, Bankura

**Work site exact location:**

Mejhia Distribution Project

Gangajalghati, Block- Gangajal Ghati, Bankura Sadar

PS - Gangajalghati, District - Bankura, Pin Code - 722133

## ANNEXURE

The licence is subject to the following conditions:

- (1). The licence shall be non-transferable.
- (2). The number of workmen employed as contract labour in the establishment shall not on any day, exceed **100 (One Hundred )**.
- (3). Except as provided in the rules the fees paid for the grant, or as the case may be, for renewal of the licence shall be non-refundable.
- (4). The rates of wages payable to the workmen by the contractor shall not be less than the rates prescribed for the Schedule of employment under the Minimum Wages Act, 1948, where applicable, and where the rates have been fixed by agreement, settlement or award, not less than the rates fixed.
- (5). In cases where the workmen employed by the contractor perform the same or similar kind of work: as the workmen directly employed by the principal employer of the establishment, the wage rates, holidays, hours of work and other conditions of service of the workmen of the contractor shall be the same as applicable to the workmen directly employed by the principal employer of the establishment on the same or similar kind of work provided that in the case of any disagreement with regard to the type of work the same shall be decided by the Labour Commissioner, West Bengal, whose decision shall be final.
- (6). In other cases the wage rates, holidays, hours of work and conditions of service of the workmen of the contractor shall be such as may be specified in this behalf by the Labour Commissioner, West Bengal.
- (7). In every establishment where 50 or more, women having children are ordinarily employed as contract labour there shall be provided 2 rooms of reasonable dimensions for the use of their children under the age of six years. One of such rooms would be used as a play room for the children and the other as bed room for the children. For this purpose the contractor shall supply adequate number of toys and games in the play room and sufficient number of cots and beddings in the sleeping room. The standard of construction and maintenance of the creches may be such as may be specified in this behalf by the Labour Commissioner, West Bengal.
- (8). The Licensee shall notify any change in the number of workmen or the conditions of work to the Licensing Officer.

**ASHIS KUMAR  
GARAI**

Digitally signed by ASHIS  
KUMAR GARAI  
Date: 2019.08.13 17:31:17  
+05'30'



## APPENDIX 4: SCANNED COPY OF CONTRACTOR'S INSURANCE FOR WORKERS AND ALL RISK POLICY

NORTH 24 PGS

Package: WBDWSIP/DWW/NCB/N24P/01/2017-18- Bulk WS WTP  
WC policy



**Royal Sundaram**  
General Insurance

**Royal Sundaram General Insurance Co., Limited**  
(Formerly known as Royal Sundaram General Insurance Company Limited)  
"Millennium City", Information Technology Park, Unit No. T-2/2A,  
Tower-II, Plot No. DN-02, Sector-V, Salt Lake, Kolkata - 700 031.  
Tel. Nos. : 033-4222 7311 | Fax No.: 033-2367 5523  
E-mail No.: 1946-423-0000 | E-mail: customer.services@royalsundaram.in  
Website: www.royalsundaram.in  
Registered Office: 21, Pandit Road, Chennai - 600 002.  
IRDAI Registration Number - 102 / CIN-467200TN2000PLC045641

**WORKMEN'S COMPENSATION INSURANCE POLICY  
SCHEDULE**

**Intermediary Code** : OA504383  
**Intermediary Name** : Saibal Sengupta  
**Contact** : 9831176521

**Policy No.** LW00010835000100

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**Insured Name and Address** : Furnace Fabrica India Ltd  
 : 1562, Raydanga Main Road  
 : Kasba New Market, 7th Floor

**Business** : Civil Construction works as per Specification attached

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**Law(s)**

The Policy will provide coverage under the following Law(s)

- WC Act 1923 and subsequent amendment of the said Act
- The Fatal Accident Act 1855
- Or Common Law

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**Period of Insurance** 12 Months

**From** 00.00 Hrs. of 01/04/2019 to 23.59:59 on 31/03/2020

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**Premium** Rs. 3,62,260/- (Including Rs. 55,260/- GST.)

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Subject to adjustment in the terms of Condition 6 the estimated amount of wages salaries and other earnings on which Premium is based.

Estimated Number of Employees (A)	Occupation of Employees (B)	Estimated Total Salaries Wages and other money earnings per employee (C)	Estimated Total Earnings (D=A*C)	Place or Places of Employment. (E)
As per the Specification attached				

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**Date of signature of Proposal and Declaration** 01/04/2018


## All Risk Policy

 <b>Royal Sundaram</b> General Insurance		<b>ROYAL SUNDARAM GENERAL INSURANCE CO., LIMITED</b> <small>             (Incorporated in India) Registered Office: 21, Park Road, Chennai - 600 002.              Corporate Office: Vigneshwari Maheshwari Towers, No. 2/113, Anna Salai (Old), Kankarbagh, Chennai - 600 002.              Call: 1860 425 8808, Email: <a href="mailto:corporate@royalsundaram.co.in">corporate@royalsundaram.co.in</a>              Website: <a href="http://www.royalsundaram.co.in">www.royalsundaram.co.in</a>              IRDA Registration No. 107   CTN - MC75007NCR0000045411           </small>
<b>ERECTION ALL RISKS INSURANCE SCHEDULE</b>		
<b>Intermediary Code</b>		<b>OA504383</b>
<b>Intermediary Name</b>		<b>Saibal Sengupta</b>
<b>Contact No.</b>		<b>9831176521</b>
<b>Policy Number</b>	<b>ER00004725000100</b>	
<b>Policy Servicing Office</b>	<b>Millennium City Information Technology Park Unit No T-2-2A, Tower 2 Plot No : DN-62, Sector -V, Salt Lake Kolkata - 700 091</b>	
<b>Name and Address of the Principal</b>	<b>Public Health Engineering Directorate,, Govt. of West Bengal, Project Management Unit, West Bengal Drinking Water Sector Improvement Project, Utility Building, 1st Floor, (Premises No.09/1-0024), AA-IA, (Tank No.3), New Town, Kolkata -700 156</b>	
<b>Name and Address of the Contractor</b>	<b>M/S. FFIL- RIL JV, A Joint venture between M/s. Furnace Fabrica (India) Ltd., 1582, Rajdanga Main Road, Kasba New Market, 7th Floor, Kolkata-700107 and M/s. Ramky Infrastructure Ltd., at Ramky Grandiose, 15th Floor, Ramky Towers Ltd. Gachhibowli, Hyderabad-500032.</b>	
<b>Site of Erection</b>	<b>Haora, Rajarhat and Bhangar II, North &amp; South 24-Parganas, West Bengal</b>	
<b>Nature of Project</b>	<b>Scope of work will broadly include Design, Construction and operation of Water Treatment Plant, Reservoirs, Transmission Mains and Pumping Stations work in Haora, Rajarhat, and Bhangar II - Contract Package No. WBDWSIP/DWW/N24P/NCB/01/2017-18, Letter of Acceptance Memo No. PMU/WBDWSIP/PHED/33/852 dated. 19.09.2018, Contract No- WBDWSIP/DWW/N24P/NCB/01/2017-18</b>	
<b>Name and Address of the Financier</b>	<b>NA</b>	
<b>Project Period</b>	<b>: 00.00 hrs of 01-08-2019 To midnight of 31-07-2022</b>	
<b>Period of Insurance</b>	<b>: 00.00 hrs of 28-08-2019 To midnight of 31-07-2022 (Subject to Nil Liability Clause as mentioned herein)</b>	
Policy Number : ER00004725000100 UIN: IRDAN102P0017V01100001		

Page 1 of 10

**Package: WBDWSIP/DWW/NCB/N24P/02A/2017-18: Haroa Block  
WC policy**



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: 040-60013000		
Policy No	2019-L0129168-1 WC	Period of Insurance	From 00:00 04/02/2019 To Midnight 03/02/2020
Insured	NCC Limited	Intermediary Name/Code	INDIA INSURE RISK MANAGEMENT AND INSURANCE BROKING SERVICES 60001521
Address	WORKS IN HAROA BLOCK, North Twenty Four Parganas, West Bengal, 743425	Telephone(Mob,Off,Home)	4027822996/09892590738/4617822990
		Fax No & Email Id	02256791416 / PADMAJA.SURYARAJAN@INDIAINSURE.COM
GSTIN Number	19A AACN7335CTZM	FGI GSTIN Number	36AABCT0191R1ZA
In consideration of the Policyholder 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 set forth.			
Co-insurance Details		Schedule Of Premium ( ₹ )	
Insurer	Share (In %)	Gross Premium	134,304.30
FUTURE GENERALI INDIA INSURANCE COMPANY LIMITED	100%	Growth and Service Tax	24,174.79
		Total Premium	158,479.09
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	8,642,000.00	
50	Skilled workers	6,048,000.00	
50	Semi Skilled Workers	5,490,000.00	
50	Unskilled Workers	4,080,000.00	
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 and 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 amendments 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 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 at heights Contractors and sub contractors employees are covered.			
Important:- 1. All other Terms, Conditions and Exclusions as per attached Policy Wording. 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	29665378	 (Authorized Signatory)	
Date of Issue	07/02/2019		
Place of Insurance	Mumbai*		
*Address as mentioned below.			
<b>Note: This document is digitally signed by Sharada Ramakrishnan, Authorised Signatory of Future Generali India Insurance Company Limited on 07/02/2019</b>			

The stamp duty of Rs 67.15 paid by Letter Of Authorisation No.CSD/118/2018/3179/18, dated 16/08/2018, Mumbai - 20)7/C.R.97/M-1, dated 09/01/2018.

Product UIN : IRDANI32P0012V01200708



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



## All Risk Policy



### Erection All Risk Insurance - Endorsement

Policy Servicing Office	1. Off Code-05, Future Generali India Insurance Co Ltd, 1st Floor, D.No.7-1-33A, APDL Estate Opp Country Club, Begumpet, Hyderabad, Telangana, Pincode - 500016, Tel No:-040-66028000		
Policy No	2. DE-EE658501-EAR-E063	Period of Insurance	3. From 00:00 13/12/2018 To midnight of 12/12/2021
Insured	4. NCC Limited	Intermediary Name/Code	5. INDIA INSURE RISK MANAGEMENT AND INSURANCE BROKING SERVICES,60001521
Address	6. Survey No.84, NCC House, Madhapur, HYDERABAD, Telangana, 500081	Telephone (Mobi, Off, Home)	7. 4827822990/09092596718/4827822990
		Fax No & Email Id	8. 02256791416 / PADMAJASURYARAJAN@INDIAINSURE.COM
GSTIN Number	9. 19AAACN733C1Z31	PGI GSTIN Number	10. 36AABCT0151H1ZA
Policy No.	2018-12058501-EAR-E063		
Enforcement effective date	13/09/2019		
Enforcement no.	003		
Additions/Refund Premium	₹. 527,755.00		
Goods and Service Tax	₹. 94,995.90		
Total	₹. 622,751.00		
Note: Intending anything stated to the contrary, it is hereby declared and agreed that the 4th installment premium of ₹.622,751/- is collected from the Insured.			

Product UIN : IRDAN132P0005V01200708

Place : Mumbai\*  
Date : 18/09/2019

For Future Generali India Insurance Co. Ltd.


*Sharda*  
Authorised Signatory



Future Generali India Insurance Company Limited, Corporate & Registered Office: 8th Floor, Tower - A, Indira Park Financial Centre, Sanghi Nagar, Marg, Hyderabad Road, Mumbai - 400043, Maharashtra. Contact No: 1800-220-233, 1800-300-3333, 022-67877004, Email: fgic@futuregenerali.co.in, Website: www.futuregenerali.co.in, IRDA Regn No. 132, CIN - U68010MH2000APL1185287.

**Package: WBDWSIP/DWW/NCB/N24P/02B/2017-18: Bhangar - II Block  
WC Policy**



Workmen's Compensation Policy: Policy Schedule			
Policy Issuing Office:	Off Code-15, Future Generali India Insurance Co. Ltd, 1st Floor D.No.7-1-21A, APOL Estate Opp. Country Club, Begumpet, Hyderabad, Telangana, Pincode-500016, Tel. No: 040-66038603		
Policy No:	2019-1/0129169-FWC	Period of Insurance:	From 00:00 08/02/2019 To Midnight of 03/03/2020
Insured:	NCC Limited	Intermediary Name/Code:	INDIA INSURE RISK MANAGEMENT AND INSURANCE BROKING SERVICES/0001521
Address:	BHANGAR II BLOCK, South Twenty Four Parganas, West Bengal, 743502	Telephone(Mob,Off,Home):	4027822990/09892590738/4027822990
		Fax No & Email Id:	02256791416 / PADMAJAJA.SURJYABAJAJA@INDIANSURE.COM
GSTIN Number:	19AAACN733C1ZM	PGI GSTIN Number:	36AABCT0191E1ZA
In consideration of the Policy holder agreed 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 in the extent and in the manner herein provided subject to all terms, conditions, exceptions and warranties hereunder set forth.			
Co-insurance Details		Schedule Of Premium (₹)	
Insurer:	Future Generali India Insurance Company Limited	Share (in %):	100%
		Gross Premium:	134,304.36
		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 servicing works in Bhangar II Block		
Location:	Design and Construction of overhead reservoir including water supply distribution and servicing works in Bhangar II Block		
Contracted/Job Construction Name:	NCC LTD		
No of Employees	Description of work done by Employees	Declared Wages during the Period of Insurance (₹)	
30	Highly Skilled workers	6,241,000.00	
30	Skilled workers	6,241,000.00	
30	Semi Skilled Workers	5,495,000.00	
30	Unskilled Workers	4,989,000.00	
Total		23,146,000.00	
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 thereunder in the date of issue of this Policy	Subject otherwise, to the terms, conditions & scope; Exclusions of the Policy, the extent of liability incurred by the Insured	Yes	
Contract and/or PWS Accident		Yes	
Law(s)			
WC Act 1923 and subsequent amendments of the said Act prior to the date of issue of the policy provided that the insurance granted hereunder is not intended to include: I. Any interest and/or penalty imposed on the insured on account of his/her failure to comply with the requirements laid down under WC Act 1923 II. Occupational disease of any kind			
Additional Clauses, Conditions, Warranties & scope Exclusions			
Termination 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, Drafting, 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/agents Contractors and sub-contractors/employees are covered.			
Important-1. All other Terms, Conditions and Exclusions as per attached Policy Wording. 2. In case of payment by cheque, in the event of default 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:	23065378	 (Authorized Signatory)	
Date of Issue:	07/02/2019		
Place of Issuance:	Mumbai*		
*Address mentioned below.			
Note: This document is digitally signed by Sharada Ramakrishnan, Authorized Signatory of Future Generali India Insurance Company Limited on 07/02/2019			

The stamp duty of Rs 67.15 paid by Letter Of Authorization No. CSD/18/2018/3170/18, dated 16/08/2018, is hereby - 2613IC, R 9555-1, dated 09/01/2018.

Product UIN : 18DAN132P0012V01200708



Future Generali India Insurance Company Limited, Corporate & Registered Office: 4th Floor, Tower - A, Indira Finance Centre, Begumpet Deput Mang. Hyderabad Road, Mumbai - 400013, Maharashtra. Call Lines: 1800-226-733, 1800-500-3333, 022-67877880. Email: fgnao@futuregenerali.in, Website: www.futuregenerali.in/ROA Regn.No. 132, CIN - U66010MH0000491.C165287.

## All Risk Policy



### Erection All Risk Insurance - Endorsement

Policy Servicing Office	: Off Code-IS, 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:-040-66038689		
Policy No	: 2018-ED358501-EAR-E003	Period of Insurance	: From 00:00 13/12/2018 To midnight of 12/12/2021
Insured	: NCC Limited	Intermediary Name/Code	: INDIA INSURE RISK MANAGEMENT AND INSURANCE BROKING SERVICES/00001521
Address	: Survey No.84, NCC House, Madhapur, HYDERABAD, Telangana, 500081	Telephone(Mob,Off,Home)	: 4037822990/09892506730/4037822990
		Fax No & Email Id	: 02256799446 / PADMALA.SURYARAJAN@INDIAINSURE.COM
GSTIN Number	: FRAAACN7335C1Z31	FCI GSTIN Number	: 36AABCF0191R1ZA
Policy No.	2018-ED358501-EAR-E003		
Endorsement effective date	13/09/2019		
Endorsement no.	003		
Addition/Refund Premiums	₹. 527,755.00		
Goads and Service Tax	₹. 94,995.90		
Total	₹. 622,751.00		
Notwithstanding anything stated therein to the contrary, it is hereby declared and agreed that the 4th installment premium of Rs.622,751/- is collected from the insured.			

Product UIN : URDAN122P0005V01200708

Place : Mumbai\*  
Date : 19/09/2019

For Future Generali India Insurance Co. Ltd.

*Sharda*

Authorized Signatory



Future Generali India Insurance Company Limited, Corporate & Registered Office: 8th Floor, Tower - A, Infiniti's Finance Centre, Senapati Bapat Marg, Elphinstone Road, Mumbai - 400013, Maharashtra. Call Line: 1800-220-233, 1866-500-3333, 022-67837896, Email: [agenc@futuregenerali.in](mailto:agenc@futuregenerali.in), Website: [www.futuregenerali.in](http://www.futuregenerali.in), IRDA Regd No. 112, CDF - 186601001290019, C1653267



**Bankura****Package: Bulk water supply - Bankura - WBDWSIP/DWW/NCB/BKP/01/2017-18****WC policy**THE NEW INDIA ASSURANCE CO. LTD.  
(Government of India Undertaking)**POLICY SCHEDULE FOR EMPLOYEES COMPENSATION INSURANCE**

<b>Insured's Name</b>	TECHNOFAB ENGINEERING LTD.		
<b>Insured's Details</b>		<b>Issuing Office Details</b>	
<b>Customer ID</b>	PO69011511	<b>Office Code</b>	BO-II (UNDER DO-IV), SECTOR 22 -B (350102)
<b>Address</b>	G-15,S.SARAN, BIDHANNAGAR, DURGAPUR P.O.BARDHAMAN, WEST BENGAL, BIDHANNAGAR BDN, WEST BENGAL, 713212	<b>Address</b>	SCO 1070-1071, SECTOR 22-B, CHANDIGARH, 160022
<b>Phone No</b>	1146710009	<b>Phone No</b>	2790863
<b>E-mail/Fax</b>	Raman@hmdastur.com, /	<b>E-mail/Fax</b>	nia.350102@newindia.co.in /
<b>PAN No</b>	AAACT3829R	<b>S.Tax Regn. No</b>	AAACN4163CST178
<b>GSTIN/UID</b>	19AAACT3829R1ZM / NA	<b>GSTIN</b>	04AAACN4163C1ZZ
		<b>SAC</b>	897138 (Other non-life insurance services excl RI)

<b>Policy Details</b>			
<b>Policy Number</b>	35010236190100000003	<b>Business Source Code</b>	
<b>Period of Insurance</b>	From: 30/04/2019 02:36:18 PM To: 29/04/2020 11:59:59 PM	<b>Dev.Off level/Broker/Corp. Agent</b>	K.M. DASTUR REINSURANCE BROKERS PVT. LTD. - (DM2615660), BO-350102 (SIC0145990)
<b>Date of Proposal</b>	30-Apr-19	<b>Agent/Bancassurance</b>	
<b>Prev. Policy no.</b>		<b>Phone No</b>	2324592, /022/22833655, / NA
<b>Client Type</b>	Non-Corporate	<b>E-mail/Fax</b>	ronak.gadria@kmdastur.com, / / /

<b>Premium(₹)</b>	<b>GST(₹)</b>	<b>Total (₹)</b>	<b>Total (₹ in words)</b>	<b>Receipt No. &amp; Date</b>
72730	13091	85821	RUPEES EIGHTY-FIVE THOUSAND EIGHT HUNDRED TWENTY-ONE ONLY	3501028119000000059 9 - 30/04/19

**Details of Employees with monthly wages upto ₹ 8000:**

Categories	Sub Categories	No of Employee	Cash Total Wages
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**Details of Employees with monthly wages above ₹ 8000:**

Categories	Sub Categories	No of Employee	Cash Total Wages
Builders All employees engaged in shop or yard or in construction/ demolition of buildings and other civil construction like dams, bridges etc. incl. excavation	SKILLED	4	534720
Builders All employees engaged in shop or yard or in construction/ demolition of buildings and other civil construction like dams, bridges etc. incl. excavation	SEMI SKILLED	6	729072
Builders All employees engaged in shop or yard or in construction/ demolition of buildings and other civil construction like dams, bridges etc. incl. excavation	UNSKILLED	40	4418400
Trade Description	Particular of Works	Location Details	Included All Sub-Contractors
WATER WORKS, 4 SKILLED, 6 SEMISKILLED & 40 UNSKILLED.	DESIGN, CONSTRUCTION AND OPERATION-MAINTENANCE OF RAW WATER INTAKE WELL, WATER TREATMENT PLANT, RESERVOIR, TRANSMISSION MAIN FOR INDUPUR AND TALDANGRA BLOCK IN BANKURA.	BANKURA WEST BENGAL	Yes

**Contractor/Sub-Contractor Details:**

Serial No	Name of Contractor	Description	Category	No. of Workers			Amount Wages
				Skilled	Unskilled	Others	

Signature of  
Authorized  
Official  
Digitally signed  
by Surendra  
Kumar  
Date: 2019.04.30  
15:51:13

Policy No. : 35010236190100000003 Document generated by 16923 at 30/04/2019 15:51:13 Hours.

Regd. &amp; Head Office: New India Assurance Bldg., 87 M.G. Road, Fort, Mumbai - 400 001. TOLL FREE No. 1 800 209 1415.

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



**Extensions under the Policy Cover**

Name of the Extension	Sub Limit of the Extension	Deductibles of the Extension
Medical Extension	₹100000	NA
Special Conditions	INCLUDING SUB CONTRACTOR PRINCIPAL-PUBLIC HEALTH ENGINEERING DEPARTMENT(PHED)GOVT. OF WEST BENGAL.	
	NA	

Special Exclusions	NA
Special Excess/Deductible	NA

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

Clauses	Description
Conditions	Due observance and fulfilment of terms, conditions and endorsements of policy
Conditions	The Company may cancel Policy by sending seven days notice by registered letter
Conditions	Name of every employee with amount of wages, earnings shall be properly recorded
Conditions	No payment shall be made by or on behalf of Insured without consent of Company
Conditions	Remedy available to the insured if the company disclaims liability
Conditions	The insured shall take reasonable precaution to prevent accidents and diseases
Conditions	Notice or communication under this policy shall delivered in writing to Company
Conditions	The Policy and the Schedule shall be read together as one contract
Conditions	liability being otherwise admitted
Conditions	In the event claim, Insured shall give notice to Company with full particulars
Exclusions	Any accident, loss or legal liability arising from nuclear weapons material
Exclusions	Death, injury caused directly or indirectly by ionising radiation or contamination by radioactivity
Exclusions	Any legal liability of whatsoever nature
Exclusions	Any sum which the insured would have been entitled to recover from any party but for an agreement between insured and such party
Exclusions	Liability of the insured which arises by virtue of an agreement
Exclusions	Any employee who is not a workman within the meaning of the Law(s)
Exclusions	Insureds liability to employees of their contractors
Exclusions	Any injury or disease directly attributable to war or war-like situations
Exclusions	Damage to any property or any Consequential losses

**Premium and GST Details:**

	Rate of Tax	Amount in INR
Premium		₹ 72730.00
SGST	0	0
CGST	0	0
IGST	18	13091

In witness whereof the undersigned being duly authorised by the Insurers and on behalf of the Insurers has (have) hereunder set his (their) hand(s) on this 30th day of April, 2019.

For and on behalf of

The New India Assurance Company Limited

Date of Issue: 30/04/2019	
	Duly Constituted Attorney(s)

Stamp Duty under the Policy is ₹1

Mudrank \_\_\_\_\_ Dt. \_\_\_\_\_ consolidated Stamp Fees Paid by Pay Order Number \_\_\_\_\_ vide receipt  
number \_\_\_\_\_ dt. \_\_\_\_\_

**Package: Pumping Station, ground storage reservoirs, overhead reservoirs, water distribution network at Indpur WBDWSIP/DWW/NCB/ BK/02A/2018-19**

**WC Policy:**

**Group Insurance Policy of Company**



**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that we have issued Group Personal Accident Policy to M/S. Larsen & Toubro Limited for the year valid from 31/03/2019 to 30/03/2020.

This policy covers all workmen of Larsen & Toubro Limited and their Subsidiary & Associate companies, Factories, Consortiums, SPVs, JVs, L&T Marine Infrastructure Developer Projects Ltd., L&T Hydrocarbon Engineering Ltd., L&T IDPL Ltd etc. located anywhere in the world including India.

This policy is under preparation and shall be released as soon as the policy is ready.



**ICICI Lombard General Insurance Company Limited**

IRDA Reg. No. 115

CIN: U67200MH2000PLC129408

Mailing Address:

Registered Office:

Toll free No. : 1800 2666

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

ICICI Lombard House, 414, Veer Savarkar Marg,  
Near Siddhi Vinayak Temple, Prabhadevi,  
Mumbai - 400 025.

Alternate No.: +919223622666 (chargeable)

Email: customersupport@icicilombard.com

Website: www.icicilombard.com



PACKAGE - OLA

**ICICI Lombard**  
— GENERAL INSURANCE —

Certificate No: 695                      Date: 02-Dec-2019

To whomsoever it may concern

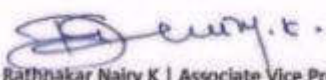
This is to certify that we have issued Group Personal Accident Policy No. 4005/102843874/04/000 to M/S. Larsen & Toubro Limited valid for the period 31-03-2019 to 30-03-2020.

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

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

LE190278 - Design and Construction of Intermediate Pumping Station, Ground Storage Reservoirs, Overhead Reservoirs, Water Distribution Network and Metering Works in Indpur Block including Secondary Transmission Mains to Indpur and Taldangra Blocks

For ICICI Lombard General Insurance Co Ltd

  
Rathnakar Nairy K | Associate Vice President – Specialized Industries

**ICICI Lombard General Insurance Company Limited**      AA

<b>Mailing Address:</b>	<b>Registered Office:</b>	<b>Toll free No. :</b> 1800 2666
401 & 402, 4th Floor, Interpace 11, New Linking Road, Malad (West), Mumbai - 400 094.	ICICI Lombard House, 414, Veer Savarkar Marg, Near Siddhi Vinayak Temple, Prabhadevi, Mumbai - 400 025.	<b>Alternate No :</b> 0 92236 22886 (chargeable)
		<b>Email :</b> customersupport@icicilombard.com
		<b>Website :</b> www.icicilombard.com

## All Risk Policy



Date: 13-08-2019

Customer ID : 101770109  
Customer Name : LARSEN AND TOUBRO LIMITED  
Address : 11<sup>th</sup>, tower-II, Godrej Water Side Building Salt Lake city, North 24 Paraganas,  
West Bengal, 700091

Dear Sir,

### Subject: Interim Held Cover Letter

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

Line of Business	Engineering
Type of Policy	Erection All Risk Policy
Insured	<b>Principal</b> Public Health Engineering Directorate, Project Management Unit, West Bengal Drinking Water Sector Improvement Project, Utility Building, 1st Floor, (Premises No-09/1-0024) AA-1A, (Tank No.3), New Town Kolkata -700156
	<b>Contractor</b> M/s Larsen & Toubro Limited, 11th, Tower –II, Godrej Water Side Building, Salt Lake City, North 24 Paraganas, West Bengal-700091
Perils Covered	As per quote submitted
Sum Insured / Limit of liability	EAR Section 1 : INR 221,99,00,000 EAR Section 2 (Third Party Liability) : INR 25,00,00,000
Period of Insurance	From 12-Aug-2019 00:00 Hrs To Midnight of 26-May-2022 + 12 Extended Maintenance Period as per Proposal form
Project Period	From 27-May-2019 00:00 Hrs To Midnight of 26-May-2022
Deductible/ Retention	As per quote submitted
Exclusions	As per quote submitted
Premium Payable(Including Taxes)	EAR Total Premium : INR 31,43,378
	EAR 1 <sup>st</sup> Instalment Premium : INR 6,54,871

### Additional terms:-

Job No : LE190278

**Description:** Design and Construction of Intermediate Pumping Station, Ground Storage Reservoirs, overhead reservoirs, water distribution network and metering works in Indupur block including secondary transmission mains to Indupur and Taldangra block



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

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

Thanking You,

For BAJAJ Allianz General Insurance Company Limited





**Package: Pumping Station, Secondary transmission mains, overhead reservoirs including water distribution network in Taldangra (WBDWSIP/DWW/NCB/BK/02B/2018-19)**

**WC Policy: Group Insurance Policy**

PACKAGE - 02B

**ICICI Lombard**  
— GENERAL INSURANCE —

Certificate No: 697                      Date: 02-Dec-2019

To whomsoever it may concern

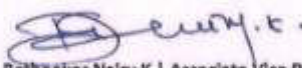
This is to certify that we have issued Group Personal Accident Policy No. 4005/102843874/04/000 to M/S. Larsen & Toubro Limited valid for the period 31-03-2019 to 30-03-2020.

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

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

LE190280 - Design and Construction of Intermediate Pumping Station, Secondary Transmission Mains, Overhead Reservoirs including Water Distribution Network and Metering Works in Taldangra Block.

For ICICI Lombard General Insurance Co Ltd

  
Rathnakar Nair K | Associate Vice President – Specialized Industries

**ICICI Lombard General Insurance Company Limited**      AA

<b>Mailing Address:</b>	<b>Registered Office:</b>	<b>Toll free No. :</b> 1800 2986
401 & 402, 4th Floor, Interface 11, New Linking Road, Malad (West), Mumbai - 400 064.	ICICI Lombard House, #14, Veer Savarkar Marg, Near Siddhi Vinayak Temple, Prabhadevi, Mumbai - 400 025.	<b>Alternate No.:</b> 0 82236 22666 (chargeable)
		<b>Email :</b> customersupport@icicilombard.com
		<b>Website :</b> www.icicilombard.com

## All Risk Policy



Date: 13-08-2019

Customer ID : 101770109

Customer Name : LARSEN AND TOUBRO LIMITED

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

Dear Sir,

**Subject: Interim Held Cover Letter**

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

Line of Business	Engineering
Type of Policy	Erection All Risk Policy
Insured	<b>Principal</b> Public Health Engineering Directorate, Project Management Unit, West Bengal Drinking Water Sector Improvement Project, Utility Building, 1st Floor, (Premises No-09/1-0024) AA-1A, (Tank No.3), New Town Kolkata - 700156
	<b>Contractor</b> M/s Larsen & Toubro Limited, 11th, Tower –II, Godrej Water Side Building, Salt Lake City, North 24 Paraganas, West Bengal- 700091
Perils Covered	As per quote submitted
Sum Insured / Limit of liability	EAR Section I : INR 196,43,00,000 EAR Section 2 (Third Party Liability) : INR 20,00,00,000
Period of Insurance	From 12-Aug-2019 00:00 Hrs To Midnight of 26-May-2022 + 12 Extended Maintenance Period as per Proposal form
Project Period	From 27-May-2019 00:00 Hrs To Midnight of 26-May-2022
Deductible/ Retention	As per quote submitted
Exclusions	As per quote submitted
Premium Payable[Including Taxes]	EAR Total Premium : INR 27,81,449
	EAR 1 <sup>st</sup> Instalment Premium : INR 5,79,469

**Additional terms:-**

**Job No :** LE190280

**Description:** Design and Construction of Intermediate Pumping Station, Secondary transmission mains, overhead reservoirs including water distribution network and metering works in Taldangra block.



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

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

Thanking You,

For Bajaj Allianz General Insurance Company Limited






**Package: Raw Water Intake Well, Water Treatment Plant, Raw and Clear Water Transmission Main for Mejhia and Gangajalghati Block (WBDWSIP/DWW/NCB/BK/03/2018-19)**

**WC Policy: Group Insurance Policy**

PACKAGE - 03

  
— GENERAL INSURANCE —

Certificate No: 694 Date: 02-Dec-2019

To whomsoever it may concern

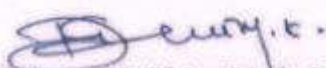
This is to certify that we have issued Group Personal Accident Policy No. 4005/102843874/04/000 to M/S. Larsen & Toubro Limited valid for the period 31-03-2019 to 30-03-2020.

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

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

LE190276 - Design, Construction & Operation -Maintenance of Raw Water Intake Well, Water Treatment Plant, Raw & Clear Water Transmission Main for Mejhia and Gangajalghati Blocks in Bankura.

For ICICI Lombard General Insurance Co Ltd

  
Rathnakar Nair K | Associate Vice President – Specialized Industries

**ICICI Lombard General Insurance Company Limited** AA

<b>Mailing Address:</b>	<b>Registered Office:</b>	<b>Toll free No. :</b> 1800 2566
401 & 402, 4th Floor, Interface 11, New Linking Road, Malad (West), Mumbai - 400 064.	ICICI Lombard House, 414, Veer Savarkar Marg, Near Siddhi Vinayak Temple, Prabhadevi, Mumbai - 400 025.	<b>Alternate No. :</b> 0 92236 22666 (chargeable)
		<b>Email :</b> customersupport@icicilombard.com
		<b>Website :</b> www.icicilombard.com

## All Risk Policy



Date: 13-08-2019

Customer ID : 101770109  
Customer Name : LARSEN AND TOUBRO LIMITED  
Address : 11<sup>th</sup>, tower-II, Godrej Water Side Building Salt Lake city, North 24 Paraganas,  
West Bengal, 700091

Dear Sir,

**Subject: Interim Held Cover Letter**

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

Line of Business	Engineering
Type of Policy	Erection All Risk Policy
Insured	<b>Principal</b> Public Health Engineering Directorate, Project Management Unit, West Bengal Drinking Water Sector Improvement Project, Utility Building, 1st Floor, (Premises No-09/1-0024) AA-1A, (Tank No.3), New Town Kolkata -700156
	<b>Contractor</b> M/s Larsen & Toubro Limited, 11th, Tower –II, Godrej Water Side Building, Salt Lake City, North 24 Paraganas, West Bengal-700091
Perils Covered	As per quote submitted
Sum Insured / Limit of liability	EAR Section 1 : INR 187,38,00,000 EAR Section 2 (Third Party Liability) : INR 200,000,000
Period of Insurance	From 12-Aug-2019 00:00 Hrs To Midnight of 26-May-2022 + 12 Extended Maintenance Period as per Proposal form
Project Period	From 27-May-2019 00:00 Hrs To Midnight of 26-May-2022
Deductible/ Retention	As per quote submitted
Exclusions	As per quote submitted
Premium Payable(Including Taxes)	EAR Total Premium : INR 26,53,301
	EAR 1 <sup>st</sup> Instalment Premium : INR 5,52,771

**Additional terms:-**

**Job No :** LE190276  
**Description:** Design , Construction and Operation – Maintenance of Raw Water Intake well , Water treatment Plant, Raw and Clear Water Transmission Main for Mejia and Gangajalghati blocks in Bankura.



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

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

Thanking You,


For Bajaj Allianz General Insurance Company Limited





**Package: Overhead Reservoir including Water Supply Distribution Network in Mejhia and Gangajalghati Block (WBDWSIP/DWW/NCB/BK/04/2018-19)**  
**WC Policy: Group Insurance Policy**

PACKAGE-04

  
— GENERAL INSURANCE —

Certificate No: 696                      Date: 02-Dec-2019

To whomsoever it may concern

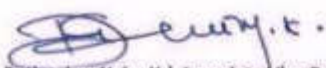
This is to certify that we have issued Group Personal Accident Policy No. 4005/102843874/04/000 to M/S. Larsen & Toubro Limited valid for the period 31-03-2019 to 30-03-2020.

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

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

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

For ICICI Lombard General Insurance Co Ltd

  
Rathnakar Nair K | Associate Vice President – Specialized Industries

**ICICI Lombard General Insurance Company Limited**      AA

<b>Mailing Address:</b> 401 & 402, 4th Floor, Interpace 11, New Linking Road, Malad (West), Mumbai - 400 054.	<b>Registered Office:</b> ICICI Lombard House, 614, Veer Savarkar Marg, Near Sudhi Vinayak Temple, Prabhadevi, Mumbai - 400 025.	<b>Toll free No. :</b> 1800 2666 <b>Alternate No.:</b> 0 92736 22666 (chargeable) <b>Email :</b> customersupport@icicilombard.com <b>Website :</b> www.icicilombard.com
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## All Risk Policy



Date: 13-08-2019

Customer ID : 101770109  
Customer Name : LARSEN AND TOUBRO LIMITED  
Address : 11<sup>th</sup>, tower-II, Godrej Water Side Building Salt Lake city, North 24 Paraganas,  
West Bengal ,700091

Dear Sir,

Subject: Interim Held Cover Letter

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

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

Additional terms:-

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



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

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

Thanking You,

For Bajaj Allianz General Insurance Company Limited





APPENDIX 5: NOC RECEIVED AND APPLICATION TREE FELLING NOC

North 24 pgs – Tree felling NOC at OHSR - Haroa (Package N 24 pgs/ 02A)

*Give WFS*  
*TL/DSIS*  
*Requested to take further action in this regard*  
*12/06/19*  
*Executive Engineer, North 24 Pgs, W/S Division-II, P.H.E. Dte. Utility Building, Tank No.3, 2nd Floor, Block – A1, AA-1A, New Town, Kol-156.*

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.

Encl: As stated above.

*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 Pradhan, Gopalpur – I Gram Panchayat, 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.

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

*DTL / AD / Swarnabha*  
*For n.a. please*  
*12/06*  
*12/06*

*MEMO NO. 566 / N-24 PGSD-II dt 12-06-19*  
*18.5.2019*  
*ON 04.06.19*

INWARD NO. 976  
RECEIVED  
Date 12/06/19

**Bankura**

**Application of Tree felling (WTP – package Bk/ 03)**

Inspection  
date - 16/10/19

## Application for Felling Trees & Transit Pass in Non Forest Areas - by Developer

Form I (B)  
Application for Felling of Trees in Non Forest Areas / Certificate of Clearance in respect of a Developer  
[See rule 4 (a) (2) and 7 (2)]

Welcome! Gautam Roy

Back (home.php)

### NEW APPLICATION

☐ District:

Select District **BANKURA**

Block:

**GANAJAL GHAT**

Concerned DFO :

\_\_\_\_\_

Name of the Person / Agency / Department

☐ **PUBLIC HEALTH ENGINEERING DEPARTMENT**

Aadhar Card No./ Company Registration No.(Optional):

\_\_\_\_\_

Nature of proposed development work :

nature of proposed development work **CONSTRUCTION OF WATER TREATMENT PLANT FOR DRINKING WATER SUPPLY**

Full Postal Address:

Postal Address **RADHAMADHAPUR, BASUDEBPUR, GANAJALGHATI**

PIN - **\_\_\_\_\_**

Land Details:

a) Block / Panchayat / Municipality / Corporation

**BARSAI GRAM PANCHAYAT, G. GHATI, BANKURA**

Home / Menu / About

Application Fees: Rs.1000/-(Rupees One Thousand Only)

Save & Pay Fee to GRIPS

Upload Receipt offline\*

Exit (home.php)

ANNEXURE - 11

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## APPENDIX 6 : NOC FROM SUNDARBAN BIOSPHERE RESERVE

DIRECTORATE OF FORESTS  
OFFICE OF THE ADDL. PRINCIPAL CHIEF CONSERVATOR OF FORESTS & DIRECTOR  
SUNDARBAN BIOSPHERE RESERVE, WEST BENGAL  
BIKASH BHAWAN, 3RD FLOOR, NORTH BLOCK  
SALT LAKE CITY, KOLKATA – 700 091  
TELEFAX 2321-1750/1529, E-MAIL :sbrdir@gmail.com

\*\*\*\*\*

No. 1095 /SBR/C-21/17 Dated : 05.03.2019

From : The APCCF & Director, Sundarban Biosphere Reserve  
West Bengal.

✓ To : The Project Director, PMU  
West Bengal Drinking Water Sector Improvement Project  
PHE Dte., Govt. of West Bengal

Sub : Construction of ground level storage reservoir and small pipelines in  
Haroa and Bhangar –II blocks of North and South 24 Parganas requirement of  
regulatory permission, if any.

Ref : Your Memo No. PMU/WBDWSIP/PHED/06/79 dt. 25.01.2019

\*\*\*\*\*

With reference to the above noted communication this is to inform you that Haroa and  
Bhangar –II blocks of North and South 24 Parganas does not have Forest land & does not  
required any permission from this end.

APCCF & Director  
Sundarban Biosphere Reserve  
West Bengal  
*5/3/19*

*RECEIVED*  
*05/03/19*




Murmu/HC/SBR/05.03.19

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 Revision No. 00 Revision Date : 00 Page 1 of 8 Effective Date :
	Site Specific Environmental Management Plan	

## SITE SPECIFIC ENVIRONMENTAL MANAGEMENT PLAN


WBDWSIP BHANGAR-II BLOCK


LOCATION – ZONE- 4,OHR (Swastyan Gachhi)

0	07.05.2019				
REV	DATE	PREPARED BY	CHECKED BY	APPROVED BY DSISC	APPROVED BY PIU

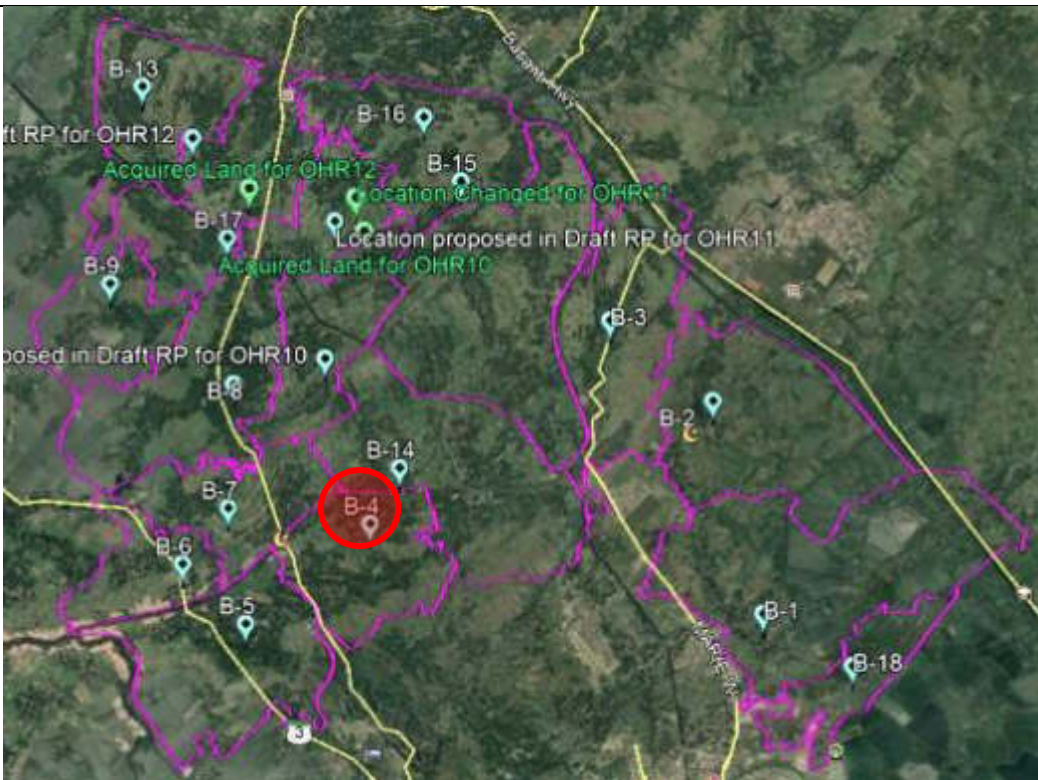
Environmental Specialist, DSISC  
North 24 Parganas  
WBDWSI Project

may be approved  
Junior Engineer  
PIU, N-24Pgs., WBDWSIP, PHE  
Govt. Of West Bengal

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

  
Assistant Engineer-II (Civil)  
PIU, N-24 Pgs., WBDWSIP, PHE Div.  
Govt. of West Bengal

1

<b>Package Area</b>	<b>Zone – 4 in N24P/02B, OHR (Swastyangachhi) PIU-N24P</b>
Package title	Design and Construction of Overhead Reservoir Including Water Supply Distribution Network and Metering Work in Bhangar-II Block
	SEMP is as per requirement of the Draft IEE covering package no. N24P/02B
Contractor	<b>NCC Pvt. Ltd.</b>
Date of Contract Award	19/09/2018
Date of works commencement for particular site	14/05/2019
<b>Contract period</b>	Construction: 3 Years ; O&M: 2 Years
<b>SEMP Component</b>	Construction of Overhead Reservoir – 450 KL
	No demolition activity involved
Gram Panchayets	Polerhat-I
Project Description	Individual household water supply schemes for the project Gram Panchayets
Indicative Budget for EMP Implementation for the entire package	INR 21,42,500/-
<b>Project Components</b>	As per project detailed design
<b>Gram Panchayet: Polerhat-I</b>	
<b>Land Status</b>	Private and Transferred
<b>OHR Capacity</b>	450 KL
<b>Location</b>	
	



<b>Details of contractors on-site-personnel and workers</b>	Polerhat-I
Project Manager	Mr. Goutam Paul; 9733333053
Site Engineer	Mr. Sandeep; 8886748948
Site Supervisor	Mr. Sandeep; 8886748948
EHS Supervisor	Mr. Nitin Kumar; Mob: 8971107720
Archeological supervisor	NA
Skilled / semi-skilled workers	5 skilled and 4 semi-skilled
Unskilled workers	5
Women workers	Nil
Workers – local / migrant	Local-14 / Migrant-15
<b>Details of facilities</b>	
Construction camps, (no's and locations)	One labor accommodation Rented Apartment at Swastyangachi Village

**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"> <li>Locations and operators of these utilities to be identified as per detailed design documents to prevent unnecessary disruption of services during construction phase.</li> <li>Prepare spoils(Waste) management plan.</li> </ul>	<ul style="list-style-type: none"> <li>Contingency Plan has been developed by informing to emergency services like WBSEDCL, Telecommunication, local administration and police etc.</li> <li>First we are digging the trial pit manually, if any obstruction arise the same is removed as per direction of end user</li> <li>The construction work to continue without disturbing the existing pipeline and electric poles.</li> <li>Spoil Management Plan is included in <b>Attachment O7</b> included with this SEMP</li> </ul>	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"> <li>Seasonal climatic variations should be taken into account during scheduling of construction in the area.</li> </ul>	<ul style="list-style-type: none"> <li>Excavation works schedule during dry season have been approved by PMU.</li> <li>If excavation work is to be conducted during rainy season then preventive measures will be taken as per PMU approved method.</li> </ul>	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 natural drainage patterns, ponding and water logging,	<ul style="list-style-type: none"> <li>Obtain construction materials only from government approved quarries with prior approval of PIU.</li> <li>On a monthly basis documentation on material obtained from each source (quarry/borrow pit) should be submitted.</li> </ul>	<ul style="list-style-type: none"> <li>No involvement of any new borrow area or quarry is anticipated.</li> </ul>	Contractor, PIU	DSISC observation at site and document checking	Project cost

Field/Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
	and water pollution.	<ul style="list-style-type: none"> <li>In case of involvement of new quarries/ borrow areas, prior steps will follow for all clearances and permissions as required under law.</li> </ul>				
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"> <li>All necessary consents, permits, clearance, NOCs, etc prior to award of civil works should be obtained.</li> <li>All necessary approvals for construction to be obtained before start of construction.</li> <li>Acknowledge in writing and report on compliance consents, permits, clearance, NOCs etc. obtained.</li> </ul>	<ul style="list-style-type: none"> <li>Already done land requisition, electric connection, water source etc.</li> <li>Tree felling requirement for this site is not anticipated.</li> <li>Made provision for detailed design drawing and documented all conditions</li> <li>Please refer <b>Attachment O3</b> for list of relevant permits and clearances.</li> </ul>	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 vehicle-related pollutants such as carbon monoxide, sulphur dioxides,	<ul style="list-style-type: none"> <li>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"> <li>Only vehicles having valid Pollution Under Control Certificates should be engaged in the project.</li> <li>Vehicles transporting (cement, sands etc) should be covered and cleaned prior to release at site, sprinkling of</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Only vehicles having valid PUC certificate have been engaged in the project.</li> <li>Mixer machine, winch machine and DG set used for concreting and pilling are not left for idling, after completion of work.</li> <li>Sprinkling and dust screen arrangement have been made, and will be used when required.</li> <li>Site has been access controlled to prevent trespassing.</li> </ul>	Contractor	PIU through DSISC observation at site and document checking	Project cost



Field/Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
	particulate matter, nitrogen oxides, and hydrocarbons	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).	• Stock piles will be maintained in such a way to minimise dust rising. • Air quality Monitoring has been conducted at following five places <b>(Near School Swastayangachhi. Zone-04, Near Paschim Majarhat primary school Shanpukuria. Zone-10, Dharmatala Pachuria Zone:-01 Nangla Palpur Zone:-09)</b> in the Bhangar II 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	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.	• 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	• 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	Contractor	PIU through DSISC observation at site and document checking	Project cost

Field/Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
		<p>away from drainage and spillage protection should be provided</p> <ul style="list-style-type: none"> <li>• Provision for temporary silt traps or sedimentation basins along the drainage leading to the water bodies should be provided, according to situation.</li> <li>• Temporary drainage channel around the work area should be made to accumulate the entry of runoff from upper areas into the work area.</li> <li>• 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.</li> </ul>	<p>expected to be utilized on-site only. No excess spoil anticipated.</p> <ul style="list-style-type: none"> <li>• Surface water monitoring has been conducted already following two places (<b>Koach Purur Zone-15, and (Majer hat) Zone-10, Shanpukuria</b>) in the Bhangar II project as per Environmental Monitoring Plan recommended in the IEE.</li> </ul>			
Biodiversity and 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"> <li>• For flora protection, tree cutting is strictly prohibited; if necessary then obtain permission through proper channel.</li> <li>• 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.</li> </ul>	<ul style="list-style-type: none"> <li>• So far no faunal movement has been observed in this site.</li> <li>• Some trees are present along the existing boundary wall of the site however felling of tree is not envisaged at this site.</li> </ul>	Contractor	PIU through DSISC observation at site and document checking	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"> <li>• Minimize noise from construction equipment by using vehicle silencers, fitting jackhammers with noise-reducing mufflers minimising the sound impact to surrounding sensitive receptor;</li> <li>• Horns not to be used unless it is necessary to warn other road users;</li> <li>• Ensure maximum work place noise</li> </ul>	<ul style="list-style-type: none"> <li>• Consultation made with local communities in advance of the work to identify and avoid working at sensitive times, such as religious and cultural festivals.</li> <li>• Planned activities in consultation with DSISC so that activities with the greatest potential to generate noise are</li> </ul>	Contractor	PIU through DSISC observation at site and document checking	Project cost

Field/Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
		<p>level exposure not exceeding 85 decibels (dbA);</p> <ul style="list-style-type: none"> <li>• Ensure noise level at site boundary comply with standard prescribed for local landuse; and</li> <li>• Baseline and construction phase Noise Monitoring (Day &amp; Night time) should be conducted.</li> </ul>	<p>conducted during periods of the day which will result in least disturbance.</p> <ul style="list-style-type: none"> <li>• Mixer machine, winch machine and DG sets used for concreting and pilling are properly maintained and stopped immediately after completion of work.</li> <li>• Baseline monitoring has been conducted.</li> <li>• Noise quality Monitoring has been conducted at following five places <b>(Majerhat Sanpukuria Zone:-10, Near Swastayan Gachhi School Zone :-04, Dharmatala Pachuria School Zone:-01, Nangla Palpur Zone:-09, Near Coch Pukur Primary School Zone:-15)</b> in the Bhangar II Block as per requirements prescribed in IEE.</li> </ul>			
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"> <li>• Prepare a construction waste management plan for site.</li> <li>• 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.</li> <li>• As far as possible utilize the debris and excess soil in construction purpose such as for site filling and labelling purpose.</li> </ul>	<ul style="list-style-type: none"> <li>• Spoil management plan has been developed</li> <li>• Waste/construction waste is being managed according to the following preferential hierarchy: reuse and dispose.</li> <li>• 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,</li> </ul>	Contractor	PIU through DSISC observation at site and document checking	Project cost

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"> <li>• Avoid stockpiling any excess spoils 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.</li> </ul>	from where these are disposed as per law.			
Occupational Health and Safety	Occupational hazards which can arise during work	<p>Develop and implement a site-specific occupational health and safety (OHS) plan which will include measures such as:</p> <ul style="list-style-type: none"> <li>(a) excluding public from the site;</li> <li>(b) ensuring all workers are provided with and use personal protective equipment like Helmet, Gumboot, Safety Belt, Gloves, Nose mask etc.</li> <li>(c) documentation of work related accidents.</li> <li>(d) Providing qualified first aider at all times.</li> <li>(e) Providing to all workers reflective jacket,</li> <li>(f) Marking and providing sign boards for most of hazardous areas such as high voltage equipment,</li> <li>(g) Workers allowed exposure to noise level up to 85 dB (A) only.</li> </ul>	<ul style="list-style-type: none"> <li>• Based on NCC's OHS Plan, a site specific OHS plan has been developed.</li> <li>• Site OHS plan is attached at <b>Attachment - O4</b>.</li> <li>• All workers have been provided with and made to use Personal Protective Equipment like helmet, gumboot, safety belt, gloves, nose mask and ear plugs;</li> <li>• H&amp;S Training for all site personnel has been arranged and it will be continued;</li> <li>• H&amp;S orientation training provided to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuries to fellow workers;</li> <li>• Documented procedures are followed for all site activities;</li> <li>• Work-related accidents will be recorded;</li> <li>• Drinking water provided after proper testing.</li> </ul>	Contractor	PIU through DSISC observation at site and document checking	Project cost



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"> <li>• First Aid box provided at working sites;</li> <li>• Clean eating areas provided to workers;</li> <li>• Moving equipment maintained with audible back-up alarms</li> </ul>			
Socio Economic Employment	Generation of temporary employment and increase in local revenue	<ul style="list-style-type: none"> <li>• Employ local labour force as far as possible</li> <li>• Comply with labour laws</li> </ul>	<ul style="list-style-type: none"> <li>• Local labours are employed, on priority, whenever available.</li> <li>• Refer Attachment O3 for documents relating to statutory compliances</li> </ul>	Contractor, PIU	DSISC observation at site and document checking	Project cost
Environmental Management Plan (EMP) Implementation Training	Irreversible impact to the environment, workers, and community	1. 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 establishment of habitation	<ul style="list-style-type: none"> <li>• 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)</li> <li>• Use unused, vacant lands; no trees shall be cut</li> <li>• Provide a proper fencing/compound wall</li> <li>• Prepare a site layout plan &amp; display at the site; uniformly label (name boards) all the places in the facility</li> <li>• Entire site/facility area shall be</li> </ul>	<ul style="list-style-type: none"> <li>• Before locating project offices, sheds, and construction plants we discussed with DSISC and within or nearest place has been selected,</li> <li>• Till date no trees have been cut and no any destruction of property, irrigation and drinking water supply systems observed,</li> <li>• Employees are trained for storage and handling of materials which can potentially cause soil contamination and water</li> </ul>	Contractor	PIU through DSISC observation at site and document checking	Project cost

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



**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)	PM <sub>10</sub> , PM <sub>2.5</sub> , NO <sub>2</sub> , SO <sub>2</sub> , CO	Once before start of construction Quarterly (yearly 4- times) during construction (2-year period considered)	Near School Swastayangachhi. Zone-04, Near Paschim Majarhat primary school Shanpukuria. Zone-10, Dharmatala Pachuria Zone:-01 Nangla Palpur Zone:-09	225,000
Ambient noise	5 locations (same as air quality monitoring)	Day time and night time noise levels (24 hours)	Once before start of construction Quarterly (yearly 4- times) during construction (2-year period considered)	(Majerhat Sanpukuria Zone:-10, Near Swastayan Gachhi School Zone :-04, Dharmatala Pachuria School Zone:-01, Nangla Palpur Zone:-09, Near Coch Pukur Primary School Zone:-15	67,500
Surface water quality	2 locations (to be selected during implementation)	pH, Oil and grease, Cl, F, NO <sub>3</sub> , TC, FC, Hardness, Turbidity BOD, COD, DO, Total Alkalinity	Once before start of construction Half yearly during construction (2- year construction period considered)	Koach Purur Zone:-15, and (Majerhat) Zone-10, Shanpukuria	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.







## **Monitoring Locations on Google Earth**



## **List of Attachments**



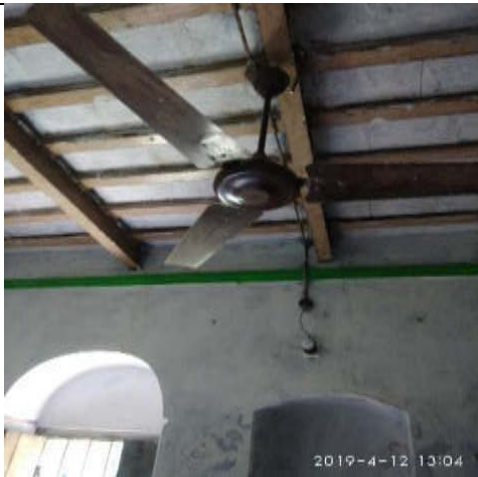
- Attachment O1: Details of construction Work sites
- Attachment O2: Details of construction camp sites
- Attachment O3: List of clearances & statutory requirements
- Attachment O4: Contractor's OHS Policy & Organization
- Attachment O5: Utility shifting/relocation
- Attachment O6: Details of Construction 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

## Attachment O1: Details of construction Work sites

1. Zone 4: OHR construction Site	
Location- Sastyangachhi	
A	<b>Material storage</b> <ul style="list-style-type: none"> <li>• Cement</li> <li>• Steel</li> <li>• Fine Aggregate</li> <li>• Coarse Aggregate</li> <li>• Shuttering Material</li> <li>• Shuttering Oil</li> </ul>
B	<b>Plant &amp; Machinery</b> <ul style="list-style-type: none"> <li>• Concrete Mixer – 1 Nos</li> <li>• Needle Vibrator – 1 Nos</li> <li>• Steel Cutter – 1Nos</li> </ul>
C	<b>Site office – No</b>
D	<b>Laboratory – No</b>
E	<b>Security cabin – No</b>
F	<b>Labor welfare facilities at Site</b> <ul style="list-style-type: none"> <li>• Labor rest area</li> <li>• Toilets</li> <li>• Drinking water</li> <li>• First Aid Box.</li> </ul>
G	<b>Site Layout Plan</b> Refer Appendix O.1
H	<b>Site photographs</b>
Original site photographs	
	OHR before Construction
Project facilities at Site	  

	Project Information Board	Safety signage at site	Toilet on OHR site
			
	PPEs use at site	First Aid Box at site	Labour Rest Area

**Attachment O2: Details of construction camp sites**

<b>1.</b>	<b>Labour accommodation, OHR site – Zone 4: Sastyangachhi</b>	
	<b>Location- Sastyangachhi, Polerhat - I (Latitude: 22°34'16", Longitude: 88°33'21")</b>	
<b>A</b>	Accommodation – For 29 Nos construction workers No women / families in the camp Facilities provided at camp site <ul style="list-style-type: none"> <li>• Type of living accommodation – Rented house</li> <li>• Accommodation provided for 29 workers</li> <li>• Separate cooking area</li> <li>• Cooking gas</li> <li>• Drinking water</li> <li>• Bath rooms</li> <li>• Toilets</li> <li>• Drainage system</li> <li>• First aid box</li> </ul>	
<b>B</b>	<b>Camp photographs</b>	
Original site Photographs	Not applicable as camp is not located on OHR site.	
Photos of camp and facilities provided		
	Rented labour camp at zone 4-OHR	Arrangement of kitchen and packed drinking water
		
	Fan facility at Labour camp	



**Attachment O3: List of clearances & statutory requirements**

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

### Attachment O4: Contractor's OHS Policy & Organization

<b>1</b>	<b>Contractor agency has a OHS policy</b>	<b>Yes/ No</b>
A	If yes, provide policy details 1. Policy statement: 2. EHS organization & responsibilities:	Yes [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- 30No. • Gloves-5no. • Helmet-29no.s • Safety jacket- 31nos. • Goggles- 4 nos.	Yes
D	Preventive Measures	
	• Orientation of all workers on OSH	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
<b>2</b>	<b>Contractor emergency procedure</b>	
A	• In case of accident, first aid treatment to injured labour/person shall be provided. • In case hospitalization is required, concerned site in-charge will immediately take necessary action for hospitalization and he will inform to our Project Manager. • Details of accident shall be reported in accident register and the same shall be informed to client also.	
<b>B</b>	<b>Contact information, staff and responsibilities for emergency situations</b>	
	<b>Designation</b>	<b>Staff name &amp; contact</b>
	Site Engineer	Mr. Md Sukur Ali Mob: 8327043932
	EHS Supervisor	Mr. Nitin Kumar Mob: 8971107720
	Project Manager Representative	Druga Prasad Mob: 9836803672
		<b>Emergency responsibility</b>
		Site Engineer shall be responsible for arranging of first aid treatment and other necessary action required in case of emergency. He will also be responsible for informing to EHS Supervisor.
		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.
<b>C</b>	<b>Reporting procedure in case of work accidents</b> 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
<b>D</b>	<b>Mandatory Reporting to Authorities</b>	Yes
<b>E</b>	<b>Prohibited Acts and Penalties for Violations</b>	Yes

#### 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 (MT) required for project	Source	Indicate if source has all necessary government clearances
1	Steel	49.38	Approved supplier	-
2	Cement	135.75	Approved supplier	-
3	Sand	207.92	From approved quarries at Gopiballavpur/ Bardhaman	Yes
4	Aggregate	400.22	From approved quarries at Nalhati/ Rampurhat	Yes

Attachment O7: Spoil Management Plan

<b>NCC LIMITED</b>	Design and Construction of Reservoir Including Water Supply Distribution Network and Metering Work in Bhangar-II Block		Doc. No. NCC/ SMP /01 Revision No. 00 Revision Date : 00 Effective Date : Page 1 of 5		
	<b>Spoil Management Plan</b>				




  

**SPOIL MANAGEMENT PLAN (SMP)**


**WBDWSIP BHANGAR-II BLOCK**


**LOCATION – ZONE- 4,OHR (Swastyan Gachhi)**


0	13.05.2019				
REV	DATE	PREPARED BY	CHECKED BY	APPROVED BY DSISC	APPROVED BY PIU


  

  
 Junior Engineer  
 PIU-4, N-24Pgs., WBDWSIP, PHE Dte  
 Govt. Of West Bengal

  
 Junior Engineer  
 PIU, N-24Pgs., WBDWSIP, PHE Dte.  
 Govt. Of West Bengal

Environmental Specialist, DSISC  
North 24 Parganas  
WBDWSI Project

*may be approved* 

Counter Sign 

Dte Assistant Engineer-II (Civil)  
PIU, N-24 Pgs., WBDWSIP, PHE Dte.  
Govt. of West Bengal

West Bengal Drinking Water Sector Improvement Project



## 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 OHR site in Zone (04). For the OHR site. We do not anticipate any excess Spoil for disposal as all excavated material will be reuse at site only.

## 3. LEGAL AND OTHER REQUIREMENTS:

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

## 4. ROLES AND RESPONSIBILITY:

### SITE ENGINEER:

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

### SAFETY PERSONNEL:

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

### WORKER:

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

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

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

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

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

**6. SPOIL VOLUMES AND CHARACTERISTICS:**

In this project, approx. Generation of excavated earth will be approx. 181 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 for spoil transport as there is no extra soils for disposal.

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

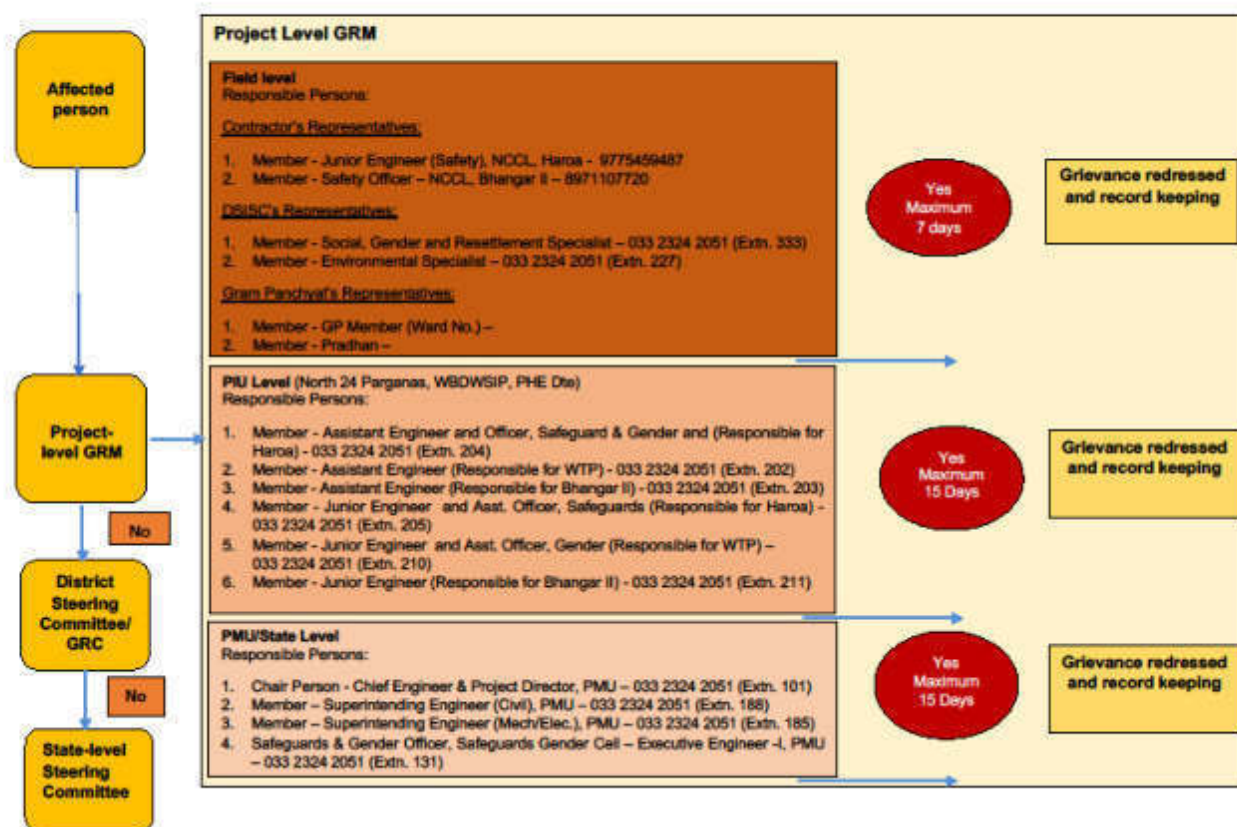
Monitoring, Reporting and all necessary improvements will be done as per requirements.

**SPOIL DETAILS**

Sl. No.	Zone	Name Of Structure	Excavation Total Qty (C.U.M)	Back Filling Total Qty (C.U.M)	Reuse Excess Qty (C.U.M)
1.	04	Boundary wall	180.833	148.541	32.292

**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.

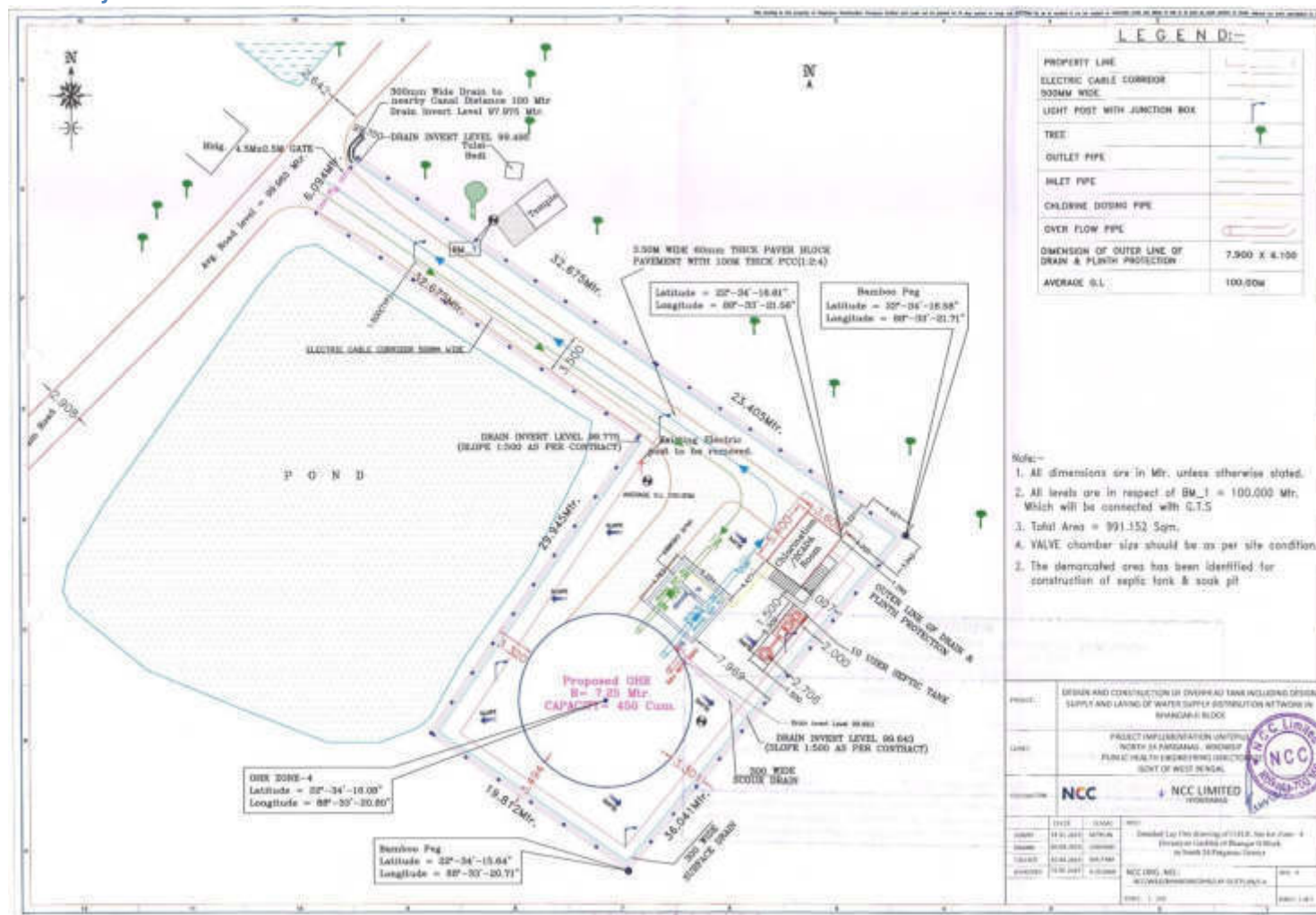
**Grievance Redress Mechanism**

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.



## Appendix O.1: Site Layout Plan





## Appendix O.A: Labour License

*Labour Licence  
DWS Bhangan-II  
Expire on 26/12/19*

**GOVERNMENT OF WEST BENGAL**  
OFFICE OF THE DEPUTY LABOUR COMMISSIONER, BARUIPUR  
South 24 Parganas, Nandarami Complex (1st & 2 nd Floor) (Opp. 218 Bus Stand) Holding No - 474, Kulpi Road,  
Ward No - 5, Shibaniipith, Baruiapur, Kolkata-700144

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

Licence No. : **BRP04/CLL/000191** Date : **27th Dec, 2018**

Lic Fees	1000
S. Deposit	30000

**LICENCE**

Licence is hereby granted to **NCC LIMITED** at **Eco Space Business Park, Block 4A, 5th Floor, Action Area- II, Newtown -700156, Patharghata, Block- Rajarhat , Barasat, PS - New Town, District - North 24 Parganas, Pin Code - 700156** 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: **26th Dec, 2019.**

**Tapas Kumar Sinha Roy**  
Licensing Officer  
Under the Contract Labour(R&A) Act, 1970  
&  
Assistant Labour Commissioner  
Baruiapur, South 24 Parganas  
(BRP04/CLL/000092)

Digitally signed by  
Tapas Kumar Sinha  
Roy  
Date: 2018.12.27  
15:32:23 +05'30'

**Establishment Information:**  
Office of the Executive Engineer North 24 Parganas Water Supply Division II PHE Dca, (BRP04/CLL/000092)  
W.Site - Utility Building, Tank No.-3, 2nd Floor, Action Area-IA, New Town, Kolkata.  
Bhagan-II, Block - Bhangan - II , Baruiapur - 700135, PS - Kashipur, South 24 Parganas

**Work site exact location:**  
VII, Kantalanga, P.O. Shonepur  
Bhagan-II, Block- Bhangan - II , Baruiapur  
PS - Bhangan , District - South 24 Parganas, Pin Code - 700135

1 of 2

## Appendix O.B: Workman Compensation

**FUTURE GENERALI**  
TOTAL INSURANCE SOLUTIONS

**Workmen's Compensation Policy- Policy Schedule**

Policy Serving Office	Off Code-15, Future Generali India Insurance Co Ltd, 1st Floor D.No.7-1-21A, APDL Estate Opp Country Club, Begunpet, Hyderabad, Telangana, Pincode-500016, Tel. No : 940-66038600		
Policy No	2019-LE129169-FWC	Period of Insurance	From 00:00:00/04/2019 To Midnight of 03/02/2020
Insured	NCC Limited	Intermediary Name/Code	INDIA INSURE RISK MANAGEMENT AND INSURANCE BROKING SERVICES/60001531
Address	BHANGAR II BLOCK, South Twenty Four Pergam, West Bengal, 743552	Telephone(Mch,Off,Home)	4621822090/60802590738/4621822090
		Fax No & Email Id	82256791416 / PADMALA.SUREYARAJAN@INDIAINSURE.COM
GETIN Number	16AAACHT335C12M	PGI GETIN Number	36AABCTF019E12A

In consideration of the Policy holder second issue paying to the Future Generali India Insurance Company Limited (herein after called the Insurer) the premium as stated in the Schedule and to release 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, exclusions and warranties hereinafter set forth.

Co-insurance Details		Subtotal Of Premium (₹)	
Insurer	Share (in %)	Gross Premium	134,504.56
FUTURE GENERALI INDIA INSURANCE COMPANY LIMITED	100%	Claims and Service Tax	24,174.78
		Total Premium	158,679.30

**Risk Details**

Notion of Business : Design and Construction of overhead reservoir including water supply distribution and catering works in Bhangaar II Block  
Location : Design and Construction of overhead reservoir including water supply distribution and catering works in Bhangaar II Block  
Contractor/Sub-Contractor Name : NCC LTD

No of Employees	Description of work done by Employees	Declared Wages during the Period of Insurance (₹)
30	Highly Skilled workers	6,647,000.00
30	Skilled workers	6,648,000.00
30	Semi Skilled Workers	5,480,000.00
30	Unskilled Workers	4,585,000.00
Total		23,360,000.00

**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 thereunder	Subject otherwise, to the terms, conditions & scope, Exclusions of the Policy, the extent of liability incurred by the Insurer	Yes
Common Law Fatal Accident		Yes

**Limit(s)**

WC Act 1923 and subsequent amendments to the said Act prior to the date of issue of the policy provided that the insurance quoted hereunder is not extended to include

1. Any interest and/or penalty imposed on the Insured on account of his/her failure to comply with the requirements laid down under WC Act 1923

2. Occupational diseases of any kind.

**Additional Clauses, Conditions, Warranties & Exclusions**

Demerits 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, Trenching and Handling of Explosives

Excluding loss arising out of insurrection and rioting of its a wing.

Warranted that safety precautions are followed by the workers/employees.

Contractors and sub-contractors employees are covered.

Supports:- 1. All other Terms, Conditions and Exclusions as per attached Policy Wording. 2. In case of payment by cheque, in the event of dishonor 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 : 23065378  
Date of Issue : 07/02/2019  
Place of Issuance : Mumbai\*  
\*Address omitted below.

(Authorized Signatory)

Note: This document is digitally signed by Sharada Ramakrishnan, Authorized Signatory of Future Generali India Insurance Company Limited on 07/02/2019

The stamp duty of Rs 67.15 paid by Letter Of Authorization No. CSB/518/2018/217914, dated 16/09/2018. Mail No. - 20/74C, R.9746-1, dated 09/01/2018.

Product UIN : IRDANT32P0012V01200708

Future Generali India Insurance Company Limited, Corporate & Registered Office: 4th Floor, Tower - 3, Indiabulls Finance Centre, Integrated Bopal Marg, Bhopal, Madhya Pradesh - 466043, Maharashtra, India. Phone: 1800-210-211, 1800-305-3333, 020-67817800. Email: [fgi@futuregenerali.in](mailto:fgi@futuregenerali.in), Website: [www.futuregenerali.in](http://www.futuregenerali.in) RDA Reg.No. 1E2, CH - 106010A/125060PL/CH1261.

## Appendix O.C: PUC Certificates

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

Vehicle Registr. No.: **WB08G1752** WB-01-**D 4231066**

Date of Issue: **07-May-2019** Valid upto: **06-May-20**

Pollution Level:  
CO (%) **44.1%**  
HC (ppm) **44.1%**  
SO (HSD) **44.1%**

PUC Certificate issued by: **MIL ENTERPRISE** License No. and Seal: **151/AETC/2018**

Signature: *[Signature]* Vehicle Pass: **Vehicle Pass**

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

Transport Department: **MIL ENTERPRISE**  
BP RAJARHAT NEW TOWN, KOLKATA - 700156, WEST  
PH: 9432010995

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

PUC No.: **FWB0001000006** Vehicle Reg No: **WB08G1752**

Name: **NCC LIMITED** Category: **car**

Address: **NEW TOWN** Make: **MAHINDRA**

**KOL-156** Model: **BOLERO**

Mobile: **9830728872** Date of Reg.: **2019**

Date: **07-May-2019** Speedo mtr Rdg: **252**

Time: **11:17 AM** Engine No.: **16280**

Fuel: **Diesel** Chassis No.: **32097**

Flushing Cycle Mean: RPM Min: **0820** RPM Max: **1923** Emission Norms.: **BS-IV or Onwards**

Vehicle Type: **BS4 - 4 Wheeler**

SNs	RPM min	RPM max	Km-l	BSU %	OTF C
1	0710	2050	01.23	41.2	042.00
2	0720	2110	01.47	46.9	041.00
3	0720	2080	01.38	44.2	041.00

Standard	Measured
Km-l	1.62 01.35
BSU %	60 44.1

Valid upto: **06-May-20**

Grade: **B**

Test Fee: **100**

Mean **0716 2080 01.35 44.1% 041.33**

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

Seal of Testing Centre

*[Signature]*  
Authorized Signatory

JNDUS DiesX 2.8.6/0000-0000/4660

**POLLUTION UNDER CONTROL CERTIFICATE**  
(Under the West Bengal Motor Vehicles Rules, 1986)


Vehicle Registrn. No. **PB02BL7373** WB-01-D **5679142**

Date of issue: **16-08-2019** Valid upto **15-02-2020**

Pollution Level

CO (%)	
HC (ppm)	
PM <sub>10</sub> (µg/m <sup>3</sup> )	45.83

PUC Certificate No. **32/D**

Signature 

WB-01-D **5679142**

**COMPUTERISED EMISSION TEST CERTIFICATE**


CMVR AUTHORISED BY : Govt. of we  
AKBAR AUTO EMISSION TESTING CENTRE

BASANTI HIGHWAY, GHATAKPUKUR, PO/PS-BHAGAR, 24 PGS (S), W.B-743502

I.D Number WB32D3647572 Licence No: 32/D  
Year Of Registration= 2011 Date :16-08-2019  
vehicle registration no = PB02BL7373 TIME= 02:47:14  
Spedometer Reading[kms] =21522 Owner= N C C CO  
Engine Number=9218 Driver:- SELF  
chasis Number=G2011 Test Fee : Rs.100/-  
Vehicle Colour = YELLOW Fule : Diesel  
Vehicle Make : JCB Smk cell Temp : 00  
Vehicle Model : 3DX Oil Temo : 93.0  
Type Of Engine :OTHERS Valid Up To : 15-02-2020  
Type OF Vehicle: OTHERS Grade :

Test Result : Free Acceleration Validity 6 Months

	ideal Rpm	max Rpm	K Value	Hsu val	Oil Temp
1	860	2900	5.37	90.06	61
2	860	2900	0.17	6.9	68
3	852	2700	0.12	6.9	66
Avg	860	2930	1.9	55.83	



Seal Of Testing Center

Certified that this Vehicle's K-Mean and hsu% value conforms to the standards



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

Vehicle Registr. No. **WB-30P-5178** WB-01 **D 4448893**

Date of issue: **26-Jun-2019** Valid upto: **25-Dec-2019**

Pollution Level

CO (%)	2.527
HC (ppm)	1490
SD (HSU)	

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

Signature: *[Signature]* **26/06/19**

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

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

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

PUC Number: P00000001437 Vehicle Type: 2 Wheeler

Name: NCC LTD Reg. No.: WB-30P-5178

Address: Reg. Date: Nov-2013

Manufacturer: Bajaj

Model: Discover

Engine Type: 4 Stroke

Test Date/Time: 26-Jun-2019 10:16 Odometer Rding: 0

Catalyst: No Engine Number: 05086

Chassis Number: 75215

Fuel	Petrol		Diesel	
	Regulation	Measured	Regulation	Measured
CO (%)	3.5	2.527		
HC* (ppm)	1500	1490		
CO2 (%)		2.53		
O2 (%)		14.9		
NOx (ppm)		0		
RPM:		0		
OT (°C):		0		
AFR:		-		
Lambda:		-		
PEF:		0.501		
CO-Aet (%)		7.495		

\*Read as RHC for LPG and HHC for CNG

Test Result: **PASS**

Grade: **B**

Valid Upto: **25-Dec-2019**

Test Fee: **Rs. 80**

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

## Appendix O.2: Contractor's OHS Policy Statement

NCC Ltd.	<b>OH&amp;S PLAN</b> 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 on adequate measures.
- Reduction of negative impact on the neighborhood and 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 prevent similar events occurring again.
- Preserve ecological balance and heritage.

Prepared by:	Copy No.	Date of Issue:	Approved by:	Issued by:
--------------	----------	----------------	--------------	------------

**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:	

**অভিযোগ/ পরামর্শ/ মন্তব্য/ প্রশ্নাদি লিপিবদ্ধ করার নমুনা পত্র**

এই \_\_\_\_\_ প্রকল্পটি সৃষ্টি 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 স্বার্থ সঙ্গত 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 <b>Registration</b> এর স্থানঃ		
	গ্রক- 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- দয়া করে কে, কি, কোথায় এবং কিভাবে - অভিযোগের এই বিশদ বিবরণ নিচে লিখুন-			
যদি কোন অতিরিক্ত কাগজ জড়তে 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 -

আনুমোদনকারী -

তারিখ-







<b>NCC LIMITED</b>	Design and Construction of Overhead Reservoir Including Water Supply Distribution Network and Metering Work in Bhargar-II Block	Doc. No. NCC/ SEMP /01 Revision No. 00 Revision Date : 00 Page 1 of 9 Effective Date :	
	<b>Site Specific Environmental Management Plan</b>		

## SITE SPECIFIC ENVIRONMENTAL MANAGEMENT PLAN

### WBDWSIP BHANGAR-II BLOCK

#### LOCATION – ZONE- 4,PIPE LAYING (Swastyan Gachhi)

0	16.07.2019				
REV	DATE	PREPARED BY	CHECKED BY	APPROVED BY DSISC	APPROVED BY PIU

Environmental Specialist, DSISC  
North 24 Parganas  
WBDWSI Project

Assistant Engineer - II  
PIU, N-24Pgs.,WBDWSIP, PHE Co.  
Govt. Of West Bengal

1

Package No.				ZONE- 4 in N24P/02B, Pipeline (Swastyangachhi) PIU – N24P							
Package title				Design and Construction of Overhead Reservoir Including Water Supply Distribution Network and Metering Work in Bhargar-II Block							
				SEMP is as per requirement of the Draft IEE covering package no. N24P/02B							
Contractor				NCC Pvt. Ltd.							
Date of Contract Award				19/09/2018							
Date of particular works commencement				14/6/2019							
Contract period				Construction: 3 Years ; O&M: 2 Years							
SEMP Component				Laying of 35285m of pipeline as detailed below.							
				No demolition activity involved							
Gram Panchayats				Polerhat-I							
Project Description				Individual household water supply schemes for the project Gram Panchayats							
Household Connection				2325 (Estimated HH Connection)							
Non-Household Connection				All Commercial, Educational, Religious and Health institutions will get potable water from this project. Numbers are not identified							
Indicative Budget for EMP Implementation for the entire package				INR 21,42,500/-							
Project Components				As per project detailed design							
Gram Panchayat (GP): Polerhat-I											
Water Distribution Pipe Length (m) Summary											Total Length
Zone ID	Pipe Diameters(mm)										
	63*	75*	90*	110*	140*	200*	250	300	350	400	
Zone - B4	19357	2154	1359	5072	4317	2484	497	45			35285
Map of Distribution Network											
Refer Appendix – P1											
Details of contractors on-site-personnel and workers							Zone-4 Pipeline/Polerhat-I GP				
Project Manager							Mr. Durga Prasad; 9836803672				
Site Engineer							Mr. Amlan Singha Roy; 9734667934				
Site Supervisor							Mr. Amlan Singha Roy; 9734667934				
EHS Supervisor							Mr. Nitin Sartape; 8971107720				
Archeological supervisor							NA				
Skilled / semi-skilled workers							2 skilled and 2 Semi-skilled				
Unskilled workers							6				
Women workers							Nil				
Workers – local / migrant							Local-Nil / Migrant from same state-10				
Details of facilities											
Construction camps, (no's and locations)							1 at Swastyangachhi				

**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"> <li>Locations and operators of these utilities to be identified as per detailed design documents to prevent unnecessary disruption of services during construction phase.</li> <li>Prepare spoils (Waste) management plan.</li> </ul>	<ul style="list-style-type: none"> <li>Contingency Plan has been developed by informing to emergency services like WBSEDCL, Telecommunication, local administration and police etc.</li> <li>First we are digging the trial pit manually, if any obstruction arise the same is removed as per direction of end user</li> <li>The pipe laying work to continue without disturbing the existing water pipelines and electric poles and overhead HT line.</li> <li>Flagman deployed on-site with Red and Green flags to control traffic and activity side by side.</li> </ul> <p>Please refer <b>Attachment P7 and P8</b> 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"> <li>Seasonal climatic variations should be taken into account during scheduling of construction in the area.</li> </ul>	<ul style="list-style-type: none"> <li>Excavation works schedule during dry season have been approved by PMU.</li> <li>If excavation work is to be conducted during rainy season then preventive measures will be taken like dewatering from the trench</li> <li>During laying use of Gumboot is a must.</li> <li>To avoid slip, trip and fall, no one is allowed within the barrication area.</li> </ul>	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 natural drainage patterns, ponding and water	<ul style="list-style-type: none"> <li>Obtain construction materials only from government approved quarries with prior approval of PIU.</li> <li>On a monthly basis documentation on material obtained from each source (quarry/borrow pit) should</li> </ul>	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

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.	be submitted. • 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"> <li>• All necessary consents, permits, clearance, NOCs, etc prior to award of civil works should be obtained.</li> <li>• All necessary approvals for construction to be obtained before start of construction.</li> <li>• Acknowledge in writing and report on compliance consents, permits, clearance, NOCs etc. obtained.</li> </ul>	<ul style="list-style-type: none"> <li>• We have already received pipe laying permission from local authorities, electric connection, water source etc.</li> <li>• NOC taken from Gram Pradhans for carrying out the activity.</li> <li>• DG sets of capacity less than 5 kVA only being used.</li> <li>• Refer <b>Attachment P3</b> for relevant clearances.</li> </ul>	Contractor and PIU	DSISC observation at site and document checking	Project cost
Asbestos Cement Pipes	Health risk due to exposure to asbestos materials	<ul style="list-style-type: none"> <li>• Obtain details on location of underground Asbestos Cement pipes</li> <li>• Locate the new pipe carefully to avoid encountering AC pipes</li> <li>• Leave the Asbestos Cement pipes undisturbed in the ground.</li> </ul>	Pipelaying work will be continued without disturbing existing pipelines as recommended in the IEE No asbestos pipes seen till work period			

**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 procurement	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 <b>Attachment P4</b> 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"> <li>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"> <li>Only vehicles having valid Pollution Under Control Certificates should be engaged in the project.</li> <li>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.</li> </ul> </li> <li>Damp down soil, sand/ earth stockpiled at site should be maintained as per site condition.</li> <li>Control unnecessary movement of vehicle, public trespassing into work areas for control of dust generation.</li> </ul>	<ul style="list-style-type: none"> <li>Only vehicles having valid PUC certificate have been engaged in the project.</li> <li>Sprinkling and dust screen arrangement have been made, and will be used when required.</li> <li>Workers has been instructed to always use dust mask while working in the trench.</li> <li>Site has been access controlled to prevent trespassing.</li> <li>Excavated earth piles will be maintained in such a way to minimise dust rising.</li> <li>Air quality monitoring has been conducted at following five places (<b>Near School Swastayangachhi. Zone-04, Near Paschim Majarhat primary school Shanpukuria. Zone-10, Dharmatala Pachuria Zone:-01 Nangla Palpur Zone:-09</b>) in the Bhangar II Package.</li> </ul>	Contractor	PIU through DSISC observation at site	Project cost
Drainage and hydrology	Due to the nature and locality of the projects there is unlikely to be any significant	<ul style="list-style-type: none"> <li>The site surface should be engineered and shaped in such a way that rapid and efficient evacuation of runoff is achieved.</li> </ul>	<ul style="list-style-type: none"> <li>We have ensured run-off through the site to a local drain does not contaminate existing drain and pond around the project site.</li> <li>Dewatering, if any and hydrotest water, will be also discharged to local drains after ensuring no</li> </ul>	Contractor	PIU through DSISC observation at site and document checking	Project cost

Field/ Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
	impacts on water resources within the immediate area.		contamination.			
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"> <li>• Avoid stockpiling of earth fill; especially in monsoon season, cover it with tarpaulins or plastic sheets.</li> <li>• Prioritize and implement reuse of excess spoil and materials in the construction work; if necessary, dispose in designated disposal area.</li> <li>• Storage locations should have impervious floors</li> <li>• Fuels and lubricants should be stored away from drainage and spillage protection should be provided.</li> </ul>	<ul style="list-style-type: none"> <li>• Excavated earth from dug trenches will be stacked along the pipeline and away from drainage locations/ nearby water bodies.</li> <li>• Locations for fuels and lubricants store is away from drainage path and spill kits have been obtained.</li> <li>• All excavated soils are expected to be utilized on-site only. No excess spoil anticipated.</li> <li>• Surface water monitoring has been conducted already following two places (<b>Koach Purur Zone-15, and (Majer hat) Zone-10, Shanpukuria</b>) in the Bhangar II project as per Environmental Monitoring Plan recommended in the IEE.</li> </ul>	Contractor	PIU through DSISC observation at site and document checking	Project cost
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"> <li>• For flora protection, tree cutting is strictly prohibited; if necessary then obtain permission through proper channel.</li> <li>• 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.</li> </ul>	<ul style="list-style-type: none"> <li>• Few trees are present along the existing alignment; cutting of tree strictly banned without regulatory clearance, if necessary trimming allowed.</li> <li>• So far no faunal movement has been observed in this site.</li> </ul>	Contractor	PIU through DSISC observation at site and document checking	Project cost
Noise Levels	Increase in noise level due	<ul style="list-style-type: none"> <li>• Minimize noise from construction equipment by using vehicle silencers,</li> </ul>	<ul style="list-style-type: none"> <li>• Consultation made with local communities in advance of the work</li> </ul>	Contractor	PIU through DSISC	Project cost

Field/ Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
	to earth-moving and excavation equipment, and the transportation of equipment, materials by labours	<p>fitting jackhammers with noise-reducing mufflers minimising the sound impact to surrounding sensitive receptor;</p> <ul style="list-style-type: none"> <li>• Horns not to be used unless it is necessary to warn other road users;</li> <li>• Maintain maximum sound levels not exceeding 75 decibels (dbA). When measured at a distance of 1m from the vehicle/s.</li> <li>• Baseline and construction phase Noise Monitoring (Day &amp; Night time) should be conducted.</li> </ul>	<p>to identify and avoid working at sensitive times, such as religious and cultural festivals.</p> <ul style="list-style-type: none"> <li>• Noise quality Monitoring has been conducted at following five places (<b>Majerhat Sanpukuria Zone:-10, Near Swastayan gchhi School Zone :-04, Dharmatala Pachuria School Zone:-01, Nangla Palpur Zone:-09, Near Coch Pukur Primary School Zone:-15</b>) in the Bhangar Project for Environmental Monitoring Report.</li> <li>• DG set (less than 5 kVA) are used for connecting the HDPE lines. This is properly maintained and stopped immediately after completion of work.</li> </ul>		observation at site and document checking	
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"> <li>• Prepare a construction waste management plan for site.</li> <li>• 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.</li> <li>• As far as possible utilize the debris and excess soil in construction purpose such as for site filling and labelling purpose.</li> <li>• 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</li> </ul>	<ul style="list-style-type: none"> <li>• Spoil management plan has been developed [Refer <b>Attachment P7</b>]</li> <li>• Excavated earth is utilized for backfilling purpose.</li> <li>• Excavated earth will be backfilled on the same day.</li> </ul>	Contractor	PIU through DSISC observation at site and document checking	Project cost

Field/ Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
		sensitive area.				
Occupational Health and Safety	Occupational hazards which can arise during work	<p>Develop and implement a site specific occupational health and safety(OHS) plan which will include measures such as:</p> <ul style="list-style-type: none"> <li>(a) excluding public from the site;</li> <li>(b) ensuring all workers are provided with and use personal protective equipment like Helmet, Gumboot, Safety Belt, Gloves, Nose mask etc.</li> <li>(c) documentation of work related accidents.</li> <li>(d) Providing qualified first aider at all times.</li> <li>(e) Providing to all workers reflective jacket,</li> <li>(f) Marking and providing sign boards for most of hazardous areas such as high voltage equipment,</li> <li>(g) Workers allowed exposure to noise level up to 85 dB (A) only.</li> </ul>	<ul style="list-style-type: none"> <li>Based on NCC's OHS Plan, a site specific OHS plan has been developed.</li> <li>Site OHS plan is attached at <b>Attachment - P4</b>.</li> <li>All workers have been provided with and made to use Personal Protective Equipment like helmet, gumboot, reflective jacket, gloves, nose mask and ear plugs;</li> <li>H&amp;S Training for all site personnel has been arranged and it will be continued;</li> <li>H&amp;S orientation training provided to all new workers to ensure that they are apprised of the basic site rules of work at the site, personal protective protection, and preventing injuries to fellow workers;</li> <li>Documented procedures are followed for all site activities;</li> <li>Work-related accidents will be recorded;</li> <li>Bottled water provided at site.</li> <li>First Aid box provided at working sites;</li> <li>Clean eating areas provided to workers;</li> <li>Moving equipment maintained with audible back-up alarms</li> </ul>	Contractor	PIU through DSISC observation at site and document checking	Project cost
Socio Economic Employment	Generation of temporary employment and increase in	<ul style="list-style-type: none"> <li>Employ local labour force as far as possible</li> <li>Comply with labour laws</li> </ul>	<ul style="list-style-type: none"> <li>Local labours are employed, on priority, whenever available.</li> <li>Refer <b>Attachment P3</b> for documents relating to statutory</li> </ul>	Contractor	PIU through DSISC observation at site and	Project cost



Field/ Issues	Anticipated Impact	Recommended Mitigation Measures	Actions Taken/ Status	Responsibility of Implementation	Monitoring of mitigation	Cost and source of fund
	local revenue		compliances		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"> <li>• 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)</li> <li>• Use unused, vacant lands; no trees shall be cut</li> <li>• Provide a proper fencing/compound wall</li> <li>• Prepare a site layout plan &amp; display at the site; uniformly label (name boards) all the places in the facility</li> <li>• Entire site/facility area shall be provided with hard levelled surface as appropriate; no loose soil, slush, water logging etc.,</li> <li>• Living quarters and construction camps shall be provided with standard materials; no shacks or huts</li> <li>• Adequate lighting and ventilation</li> <li>• Provide drinking water, water for other uses, and sanitation facilities; drinking water should be regularly tested</li> <li>• Provide clear pathways for safe movement</li> </ul>	<ul style="list-style-type: none"> <li>• Before locating project offices, sheds, and construction plants we discussed with DSISC and within or nearest place has been selected,</li> <li>• Till date no trees have been cut and no any destruction of property, irrigation and drinking water supply systems observed,</li> <li>• Employees are trained for storage and handling of materials which can potentially cause soil contamination and water contamination;</li> <li>• Solid waste managed according to the following preferential hierarchy: reuse, and disposal to designated areas; Kitchen wastes collected in a dustbin then it is disposed outside from area to designated disposal location,</li> <li>• Daily generated effluent disposed by arrangements already present in camp/ household.</li> <li>• The details of labour accommodation is presented in</li> </ul>	Contractor	PIU through DSISC observation at site and document checking	Project cost

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"> <li>Provide cooking fuel (cooking gas); and a separate safe place to cook; fire wood not allowed</li> <li>Construct septic tanks and soak pit arrangement for wastewater disposal</li> <li>Solid waste shall be properly managed – provide separate bins, compost biodegradable waste; sell recyclable waste.</li> <li>According to rule and regulation camp will be vacated and restored to pre-project conditions before acceptance of work.</li> </ul>	<b>Attachment P2.</b>			
Archaeological and Cultural characteristics	Risk of archaeological chance finds	<ul style="list-style-type: none"> <li>Strictly follow the protocol for chance finds in any excavation work;</li> <li>Construction staff members should be made aware of the likelihood of heritage resources being unearthed and of the scientific importance of such discoveries.</li> </ul>	<ul style="list-style-type: none"> <li>No archaeological chance finds are reported at project sites till date.</li> <li>If there is any such finding, action will be taken up as per requirement.</li> </ul>			

**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)	PM <sub>10</sub> , PM <sub>2.5</sub> , NO <sub>2</sub> , SO <sub>2</sub> , CO	Once before start of construction Quarterly (yearly 4- times) during construction (2-year period considered)	<b>Near School Swastayangachhi. Zone-04, Near Paschim Majarhat primary school Shanpukuria. Zone-10, Dharmatala Pachuria Zone:-01 Nangla Palpur Zone:-09</b>	225,000
Ambient noise	5 locations (same as air quality monitoring)	Day time and night time noise levels (24 hours)	Once before start of construction Quarterly (yearly 4- times) during construction (2-year period considered)	<b>(Majerhat Sanpukuria Zone:-10, Near Swastayan Gachhi School Zone :-04, Dharmatala Pachuria School Zone:-01, Nangla Palpur Zone:-09, Near Coch Pukur Primary School Zone:-15</b>	67,500

Surface water quality	2 locations (to be selected during implementation)	pH, Oil and grease, Cl, F, NO3, TC, FC, Hardness, Turbidity BOD, COD, DO, Total Alkalinity	Once before start of construction Half yearly during construction (2- year construction period considered)	<b>Koach Purur Zone:-15, and (Majer hat) Zone-10, Shanpukuria</b>	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 are responsibility of concerned Contractor and cost for such already budgeted in the IEE..