

Corrigendum 4 dated June 03, 2021 to Tender Specification BHEL PSSR SCT 1959

Corrigendum 4 dated June 03, 2021 to Tender Specification BHEL PSSR SCT 1959 for the Pre Bid Tie Up for Civil, Structural and Architectural works for Integrated Talabira Township and associated works on Engineering, Procurement and Construction (EPC) basis at 3 x 800MW Talabira Power project, Jharsuguda, Odisha

1. Clause 2.13.9 of GCC is revised as given below:

2.13.9 Contractor to submit Bank Guarantee as per prescribed formats for each of the advance and shall be valid for at least one year or the recovery duration whichever is earlier. In case the recovery of dues does not get completed within the aforesaid BG period, the contractor shall renew the BG or submit fresh BG for the outstanding amount, valid for at least one year or the remaining recovery duration whichever is earlier.

3. The Corrigendum/Corrigenda published by the Customer (59 pages), relevant to the Technical Specifications in Part-II of Volume IA Technical Conditions of Contract, is enclosed with this Corrigendum as Enclosure 1.

4. Some of the Bidders had raised queries on the published tender Specifications. The clarifications are furnished below:

Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
1.	Volume- IA Book I Technical Conditions of Contract: Township Drawings	Township Drawings	AutoCAD drawings for buildings and layout. The bidder requests BHEL to provide AutoCAD drawings for all the buildings.	AutoCAD drawings for all the buildings are not available. Bidder may quote accordingly
2.	Volume- IA Book I Technical Conditions of Contract: Geotechnical Investigation	Geotechnical Investigation	Bidder requests BHEL to provide detailed geo technical investigation report for township area.	Carrying out detailed Geotechnical Investigation is in Bidder's scope. Refer clause 1.2.2.1 in Chapter II, Part I, Volume-IA,TCC.
3.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), In Part-II (Technical),	PARK: A park shall be designed aesthetically and constructed	Bidder requests BHEL to provide details of park scheme i.e. the dimension of park and instruments to be installed.	The design of the park is in the scope of the Bidder.

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Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
	Chapter III-Integrated Talabira Township Under Clause 6-Miscellaneous Buildings/Structures Sub-Clause 6.6: Park, Playground and statue (Page 331 of 553 of SCT1959TCCPart1.pdf)			
4.	----	-----	Bidder requests client to confirm the scheme and scope of horticulture scheme.	The scheme of horticulture is in the scope of the Bidder. The successful bidder shall submit the scheme for approval.
5.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), In Part-II (Technical), Chapter III-Integrated Talabira Township Under Clause 5-Non-Residential Buildings Sub-Clause 5.3 VIP Guest House – G+1 RCC framed structure		VVIP guest house drawing is missing from the shared set of drawings. Bidder requests client to provide drawing for the same.	The detailed design of the VVIP guest house is in the scope of the Bidder

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Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
	(Page 323 of 553 of SCT1959TCCPart1.pdf)			
6.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), In Part-II (Technical), Chapter III-Integrated Talabira Township Under Clause 3-General Technical Requirements for Township Civil Infrastructure Works/ Sub-Clause on Sewage network (Page 318 of 553 of "SCT1959TCCPart1.pdf")		Bidder understands that a STP is required inside township. Bidder request BHEL to provide layout for STP.	The detailed design and layout of the STP is in the scope of the Bidder
7.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), In Part-II (Technical), Chapter III-Integrated Talabira Township		Bidder understands that main water pipeline to township is not in scope of bidder. Request to confirm.	Main Water pipeline network from Power plant WTP to township is under the scope of the bidder.

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Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
	Under Clause 3-General Technical Requirements for Township Civil Infrastructure Works/ Sub-Clause on Water supply within township (Page 315 of 553 of SCT1959TCCPart1.pdf)			
8.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), In Part-II (Technical), Chapter III-Integrated Talabira Township Under Clause 3-General Technical Requirements for Township Civil Infrastructure Works/ Sub-Clause on Water supply within township (Page 315 of 553 of SCT1959TCCPart1.pdf)		Bidder requests to clarify if a WTP is required inside township. If yes, kindly provide details related to it.	WTP is not required inside the township.
9.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2		Bidder requests BHEL to provide detail scope of solid waste management. Kindly confirm if a compost plant is required.	The detailed design of solid waste management is in the scope of the Bidder

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Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
	In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), Part-II (Technical) Under Clause 3-General Technical Requirements for Township Civil Infrastructure Works/ Sub-Clause on Additional Requirements (Page 319 of 553 of SCT1959TCCPart1.pdf")			
10.	Volume- IA Book I Technical Conditions of Contract:		General Bidder requests BHEL to provide list of approved makes.	List of Approved makes is enclosed as Annexure-2 to this Corrigendum.
11.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-1 In table-1A (I&T), Pre bid clarification Sl.no: 2, Page no:1 (2 of 1335) (Page 37 of 553 of SCT1959TCCPart1.pdf")	NLCIL's Reply: Preliminary topographical survey contour drg. Of Township attached in AUTOCAD format (refer tender drawing C26) Drawing Enclosed Other works under bidder's scope. For Route map. Ref (Corrigendum-3)	Since grading and levelling is in the scope of bidder, we request you to provide the Autocad drawing of the topographical survey.	Contour Drawings for Integrated Township is enclosed as Annexure-3 to this Corrigendum.
12.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-1 Pre bid clarification , Sl.no: 24 (397),	11kV Double Circuit Transmission line from Plant Area to Township.	We presume that 11 kV double circuit transmission line along with route survey from plant area to township is excluded from the scope of bidder. Please confirm.	11 kV double circuit transmission line along with route survey from plant area to township is excluded from the scope of bidder

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Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
	Page no:15 (16 of 1335) (Page 60 of 553 of SCT1959TCCPart1.pdf)			
13.	Volume· IA Book I Technical Conditions of Contract: Part- II, Chapter-1 Pre bid clarification, Sl.no: 28 (449), Page no:17 (18 of 1335) (Page 62 of 553 of SCT1959TCCPart1.pdf)	Establishing Surveillance system for the required locations along with Surveillance data recording and monitoring facilities at required locations with access control and security. Minimum 5MP Resolution IP Camera with NVR & NVR shall have all basic analytics feature with storage of minimum 30 days (camera shall be fixed at main entrance gate ,VIP house ,TA office entrance, guest house entrance & for township area	Please confirm whether surveillance system is included in the scope of bidder. Also in the pre bid clarification it is indicated that “camera shall be fixed at main entrance gate, VIP house, TA office entrance, guest house entrance & for township area ” We are unable to understand the requirement “ for township area ” Please elaborate the same.	Surveillance system is included in the scope of bidder. Design of the Surveillance System is in the scope of the bidder. Bidder to quote accordingly.
14.	Volume· IA Book I Technical Conditions of Contract: Part- II, Chapter-1 Pre bid clarification, Sl.no: 37 (492), Page no:21 (22 of 1335) Sl.No: 43 (534), 44 & 45 (535 &536), Page no : 26 & 27 (27 &28 of 1335) (Page 66, 71, 72,73 of 553 respectively of SCT1959TCCPart1.pdf) & Volume· IA Book I	b) Main approach road to township and dedicated approach road from township to power plant deleted from scope of bidder.	Please confirm whether main approach road and dedicated approach road from township to power plant is excluded from the scope of bidder. As per BHEL scope document no: PE-TS-N80-Township- C001, Sl. No: 1.0, (e) & (g), page no: 3 of 7 it is indicated that main approach road and dedicated road are in the scope of bidder whereas the pre-bid clarification provided by the end	Main approach road and dedicated approach road from township to power plant is excluded from the scope of bidder

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Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
	Technical Conditions of Contract: Part- II, Chapter-2 Specification No.: PE-TS-N80-Township- C001, Volume-IIB, Section-A Sl. No: 1.0, (e) & (g), sheet: 3 of 7 (Page 258 of 553 of SCT1959TCCPart1.pdf")		customer (NLCIL), the same is excluded from the scope of work. Please review and confirm.	
15.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 Specification No.: PE-TS-N80-Township- C001, Volume-IIB, Section-A Sl. No: 1.0, (h) , sheet:: 3 of 7 (Page 258 of 553 of SCT1959TCCPart1.pdf")	Main Drinking Water pipeline network from Power plant WTP to township.	Please confirm whether the main drinking water pipe line network from power plant WTP to township is included in the scope of bidder. If included, please provide the route survey map of pipe line. We also presume that necessary RoU/ RoW along with the fees to be paid will be obtained by M/s. BHEL. Please confirm.	Main Water pipeline network from Power plant WTP to township is under the scope of the bidder. Bidder to also refer clause 1.2.8 in Chapter II, Part I, Volume-IA,TCC.
16.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 Specification No.: PE-TS-N80-Township- C001, Volume-IIB, Section-A Sl. No: 1.0, (k) , sheet:: 4 of 7	k)STP within township including recycling of treated water	Only the capacity of the STP is provided in the tender document (1 MLD). We request you to kindly provide the detailed specification for STP required for township. Based on the technology the cost of STP varies.	The detailed design and layout of the STP is in the scope of the Bidder

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Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
	(Page 259 of 553 of SCT1959TCCPart1.pdf)			
17.			FGL of Township area	Finalization of FGL of township shall be done by Successful Bidder in consultation with BHEL/NLCIL.
18.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2	3.0 Terminal Points	1. Please confirm only one pipe line has to be supplied and laid by bidder from the terminal point (Near raw water reservoir, at the power plant boundary).	1.Confirmed. There will be only one pipe line to be laid by bidder from terminal point at plant boundary to township.
	Specification No.: PE-TS-N80-Township- C001, Volume-IIB, Section-A Sl. No. 3.0, sheet:: 7 of 7 (Page 262 of 553 of SCT1959TCCPart1.pdf)	For Drinking water pipe line At plant boundary near raw water reservoir (as shown in the attached drg)	2. Please confirm whether Service water and potable water one and same and no two separate line are required to be laid from power plant	2.Since Service water and portable water are same, only one pipe line to be laid.
	&	&	3. The roof top of the individual residential and non-residential units/buildings in township will have only common tank for both service water and potable water	3.Bidder's understanding is correct.
	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), In Part-II (Technical), Chapter III- Integrated Talabira Township	Cement Mortar lined Ductile Iron (CMDI) main water pipeline of suitable diameter shall be laid below ground level (Crust of pipe Minimum 1.20 m below ground level) from WTP in power plant to township.....	4. We presume that the water received from Power plant to town ship will be received in UG sump and the same is pumped into overhead tank	4.Water received from power plant after reaching township shall be pumped to RCC overhead tank (OHT). Also, provision to be given for adequate number of underground sump. Please refer extract of

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Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
	Under Clause 3-General Technical Requirements for Township Civil Infrastructure Works/ Sub-Clause on Water supply from power plant to township Page no: 74 of 280 (Page 315 of 553 of "SCT1959TCCPart1.pdf")			specification (provided as Enclosure 4 to this Corrigendum) for clarity.
			Please review the above and provide with a P&ID for township water system.	Developing P&ID for township water system is in the scope of Township vendor.
19.	Volume: IA Book I Technical Conditions of Contract: Part- II, Chapter-2 In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), In Part-II (Technical), Chapter III-Integrated Talabira Township Under Clause 3-General Technical Requirements for Township Civil Infrastructure Works/ Sub-Clause on Additional requirements (Page 319 of 553 of "SCT1959TCCPart1.pdf")	<u>Additional requirements:</u> Solid Waste Management system	There is no detailed specification provided in the tender document regarding the requirement of solid waste management system. Please provide us with the detailed specification and scope of work. (Or) request you to delete the same from the scope of bidder. Please review and confirm.	The detailed design of solid waste management is in the scope of the Bidder

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Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
20.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 Integrated Township for NTPP& Talabira II & III OCP Mines, Odisha, Annexure Drawing no: C1 (Page 538 of 553 of "SCT1959TCCPart1.pdf")	Legend: Non-residential building (8), Space for bank & Post office	We presume that while preparing the layout plan, bidder needs to allocate only space for bank and post office. EPC of Bank & post office is excluded from the scope of work. Please confirm whether bidders understanding is correct.	Bidder's understanding is correct.
21.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 Specification No.: PE-TS-N80-Township- C001, Volume-IIB, Section-A Sl. No: 1.2 (7) , sheet: 6 of 7 (Page 261 of 553 of SCT1959TCCPart1.pdf)	It is also to be noted that in case any other works are in progress or under execution nearby the Ash dyke area, the work shall be planned and executed in such a way that the same shall not affect others work. No claim will be entertained by BHEL & NLC/ customer's consultant on ground of lack of knowledge on this account.	1.We could not able to under the scope of work near ash dyke area. As this tender is for development of township and the same is confined to a location away from ash dyke. 2.Please confirm whether the excess earth available while developing (By others) ash dyke can be utilised for the grading works of township. If so the same shall be supplied to bidder free of cost. Charges towards loading and carting will be borne by bidder.	This particular tender clause stands deleted.. Earth for township package shall be arranged by the Bidder within the quoted price.
22.	Volume- IA Book I Technical Conditions of Contract: Part- I, Chapter-III: Facilities in The Scope of Contractor/BHEL (Scope Matrix) Clause No: 1.3.5.1	Electricity: Contractor shall make his own arrangementtill commissioning of the construction power system by BHEL	With refer to the construction power for township, please clarify/ confirm the following: 1. We request you to kindly confirm on the duration of commissioning the construction power system by BHEL. This will enable bidder to consider the	1. Duration of commissioning the construction power system by BHEL cannot be indicated at this point of time. 2. Since Power Supply is in bidders scope he can use TRANSCO power, DG Set or any other means

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Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
	(Page 12 of 553 of SCT1959TCCPart1.pdf)		construction power charges accordingly. 2. Until the commissioning of construction power system by BHEL, bidder will arrange power source the nearest state TRANSCO power supply and need not to be 100% from DG power. DG will be provided as backup incase of non-availability of construction power. 3. We presume that the construction power will free of cost post commissioning of the construction power by BHEL.	3. Construction power if provided by BHEL will be on chargeable basis.
23.	Volume- IA Book I Technical Conditions of Contract: Part- I, Chapter-III: Facilities in The Scope of Contractor/BHEL (Scope Matrix) Clause No: 1.3.4.1 (Page 12 of 553 of SCT1959TCCPart1.pdf)	Construction Water: The contractor shall make his own arrangement of water suitabletill commissioning of the construction water intake system from river Bhedan by BHEL	We request you to kindly confirm on the duration of commissioning the construction water intake system by BHEL. This will enable bidder to consider the cost accordingly.	Duration of commissioning the construction water intake system by BHEL cannot be indicated at this point of time.
24.	Volume- IA Book I Technical Conditions of Contract: Part- I, Chapter-III: Facilities in The Scope of Contractor/BHEL (Scope Matrix)	Contractor has to provide the pumps at the sump of intake systemfurther distribution will be arranged by contractor at their cost to go on without interruptions	We understand that bidder needs to install pumps in the construction water intake system which will be constructed by BHEL. Please confirm power required for these	Power required for construction water supply pumps will be chargeable if construction power is provided by BHEL.

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Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
	Clause No: 1.3.4.2 (Page 12 of 553 of SCT1959TCCPart1.pdf)		construction water supply pumps will be free of cost to bidder.	
25.	Volume- IA Book I Technical Conditions of Contract: Part- I, Chapter-II: Scope of Works Clause No: 1.2.4 (Page 6 of 553 of SCT1959TCCPart1.pdf)	The materials removed shall be disposed of as directed by Engineer –In-Charge.....	We presume that the maximum lead for disposal of excess material obtained from township area shall be 5.00 KM. Also we presume that the land required for disposal of such material will be arranged by BHEL. Please confirm.	Tender Conditions prevails.
26.	Volume- IA Book I Technical Conditions of Contract: Part- I, Chapter-II: Scope of Works Clause No: 1.2.9 (Page 6 of 553 of SCT1959TCCPart1.pdf)	Technical vetting is to be taken from IIT before submission of drawings to BHEL/Customer.	We presume that this vetting from IIT is only applicable for Structural drawings of civil works. Further the drawings of mechanical, electrical and architectural concepts need not be vetted by IIT. Please review and confirm.	Technical vetting for drawings of Civil, Architectural, Electrical & Mechanical is to be taken from IIT before submission of drawings to BHEL/Customer.
27.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-1 Pre bid clarification, Sl.no: 149 (1705), Page no: 72 (73 of 1335) (Page 117 of 553 of SCT1959TCCPart1.pdf)	Industrial Training Centre (ITC)	We presume that Industrial Training Centre (ITC) and associated MEP works are excluded from the scope of bidder. Please confirm.	It is confirmed that Industrial training centre and associated MEP works are not in the scope of bidder.

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Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
28.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-1 In “Annexure-C2I - Change in specification based on resolution for the Pre bid bidder queries received”, Pre bid clarification, Sl.no: 19 (365) (Page 57 of 553 of SCT1959TCCPart1.pdf) & Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), In Part-II (Technical), Chapter V, External Electrification Works Clause 1.01.00, Page 126 of 280 (Page 367 of 553 respectively of SCT1959TCCPart1.pdf)	Tender Spec Reference Section - A, Infrastructure Works / VOLUME: I-B, SECTION-A, PART-II,Chapter V, External Electrification Works, Cl.1.01.00, Page 126 of 280 Description as in Specification33kV Takeoff point at Mines entrance to inside thermal Power Project site up to the 2x6.3 MVA, 33kV/11kV substation. Description as in specification Bidder requests Owner to provide following: a) 33kV Mine substation layout b) 33kV Take off point at Mine substation for bidder terminal c) ROW corridor for 33kV/11kV double circuit transmission lines from Mines, raw water area and Township. Description To be read as Area levelling, site preparation & marking, Route survey and finalization of transmission line Right of way is under bidder's Scope. (Ref.: Cl. 1.00.00, Pg. No.: 125 of 280 & Cl. 2.00.02, Pg. No.: 128 of 280). The tentative location of 33kV Take off point (at Mines entrance) will be approximately 2.4 Km from SH-10 (Ref. Corrigendum-3, Approach Road Layout Drawing B22). The route of 33kV transmission line shall be designed as per the availability of ROW anywhere between SH-10 and this Take of point or at Take of point and upto the 2x6.3 MVA,	a) We understand that, bidder scope is to provide 33kV Double Circuit Transmission line across the Bhedan River, through lattice type steel structure with all accessories, supplies & services, from 33kV Take off point at Mines entrance to inside the integrated town ship up to the 2x6.3 MVA, 33/11kV substation (Location no. 13 as marked in drawing no.C1). Further 33kV Double circuit total transmission line length from Purchaser's take-off point at Mine entrance to 2x6.3MVA 33/11 kV substation located inside the township is considered as 2.4 kMtr. Please confirm your acceptance. b) The referred Drawing no. B22 is missing. Kindly furnish the drawing no. B22 duly indicating tentative location / Co-ordinates of 33kV Take off point (at Mines entrance) for our estimation purpose. c) We understand that, 11kV Double circuit transmission line route shall be designed as	33 KV power from Mines to Single Point in Main Plant Area and single point in Township Area will be completed by BHEL. 33/11 Kv Erection of Substation will also be completed by BHEL. The same is not under the scope of the bidder. Electrification within the premises of the Township will be under the scope of the bidder.

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Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply								
		33kV/11kV Construction Power Supply Substation location (Ref. Item No.: 71, Plot Plan, DRW No.:18A03-DWG-M-002A). The 11kV transmission line route shall be designed as per the availability for ROW from 2x6.3 MVA, 33kV/11kV Substation as above up to Township entrance Location No.1. (Ref.: Section-A, Chapter-VI, Drawings, Township Layout Drawing C1).	per the availability for ROW from 2x6.3 MVA, 33kV/11kV Substation (Location no. 13 as marked in Township layout drawing no.C1) and up to Township entrance gate (Location No.1 as marked in Township layout Drawing C1). Please confirm your acceptance. d) Except the above point no. (c), we have not considered any other 11 kV Double circuit transmission line in our scope of work. Please confirm your acceptance.									
29.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-1 In Tender Ref No.: CO CONTS/0015K/NTTPP/EPC/e- conts/2020 dt.18.11.2020 Pg. 62 /112 (Page 199 of 553 respectively of SCT1959TCCPart1.pdf)	4. DESIGN, ENGINEERING, MANUFACTURE, INSPECTION AT SUPPLIER'S WORKS, SUPPLY, FABRICATION, INSURANCE, TRANSPORT, STORAGE, ERECTION, TESTING, COMMISSIONING OF ROOF TOP SOLAR OF MINIMUM 900 KW (AC) AS PER SPECIFICATION DETAILED IN SECTION-B (INCLUDING CIVIL, ELECTRICAL AND ALL OTHER RELATED WORKS ETC, COMPLETE) FOR FOLLOWING BUILDINGS IN TOWNSHIP <table><tr><td>Sl Nos</td><td>Building name</td><td>Effective roof area (sq. m) - 80%</td><td>Estimated Generated power (KW) (Min)</td></tr><tr><td></td><td></td><td></td><td></td></tr></table>	Sl Nos	Building name	Effective roof area (sq. m) - 80%	Estimated Generated power (KW) (Min)					Detailed specification for solar roof top PV plant and its components shall be provided.	Detailed specification for solar roof top PV plant and other related details are provided as Enclosure 5 to this Corrigendum.
Sl Nos	Building name	Effective roof area (sq. m) - 80%	Estimated Generated power (KW) (Min)									

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Sl. No.	Reference Clause No.	Existing Provision				Bidder Query	BHEL reply
		1	Type IV Quarters	3373	240		
		2	Type III Quarters	3331	230		
		3	Type II Quarters	1747	125		
		4	Type I Quarters (NLCIL)	1236	80		
		5	Type I Quarters (CISF)	618	40		
		6	Executive hostel	2172	150		
		7	VIP Guest house	528	35		
			TOTAL	13005 m2	900 KW		
30.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), In Part-II (Technical), Chapter V, External Electrification Works Under Clause 11.10 Sub-Clause on CBCT Pg: 197 of 280	CBCT: Incomer shall have earth fault protection using CBCT and CAG12 relay in combination to operate for the unbalanced current. The CBCT inner dia shall be suitable to accommodate 3 runs of 3.5x150 sq.mm Al cable - 2 sets (1 set for each incomer).				As a standard practice CBCT is not provided for any of the incomers of LT SWGR. The earth fault protection will be taken care by respective incomer's protection CT & relay. Please confirm your acceptance.	Bidder to follow the specification. Also refer the terminal point for scope.

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Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
	(Page 438 of 553 respectively of SCT1959TCCPart1.pdf")			
31.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), In Part-II (Technical), Chapter V, External Electrification Works Under Clause 19.0: Energy Management System Sub-Clause on 19.1 Pg :228 of 280. (Page 469 of 553 respectively of SCT1959TCCPart1.pdf")	19.1 The output of the KWh meter shall be transmitted to the central monitoring system through suitable communication system in order to take the meter reading.	Plant central monitoring system / DDCMIS is far away from Integrated Talabira Township. Bidder understands that energy meter shall not be interfaced with central monitoring system / DDCMIS. Please confirm, Bidder's understanding.	Monitoring system for energy metering for Township area shall be as per specification. Also refer the terminal point for scope.
32.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), In Part-II (Technical), Chapter V, External Electrification Works Under Clause 19.0: Energy Management System	19.7.6 Any software/Interface or any other system which is not covered in our specification shall also be supplied with the system for the complete functioning of the system. Software shall be supplied in CD also.	Relevant software/interface for system requirement will be provided. Please confirm your acceptance.	Bidder shall provide Software/interface/ any other system which is not covered in specification but required for complete functioning of the Energy Management System. Software shall be supplied in CD also.

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Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
	Sub-Clause 19.7.6 Pg :233 of 280. (Page 474 of 553 respectively of SCT1959TCCPart1.pdf)			
33.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), In Part-II (Technical), Chapter IV, Internal Electrification works Internal Electrification works, Part-1, Technical Specification, Clause No. 1.3, (e) Pg :94 of 280. (Page 335 of 553 respectively of SCT1959TCCPart1.pdf)	e. For non-Residential buildings, as far as possible, Dbs shall be separate for light and power. Only MCCB/MCB type DBs shall be used. Kitkat fuse, glass fuse, Re-wirable type fuses shall not be used.	For Residential buildings and Non-Residential buildings like Clubhouse, Badminton court, Swimming pool, Library, Guest House, Executive Hostel, TA Office, etc., Lighting and Small power circuits shall be fed from same DBs. Please Confirm. For other Non-Residential buildings, like Auditorium, School, Hospital, Shopping complex, Community Hall, Separate DB shall be considered for small power circuit. Please confirm.	Separate distribution board shall be provided for light and power circuits in Residential & Non-Residential building
34.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), In Part-II (Technical), Chapter IV, Internal Electrification works	Separate distribution board shall be provided for light and power circuits in Residential & Non-Residential building and & in AO buildings, as approved by the Engineer		

Corrigendum 4 dated June 03, 2021 to Tender Specification BHEL PSSR SCT 1959

Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
	Internal Electrification works, Part-3, Distribution Board, Clause No. 3.0 c) Pg :110 of 280. (Page 351 of 553 respectively of SCT1959TCCPart1.pdf")			
35.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), In Part-II (Technical), Chapter IV, Internal Electrification works	Auditorium	General Lighting for Auditorium will be provided, please clarify on the scope for Stage Lighting/Specialised lighting.	Complete illumination for Auditorium area including stage lighting is in bidder scope only.
36.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), In Part-II (Technical), Chapter IV, Internal Electrification works	Shopping Complex	Incoming for the individual shops shall be provided and internal electrification for shops including Food court, etc., is out of Bidder's scope. Please confirm.	Complete internal electrification is in bidders scope.

Corrigendum 4 dated June 03, 2021 to Tender Specification BHEL PSSR SCT 1959

Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
37.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), In Part-II (Technical), Chapter III-Integrated Talabira Township Under Clause 6-Miscellaneous Buildings/Structures, Sub-Clause 6.6: Park, Playground and statue Clause No. 6.6 Page No. 90/280 (Page 331 of 553 respectively of SCT1959TCCPart1.pdf)	Playground with Audience gallery	We presume that Audience gallery is an open galley and hence Lighting is not envisaged. Service building of the Play ground area will be provided with Lighting and small power. PI share the Reference Drawings for the same.	Lighting shall be as per specification. Bidder to develop the layout for playground and audience gallery (closed or open) with all amenities. Bidder to quote accordingly.
38.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), In Part-II (Technical), Chapter V, External Electrification works Clause No. 3.00.08 Page No. 130 of 280 (Page 371 of 553 respectively of SCT1959TCCPart1.pdf)	Supply, Erection, Testing and commissioning for four number 250kVA DG set for Hospital, Guest House, Community Hall & Shopping Complex Township.	AC Emergency Lighting for the mentioned buildings shall be provided with 20% of Normal Lighting Quantity. AC Emergency Lightings for other buildings not considered. Please confirm.	Minimum 4 number 250kVA Diesel Generator sets along with acoustic enclosure of stationary type suitable for outdoor installation to be provided including Mandatory spare parts and maintenance equipments as required. The no.of DG sets mentioned is the minimum exclusive requirements. The exact no. shall be designed as per site load requirements including Hospital, Guest House, Community Hall, Auditorium, Shopping Complex & Quarters etc., and got purchaser's approval during detailed engineering.

Corrigendum 4 dated June 03, 2021 to Tender Specification BHEL PSSR SCT 1959

Sl. No.	Reference Clause No.	Existing Provision	Bidder Query	BHEL reply
				AC Emergency Lighting shall be provided with 20% of Normal Lighting Quantity.
39.	Volume- IA Book I Technical Conditions of Contract: Part- II, Chapter-2 In Tender Specification for Infrastructure Works (Section A) of NLC India Limited), In Part-II (Technical), Chapter V, External Electrification works Clause No. 5.12.00 Page No. 137 of 280 (Page 378 of 553 respectively of SCT1959TCCPart1.pdf")	6.0 DC lighting shall be provided in the Control room for Emergency as per specification.....	DC Lighting is not envisaged for Township, as there is no Control room. Please Confirm.	Confirmed.

Enclosures to this Corrigendum:

Enclosure-1: Corrigendum/Corrigenda published by the customer (59 pages) relevant to the technical specifications in Part-II of Volume IA, Technical Conditions of Contract

Enclosure-2: List of Approved Makes (07 pages)

Enclosure-3: Contour Drawing (AutoCAD File)

Enclosure-4: Extract of specification (02 pages) relevant to clarification provided at Sl. 19 in the Corrigendum

Enclosure-5: Detailed specification for solar roof top PV plant and other related details (34 pages)

ALL OTHER CONDITIONS REMAIN UNCHANGED.

BIDDERS ARE REQUESTED TO CONSIDER THIS CORRIGENDUM AS PART OF TENDER SPECIFICATION AND QUOTE ACCORDINGLY.

-Sd-
(Asha Alex)
SDGM/SCT

Enclosure 1 to Corrigendum 4 dated June 03, 2021
to Tender Specification BHEL PSSR SCT 1959

**CORRIGENDUM/CORRIGENDA PUBLISHED BY THE CUSTOMER
(59 PAGES), RELEVANT TO THE TECHNICAL SPECIFICATIONS IN
PART-II OF VOLUME IA TECHNICAL CONDITIONS OF CONTRACT**



एनएलसी इंडिया लिमिटेड
(पूर्व में नेयवेली लिग्नाइट कार्पोरेशन लिमिटेड)
भारत सरकार का "नवरात्र" उद्यम
NLC INDIA LIMITED
(formerly Neyveli Lignite Corporation Limited)
(‘Navratna’ – A Government of India Enterprise)

महाप्रबंधक / संविदा का कार्यालय
OFFICE OF THE GENERAL MANAGER / CONTRACTS

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तमिलनाडु, भारत / Tamil Nadu, India
CIN:L93090TN1956GO1003507

CORRIGENDUM No. – 15, Dt: 12.05.2021

Sub: NLCIL - Tender for "Infrastructure Work and Single Package EPC for 3x800 MW NLC Talabira Thermal Power Project (NTTPP) near Kumbhari & Tareikela villages in Jharsuguda District, Odisha, through International Competitive Bidding" – Time extension for bid submission, Reply to certain Pre-Bid Queries and Certain modification/amendment to tender document
- Corrigendum No -15 – Reg.

- Ref: 1. Tender No. CO CONTS/0015K/ NTTPP/ EPC/e-conts/2020, dt.18.11.2020
2. Corrigendum-1 Dt: 01.12.2020
3. Corrigendum-2 Dt: 08.12.2020
4. Corrigendum-3 Dt: 18.12.2020
5. Corrigendum-4 Dt: 05.01.2021
6. Corrigendum-5 Dt: 08.01.2021
7. Corrigendum-6 Dt: 18.01.2021
8. Corrigendum-7 Dt: 04.02.2021
9. Corrigendum-8 Dt: 05.03.2021
10. Corrigendum-9 Dt: 06.03.2021
11. Corrigendum-10 Dt: 20.03.2021
12. Corrigendum-11 Dt: 27.03.2021
13. Corrigendum-12 Dt: 15.04.2021
14. Corrigendum-13 Dt: 19.04.2021
15. Corrigendum-14 Dt: 23.04.2021

1.0 Date and time for Bid Submission and Bid Opening are modified as below:

Description	Existing	Modified as
Date of Tender Document available to bidders to download	19.11.2020 to 14.05.2021	19.11.2020 to 25.06.2021
Last date for Registration by Remitting Tender fee	Upto 17.00 hrs (IST) on 14.05.2021	Upto 17.00 hrs (IST) on 25.06.2021
Last Date & Time for submission of Physical Cover	Upto 14.30 hrs (IST) on 15.05.2021	Upto 14.30 hrs (IST) on 26.06.2021
Date of Closing for submission of Online Bid (i.e Part-I & Part- II)	Upto 14.30 hrs (IST) on 15.05.2021	Upto 14.30 hrs (IST) on 26.06.2021
Date & Time of opening of Part-I and Physical Cover	at 15.00 hrs (IST) on 15.05.2021	at 15.00 hrs (IST) on 26.06.2021

2.0 Further, reply to certain queries raised by the bidders after pre-bid meeting and Certain modification/amendment to tender document is enclosed as **ANNEXURE**.

3.0 Bidders are requested to note that the Clarification furnished to each bidder is applicable to all the bidders

4.0 Request for further Extension of time for Bid submission will not be entertained.

5.0 All other terms & conditions of the above tender shall remain unaltered.

Note: Bidders are requested to visit NLCIL Website (www.nlcindia.in)/ e-contracts portal (econts.nlcindia.in)/ CPP Portal (www.eprocure.gov.in) till the opening of Tender to know about latest clarification / Corrigendum, if any issued by NLCIL.


12/05/21
GENERAL MANAGER/CONTRACTS

ANNEXURE

CORRIGENDUM to SECTION-A - INFRASTRUCTURE WORKS

Name of Work:	Single EPC package of NLC Talabira Thermal Power Project in two Sections for 3x800 MW NLC Talabira Thermal Power Project(hereinafter referred to as NTTPP) near Kumbhari & Tareikela villages in Jhasurguda District, Odisha
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SALIENT FEATURES OF CORRIGENDUM IN SECTION-A

- 1) *Peripheral fencing has been:*
 - a. *Removed from 250 m boundary*
 - b. *Provided in northern side around Jal Bhandaran land, Forest land and CISF Complex**Hence, peripheral fencing length has been modified from 11.75 km to 9 kms. Number of check posts with security portacabins updated and updated Annexure Drg No. B1 (R3) attached.*
- 2) *Two lane truck road has been provided at 20 m from compound wall, instead of 50 m at Northern side.*
- 3) *Peripheral single lane village road has been removed totally. Accordingly, Drg No. B23, Sheet 1 and relevant specification deleted.*
- 4) *In site grading, Greenbelt LHS and Greenbelt RHS zone has been renamed as Utility area LHS (65 m from compound wall) and Utility area RHS (75 m from compound wall) respectively. Utility area also covers truck lay bay area, CISF Complex and ITI.*
- 5) *Skill development centre or ITI or Industrial training centre located earlier in Integrated Talabira Township has been relocated to southern side of CISF Colony near power plant area.*
- 6) *Site grading is added in*
 - a. *Truck lay bay area ($\approx$ 5 acres) at +199.00 on western side of power plant.*
 - b. *ITI Area located on southern side of CISF Colony +201.00*

CORRIGENDUM to SECTION-A - INFRASTRUCTURE WORKS

Name of Work:	Single EPC package of NLC Talabira Thermal Power Project in two Sections for 3x800 MW NLC Talabira Thermal Power Project(hereinafter referred to as NTTPP) near Kumbhari & Tareikela villages in Jhasurguda District, Odisha
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The following changes (deletions/additions/modifications) may please be noted by the Bidders regarding

INFRASTRUCTURE WORKS-SECTION A

SI No.	REFERENCE	AS PER TENDER DOCUMENT AND REVISED IN CORRIGENDUMS	TO BE READ AS
1	Cl.2.0.0, Brief Scope of Work Cl.2.1.0-Section –A: INFRASTRUCTURE WORKS, DOCUMENT 1 From Page 3 of 574 to page 8 of 574 Corrigendum 3 dtd 18-12-2020, SI No. 1 Corrigendum 6 dtd 18-01-2021 SI No. 1 & TENDER DOCUMENT Volume IB PART II – TECHNICAL CHAPTER I – GENERAL 2.0 SCOPE OF WORK, DOCUMENT 2 Page 14 & 15 of 280	 <u>A. THERMAL POWER PLANT AREA:</u> 1. Site grading of power plant & green belt area 2. Laying of Main Approach road to power plant 3. Construction of Compound wall around plant area 4. Laying of Peripheral fencing, peripheral single lane road (outside fencing) and two lane road. 5. Formation of Embankment on either side of Bhedan river along with slope protection and toe drains as per recommendation of area-drainage study 6. Providing Construction water supply 7. Design & Construction of Thermal Project office building (G+1) 8. Design & Construction of Miscellaneous Non plant buildings a) Gate complex along with security and	 <u>A. THERMAL POWER PLANT AREA:</u> 1. Site grading of power plant & utility area 2. Laying of Main Approach road to power plant 3. Construction of Compound wall around plant area 4. Laying of Peripheral fencing and two lane road. 5. Formation of Embankment on either side of Bhedan river along with slope protection and toe drains as per recommendation of area-drainage study 6. Providing Construction water supply 7. Design & Construction of Thermal Project office building (G+1) 8. Design & Construction of Skill development center/ITI. 9. Design & Construction of Miscellaneous Non plant buildings

CORRIGENDUM to SECTION-A - INFRASTRUCTURE WORKS

Name of Work:	Single EPC package of NLC Talabira Thermal Power Project in two Sections for 3x800 MW NLC Talabira Thermal Power Project(hereinafter referred to as NTTPP) near Kumbhari & Tareikela villages in Jhasurguda District, Odisha
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	Corrigendum 3 dtd 18-12-2020, Sl No. 3, From Page 5 of 40 to page 6 of 40 Corrigendum 6 dtd 18-01-2021 Sl No. 1, From Page 5 of 46 to page 7 of 46	time office, Other gates and security cabins b) Parking lot c) Watch tower d) CISF – Barracks (G+2), Armory and quarter guard, Canteen, security check post and toilet block. <u>B. INTEGRATED TALABIRA TOWNSHIP</u> 1. Preliminary works such as : a) Topographical survey of Township area b) Site levelling & grading of township area c) Geotechnical investigation of Township area d) Establishing construction water supply 2. Design, engineering and construction of following buildings including internal electrification, fire safety, water supply, drainage & sewage arrangements within Township area: 	a) Gate complex along with security and time office, Other gates and security cabins b) Parking lot c) Watch tower d) CISF – Barracks (G+2), Armory and quarter guard, Canteen, security check post and toilet block. <u>B. INTEGRATED TALABIRA TOWNSHIP</u> 1. Preliminary works such as : a) Topographical survey of Township area b) Site levelling & grading of township area c) Geotechnical investigation of Township area d) Establishing construction water supply 2. Design, engineering and construction of following buildings including internal electrification, fire safety, water supply, drainage & sewage arrangements within Township area:
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CORRIGENDUM to SECTION-A - INFRASTRUCTURE WORKS

Name of Work:	Single EPC package of NLC Talabira Thermal Power Project in two Sections for 3x800 MW NLC Talabira Thermal Power Project(hereinafter referred to as NTTPP) near Kumbhari & Tareikela villages in Jhasurguda District, Odisha
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		 a) Project head (PH) quarters – 3 Nos. t) VIP Guest House – G+1 with lift u) Industrial training Centre C. EXTERNAL ELECTRICAL WORKS: Design, engineering, manufacture, inspection, testing at manufacturer's work, packing, assembling, and forwarding to site, transportation, unloading, storage at site, erection, painting, civil and structural works, insurance, supervision, testing, obtaining statutory approvals and 1. Commissioning of 33kV Double Circuit Transmission line across the Bhedan River to Thermal Project Site. 2. Commissioning of 2x6.3 MVA, 33kV/11kV Substation. 3. Providing all related Civil Works for External Electrical Works <u>THERMAL POWER PLANT AREA:</u> 1. Providing Distribution Transformer & LT Switchgear for Thermal Project office building.	 a) Project head (PH) quarters – 3 Nos. t) VIP Guest House – G+1 with lift C. EXTERNAL ELECTRICAL WORKS: Design, engineering, manufacture, inspection, testing at manufacturer's work, packing, assembling, and forwarding to site, transportation, unloading, storage at site, erection, painting, civil and structural works, insurance, supervision, testing, obtaining statutory approvals and 1. Commissioning of 33kV Double Circuit Transmission line across the Bhedan River to Thermal Project Site. 2. Commissioning of 2x6.3 MVA, 33kV/11kV Substation. 3. Providing all related Civil Works for External Electrical Works <u>THERMAL POWER PLANT AREA:</u> 1. Providing Distribution Transformer & LT Switchgear for Thermal Project office building.
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CORRIGENDUM to SECTION-A - INFRASTRUCTURE WORKS

Name of Work:	Single EPC package of NLC Talabira Thermal Power Project in two Sections for 3x800 MW NLC Talabira Thermal Power Project(hereinafter referred to as NTTPP) near Kumbhari & Tareikela villages in Jhasurguda District, Odisha
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		2. Providing LT Power supply for Miscellaneous Non Plant Buildings. a) Gate complex along with security and time office & other gates. b) Parking lot. c) Watch tower. d) CISF Barracks, Armoury and quarter guard, Canteen, security check post and toilet block. e) Providing Street lighting for Main Approach road to power plant Main Gate Complex. f) Providing Street lighting for Peripheral SINGLE LANE Road (Outside Fencing). g) Providing Street lighting for Peripheral TWO LANE ROAD. <u>INTEGRATED TALABIRA TOWNSHIP</u> 1. 11kV Double Circuit Transmission line across the Bhedan River from Substation to Integrated Talabira Township. 2. Providing 11kV Ring Main Distribution Network& Interconnecting Field RMUs inside Integrated Talabira Township. 3. Providing 11kV/415V Transformers, LT Distribution Network, Street lighting and	2. Providing LT Power supply for Miscellaneous Non Plant Buildings. a) Gate complex along with security and time office & other gates. b) Parking lot. c) Watch tower. d) CISF Barracks, Armoury and quarter guard, Canteen, security check post and toilet block. e) Skill development center/ITI. f) Providing Street lighting for Main Approach road to power plant Main Gate Complex. g) Providing Street lighting for Peripheral TWO LANE ROAD. h) Providing Street lighting for inspection road on flood protection bund. i) Providing Street/High Mast lighting for Truck Lay bay. <u>INTEGRATED TALABIRA TOWNSHIP</u> 1. 11kV Double Circuit Transmission line across the Bhedan River from Substation to Integrated Talabira Township. 2. Providing 11kV Ring Main Distribution Network& Interconnecting Field RMUs inside Integrated Talabira Township. 3. Providing 11kV/415V Transformers, LT
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CORRIGENDUM to SECTION-A - INFRASTRUCTURE WORKS

Name of Work:	Single EPC package of NLC Talabira Thermal Power Project in two Sections for 3x800 MW NLC Talabira Thermal Power Project(hereinafter referred to as NTTPP) near Kumbhari & Tareikela villages in Jhasurguda District, Odisha
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		external electrification for Residential / Non Residential buildings within Integrated Talabira Township like: a) Project head (PH) quarters, Type IV, III, II & I Quarters. b) Executive hostel, Shopping complex & Guest house. c) Recreation club, Sports office, badminton court, swimming pool and Library. d) Auditorium, Community hall, Hospital & School. e) Township administration (TA) office & Estate store. f) Two wheeler & Four wheeler parking shed. g) Security building & Servant's quarters for PH. h) VIP Guest House. i) Water supply distribution network within township. j) Storm water drainage network within township. k) Sewage network with STP within township. l) Park and playground.	Distribution Network, Street lighting and external electrification for Residential / Non Residential buildings within Integrated Talabira Township like: a) Project head (PH) quarters, Type IV, III, II & I Quarters. b) Executive hostel, Shopping complex & Guest house. c) Recreation club, Sports office, badminton court, swimming pool and Library. d) Auditorium, Community hall, Hospital & School. e) Township administration (TA) office & Estate store. f) Two wheeler & Four wheeler parking shed. g) Security building & Servant's quarters for PH. h) VIP Guest House. i) Water supply distribution network within township. j) Storm water drainage network within township. k) Sewage network with STP within township. l) Park and playground. m) Gardening & walkway inside Type I, II, III &
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CORRIGENDUM to SECTION-A - INFRASTRUCTURE WORKS

Name of Work:	Single EPC package of NLC Talabira Thermal Power Project in two Sections for 3x800 MW NLC Talabira Thermal Power Project(hereinafter referred to as NTTPP) near Kumbhari & Tareikela villages in Jhasurguda District, Odisha
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		m) Gardening & walkway inside Type I, II, III & IV Blocks area. n) Single lane internal road & 4 lane internal main road within Integrated Talabira Township. o) Industrial training Centre.	IV Blocks area. n) Single lane internal road & 4 lane internal main road within Integrated Talabira Township.																																													
2	<u>TENDER DOCUMENT</u> Volume IB (Section A) – Infrastructure works Part II (Technical) Chapter II (Thermal power plant area) Cl. 1. SITE GRADING OF POWER PLANT & UTILITY AREA Document 2, Page 35 and 36 of 280 <u>CORRIGENDUM</u> Corrigendum 3 dtd 18-12-2020, Sl No. 4 Page 10 of 40	1. SITE GRADING OF POWER PLANT & GREEN BELT AREA 1.1 GENERAL ✓ Site grading work involves cutting and filling entire power plant area & green belt area to following finished levels: <table><tr><th>Sl. No.</th><th>Zone</th><th>Finished Ground level (FGL)</th></tr><tr><td>1</td><td>Main plant area</td><td>+202.50</td></tr><tr><td>2</td><td>Coal handling area</td><td>+202.50</td></tr><tr><td>3</td><td>Cooling tower area</td><td>+202.00</td></tr><tr><td>4</td><td>Greenbelt area (LHS) (Partially)</td><td>+201.00</td></tr><tr><td>5</td><td>Greenbelt area (RHS) (Partially)</td><td>+201.00</td></tr></table> ✓ Micro levelling shall be carried out in CISF complex area. Terrace level for CISF complex	Sl. No.	Zone	Finished Ground level (FGL)	1	Main plant area	+202.50	2	Coal handling area	+202.50	3	Cooling tower area	+202.00	4	Greenbelt area (LHS) (Partially)	+201.00	5	Greenbelt area (RHS) (Partially)	+201.00	1. SITE GRADING OF POWER PLANT & UTILITY AREA 1.1 GENERAL ✓ Site grading work involves cutting and filling entire power plant area & utility area to following finished levels: <table><tr><th>Sl. No.</th><th>Zone</th><th>Finished Ground level (FGL)</th></tr><tr><td>1</td><td>Main plant area</td><td>+202.50</td></tr><tr><td>2</td><td>Coal handling area</td><td>+202.50</td></tr><tr><td>3</td><td>Cooling tower area</td><td>+202.00</td></tr><tr><td>4</td><td colspan="2">Utility area :</td></tr><tr><td>a)</td><td>Utility area (LHS)</td><td>+201.00</td></tr><tr><td>b)</td><td>Utility area (RHS)</td><td>+201.00</td></tr><tr><td>c)</td><td>CISF Complex & ITI Area</td><td>+201.00</td></tr><tr><td>d)</td><td>Truck lay bay area</td><td>+199.00</td></tr></table> 	Sl. No.	Zone	Finished Ground level (FGL)	1	Main plant area	+202.50	2	Coal handling area	+202.50	3	Cooling tower area	+202.00	4	Utility area :		a)	Utility area (LHS)	+201.00	b)	Utility area (RHS)	+201.00	c)	CISF Complex & ITI Area	+201.00	d)	Truck lay bay area	+199.00
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CORRIGENDUM to SECTION-A - INFRASTRUCTURE WORKS

Name of Work:	Single EPC package of NLC Talabira Thermal Power Project in two Sections for 3x800 MW NLC Talabira Thermal Power Project(hereinafter referred to as NTTPP) near Kumbhari & Tareikela villages in Jhasurguda District, Odisha
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	Corrigendum 6 dtd 18-01-2021 SI No. 2	shall be fixed by EPC with approval of NLCIL. ✓ Work can be planned in phased manner to cover grading of main plant area in first phase and greenbelt in second phase, considering overall project timeline. ✓ Levels have been finalized keeping in view the Highest Flood Level (HFL) of Bhedan River and Area drainage study recommendations (Area drainage study for the power plant conducted by National Institute of Hydrology, Roorkee). ✓ Contractor shall work out grading requirements from the existing ground level to finished level as mentioned in site grading layout (Refer Annexure B1 (R2)). 	 ✓ Work can be planned in phased manner to cover grading of main plant area in first phase and utility areas in second phase, considering overall project timeline. ✓ Levels have been finalized keeping in view the Highest Flood Level (HFL) of Bhedan River and Area drainage study recommendations (Area drainage study for the power plant conducted by National Institute of Hydrology, Roorkee). ✓ Contractor shall work out grading requirements from the existing ground level to finished level as mentioned in site grading layout (Refer Annexure B1 (R3)).
3	<u>TENDER DOCUMENT</u> Volume IB (Section A) – Infrastructure works Part II (Technical) Chapter II (Thermal power	 ✓ Necessary embankment shall be formed for laying approach road from proposed new bridge across Bhedan river to Greenbelt grading zone. Greenbelt area site grading shall be done as per site grading layout	 ✓ Necessary embankment shall be formed for laying approach road from proposed new bridge across Bhedan river to Utility area grading zone. Utility area site grading shall be done as per site grading layout drawing

CORRIGENDUM to SECTION-A - INFRASTRUCTURE WORKS

Name of Work:	Single EPC package of NLC Talabira Thermal Power Project in two Sections for 3x800 MW NLC Talabira Thermal Power Project(hereinafter referred to as NTTPP) near Kumbhari & Tareikela villages in Jhasurguda District, Odisha
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	plant area) 2. APPROACH ROAD TO POWER PLANT DOCUMENT 2 Page 41 of 280 <u>CORRIGENDUM</u> Corrigendum 3 dtd 18-12-2020, Section A - SI No. 5 Corrigendum 6 dtd 18-01-2021 SI No. 3	drawing (Annexure Drg No. B1, R2) ✓ Minimum top width of this embankment shall be 50 m. Top of embankment shall be at Minimum +201.00 m level. However, it is EPC Scope to ensure smooth transition between Bridge and approach road. ✓ Necessary Right of Way (ROW) and approval for laying approach road wherever required shall be obtained by contractor from various government departments. Similarly, for connecting approach road to State Highway, approval shall be obtained from respective state govt. department for SH-approach road junction details. ✓ Payment of necessary license fee only to the state/Central Govt. authority for obtaining statutory approval will be borne by the owner. However facilitation for obtaining statutory approval is in the scope of successful bidder.	(Annexure Drg No. B1, R3) ✓ Minimum top width of this embankment shall be 50 m. Top of embankment shall be at Minimum +201.00 m level. However, it is EPC Scope to ensure smooth transition between Bridge and approach road. ✓ For connecting approach road to State Highway, approval shall be obtained from respective state govt. department for SH-approach road junction details. ✓ Payment of necessary license fee only to the state/Central Govt. authority for obtaining statutory approval will be borne by the owner. However facilitation for obtaining statutory approval is in the scope of successful bidder.
4	<u>TENDER DOCUMENT</u> Volume IB (Section A) – Infrastructure works	4. PERIPHERAL FENCING AND PERIPHERAL ROAD 4.1.PERIPHERAL FENCING ✓ Peripheral fencing shall be provided for a	4. PERIPHERAL FENCING AND TWO LANE ROAD 4.1.PERIPHERAL FENCING ✓ Peripheral fencing shall be provided for a

CORRIGENDUM to SECTION-A - INFRASTRUCTURE WORKS

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	Part II (Technical) Chapter II (Thermal power plant area) PERIPHERAL FENCING AROUND ACQUIRED LAND BOUNDARY AND PERIPHERAL INSPECTION ROAD DOCUMENT 2 Page 43 & 44 of 280 <u>CORRIGENDUM</u> Corrigendum 3 dtd 18-12-2020, Section A - Sl No. 6 Corrigendum 6 dtd 18-01-2021, Section A - Sl No. 4	total length of approx. 11.75 kms : - o Around the acquired land boundary (i.e., Outside greenbelt area) on NGL/FGL as per latest plot plan and site grading layout [Annexure B1 (R1)] - Approx. 7.25 kms length - o Around forest land where plant compound wall is not available on NGL as per latest plot plan and site grading layout [Annexure B1 (R1)] along with gate – Approx. 3 kms length - o Around CISF Complex along with gate – Approx. 1.5 kms length 4.2.PERIPHERAL SINGLE LANE ROAD 4.3.TWO LANE ROAD ✓ Two lane road covering a length of 6 km (approx.) shall be provided for truck movement on +201.00 m level as per latest plot plan and site grading layout [Annexure B1 (R2)]. 	total length of approx. 9.0 kms : - o Southern side of Jal Bhandaran land – Approx. 2.80 kms - o Around forest land where plant compound wall is not available on NGL as per latest plot plan and site grading layout [Annexure B1 (R3)] along with gate – Approx. 4.10 kms length - o Around CISF Complex and ITI along with gate – Approx. 1.60 kms - o Southern side of approach road near existing bridge – Approx. 0.50 kms 4.2.DELETED 4.3.TWO LANE ROAD ✓ Two lane road covering a length of 6 km (approx.) shall be provided for truck movement on +201.00 m level as per latest plot plan and site grading layout [Annexure B1 (R3)].
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5	<u>TENDER DOCUMENT</u> Volume IB (Section A) – Infrastructure works Part II (Technical) Chapter II (Thermal power plant area) <i>New clause added</i>	---	8.5 SKILL DEVELOPMENT CENTRE/ITI ✓ Industrial training center/Skill development center/ITI shall have minimum facilities listed below : ○ Administrative block ○ Classrooms including simulator room ○ Workshops ○ Canteen ✓ Skill development center/ITI shall be located to the southern side of CISF Colony in power plant area as shown in Annexure Drg No. B1 (R3) ✓ The Industrial training center shall be RCC framed structure. ✓ Provision for cable trenches in Simulator room shall be made with chequered plate covering with rubber carpet. ✓ Industrial training center shall be provided with compound wall of height 1.8m with separate entrance for public access. ✓ Parking shed with sufficient space for parking 4 Cars and 60 two wheelers shall be provided. For preliminary architectural drawing, Refer Annexure Drg no. C29, Sheet 1 to 5
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6	Volume IB – PART II – TECHNICAL CHAPTER III (INTEGRATED TALABIRA TOWNSHIP) 5. Non-Residential buildings DOCUMENT 2 Page 86 of 280 Corrigendum 3 dtd 18-12-2020, Section A - SI No. 10	5.12 Industrial Training Centre ✓ Industrial training center shall have minimum facilities listed below : ○ Administrative block ○ Classrooms including simulator room ○ Workshop ○ Canteen ✓ The Industrial training center shall be RCC framed structure. 	5.12 DELETED
7	<u>TENDER DOCUMENT</u> Volume IB – PART II – TECHNICAL CHAPTER VI (DRAWINGS) DOCUMENT 2 Page 282 of 665 <u>CORRIGENDUM</u> Corrigendum 3 dtd 18-12-2020,		<u>Following drawings are updated and enclosed:</u> B1 – Site grading layout (R3) C1 – Integrated Talabira township layout (R2) <u>Following drawing is deleted :</u> B23, Sheet 1 – Peripheral single lane road cross section

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	Section A - SI No. 17 Corrigendum 6 dtd 18-01-2021, Section A - SI No. 7		
8	<u>TENDER DOCUMENT</u> Volume IA – SCHEDULE F1 – TABLE 1 & TABLE 1.1 DOCUMENT 1 Page 396, 403 to 408 of 665 <u>Corrigendum 3</u> dtd 18-12-2020, Section A - SI No. 19 Page No.: 01 of 13 to 13 of 13 <u>Corrigendum 6</u> dtd 18-01-2020, Section A - SI No. 8 Page No.: 28 of 46 to 47 of 46	(PRICE SCHEDULE)	<i>Modified and enclosed.</i>

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REVISED PRICE SCHEDULE

VOLUME: I-A

SCHEDULE: F1

TABLE-1 for SECTION-A

**SUMMARY OF PRICE SCHEDULE FOR INFRA STRUCTURE WORKS
(TO BE FILLED IN THE ONLINE PORTAL)**

SL. NO.	DESCRIPTION	PRICE IN INR
1.0	LUMPSUM PRICE FOR ENTIRE SCOPE OF WORK OF THERMAL POWER PLANT AREA AS PER THE TECHNICAL SPECIFICATIONS AND DRAWINGS (INCLUDING CORRIGENDUM)	
1.1	GST	
1.2	SUB TOTAL (1.0+1.1)	
2.0	LUMPSUM PRICE FOR ENTIRE SCOPE OF WORK OF INTEGRATED TALABIRA TOWNSHIP AS PER THE TECHNICAL SPECIFICATIONS AND DRAWINGS (INCLUDING CORRIGENDUM)	
2.1	GST	
2.2	SUB TOTAL (2.0 +2.1)	
3.0	LUMPSUM PRICE FOR ENTIRE SCOPE OF WORK OF EXTERNAL ELECTRICAL WORKS AS PER THE TECHNICAL SPECIFICATIONS AND DRAWINGS (INCLUDING CORRIGENDUM)	
3.1	GST	
3.2	SUB TOTAL (3.1+3.2)	
4.0	GRAND TOTAL OF SECTION-A INFRA STRUCTURE WORKS (1.2+2.2+3.2) (Rupees.....only)(In words)	

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Table 1.1 of Section A
PRICE BREAK UP FOR INFRA STRUCTURE WORKS-SECTION-A.

1.0 THERMAL POWER PLANT AREA

SL. NO.	DESCRIPTION	PRICE IN INR
1.1	DESIGN, ENGINEERING AND CONSTRUCTION OF SITE GRADING WORK WITHIN THE POWER PLANT AND UTILITY AREA AS PER TECHNICAL SPECIFICATION INCLUDING SIDE PROTECTION/LINING, TOE WALL, CHUTE, PERIPHERAL DRAINS, STATUTORY APPROVAL (IF REQUIRED) AND NECESSARY APPROVAL FROM IIT ETC., COMPLETE	
1.1.1	PLANT AREA (INCLUDING MAIN PLANT AREA, COAL HANDLING AREA, AND COOLING TOWER AREA)	
1.1.2	UTILITY AREA (INCLUDING UTILITY AREA ON LHS, RHS, CISF COMPLEX, ITI & TRUCK LAY BAY AREA)	
1.1.3	SUB TOTAL(1.1.1+1.1.2)	
1.2	LAYING OF MAIN APPROACH ROAD TO POWER PLANT MAIN GATE COMPLEX AS PER TECHNICAL SPECIFICATION	
1.3	CONSTRUCTION OF COMPOUND WALL AROUND PLANT AREA AS PER TECHNICAL SPECIFICATION	
1.4	PROVIDING FENCING AND TWO LANE ROAD AS PER TECHNICAL SPECIFICATION	
1.4.1	PERIPHERAL FENCING INCLUDING CHECKPOSTS AND PORTABLE SECURITY CABINS	
1.4.2	TWO LANE ROAD	
1.4.3	SUB TOTAL(1.4.1 +1.4.2)	
1.5	DESIGN, ENGINEERING AND FORMATION OF EMBANKMENT ON EITHER SIDE OF BHEDAN RIVER AS PER TECHNICAL SPECIFICATION INCLUDING SLOPE PROTECTION, TOE DRAINS, LAYING OF INSPECTION ROAD, SLUICE GATE MECHANISMS, STATUTORY APPROVAL (IF REQUIRED) AND NECESSARY APPROVAL FROM IIT	

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	ETC., COMPLETE	
1.6	DESIGN & CONSTRUCTION OF THERMAL PROJECT OFFICE BUILDING INCLUDING INTERNAL ELECTRIFICATION (G+1) AND AIR CONDITIONING AS PER TECHNICAL SPECIFICATION	
1.7	DESIGN & CONSTRUCTION OF MISCELLANEOUS NON PLANT BUILDINGS INCLUDING INTERNAL ELECTRIFICATION AS PER TECHNICAL SPECIFICATION	
1.7.1	MAIN GATE COMPLEX (ALONG WITH SECURITY AND TIME OFFICE), OTHER SECURITY BUILDINGS AND GATES	
1.7.2	PARKING LOTS	
1.7.3	WATCH TOWERS	
1.7.4	CISF COMPLEX AS PER TECHNICAL SPECIFICATION INCLUDING BARRACKS, ARMOURY AND QUARTER GUARD, CANTEEN, SECURITY CHECK POST AND TOILET BLOCK ETC., COMPLETE	
1.7.5	SKILL DEVELOPMENT CENTRE/ITI	
1.7.6	SUB TOTAL(1.7.1+ 1.7.2+1.7.3+1.7.4+1.7.5)	
1.8	OTHER WORKS (PLEASE SPECIFY, IF ANY)	
1.9	TOTAL (1.1.3+1.2+1.3+ 1.4.3+1.5+1.6+1.7.6+1.8) (Rupees.....only)(In words)	

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2.0 INTEGRATED TALABIRA TOWNSHIP

2.1	PRELIMINARY WORKS AS PER TECHNICAL SPECIFICATION	
2.1.1	TOPOGRAPHICAL SURVEY OF TOWNSHIP AREA	
2.1.2	SITE GRADING AND LEVELLING OF TOWNSHIP AREA	
2.1.3	GEOTECHNICAL INVESTIGATION OF TOWNSHIP AREA	
2.1.4	SUBTOTAL (2.1.1+2.1.2+2.1.3)	
2.2	DESIGN, ENGINEERING AND CONSTRUCTION OF RESIDENTIAL AND NON RESIDENTIAL BUILDINGS WITHIN TOWNSHIP AREA AS PER TECHNICAL SPECIFICATION INCLUDING STATUTORY APPROVAL, ELECTRICAL WORKS, FIRE SAFETY, WATER SUPPLY, DRAINAGE, SEWAGE ARRANGEMENTS ETC., COMPLETE	
2.2.1	PROJECT HEAD (PH) QUARTERS	
2.2.2	TYPE IV QUARTERS	
2.2.3	TYPE III QUARTERS	
2.2.4	TYPE II QUARTERS	
2.2.5	TYPE I QUARTERS	
2.2.6	EXECUTIVE HOSTELS	

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2.2.7	SHOPPING COMPLEX	
2.2.8	GUEST HOUSE	
2.2.9	RECREATION CLUB, SPORTS OFFICE, BADMINTON COURT, SWIMMING POOL AND LIBRARY	
2.2.10	AUDITORIUM WITH CENTRALIZED AIR CONDITIONING	
2.2.11	COMMUNITY HALL	
2.2.12	HOSPITAL	
2.2.13	SCHOOL	
2.2.14	TOWNSHIP ADMINISTRATION (TA) OFFICE	
2.2.15	ESTATE STORE	
2.2.16	TWO WHEELER PARKING SHED	
2.2.17	FOUR WHEELER PARKING SHED	
2.2.18	SECURITY BUILDING	
2.2.19	SERVANT'S QUARTERS FOR PH	
2.2.20	VIP GUEST HOUSE	
2.2.21	SUBTOTAL (2.2.1 TO 2.2.20)	

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2.3	DESIGN, ENGINEERING AND CONSTRUCTION/DEVELOPMENT/LAYING OF FOLLOWING FACILITIES AS PER TECHNICAL SPECIFICATION INCLUDING STATUTORY APPROVAL (IF ANY) ETC., COMPLETE	
2.3.1	COMPOUND WALL AROUND TOWNSHIP AREA	
2.3.2	ENTRANCE ARCH AT TOWNSHIP AND INDICATIVE ARCH AT SH-10 JUNCTION	
2.3.3	INTERNAL MAIN ROAD WITHIN TOWNSHIP (4 LANE) INCLUDING CULVERTS AS PER TECHNICAL SPECIFICATION	
2.3.4	INTERNAL ROAD WITHIN TOWNSHIP AREA (SINGLE LANE) INCLUDING CULVERTS AS PER TECHNICAL SPECIFICATION	
2.3.5	MAIN DRINKING WATER PIPELINE NETWORK FROM POWER PLANT WTP TO TOWNSHIP	
2.3.6	WATER SUPPLY DISTRIBUTION NETWORK INCLUDING OVERHEAD WATER TANK AND SUMP WITHIN TOWNSHIP	
2.3.7	STORM WATER DRAINAGE NETWORK WITHIN TOWNSHIP	
2.3.8	SEWAGE NETWORK WITH STP WITHIN TOWNSHIP INCLUDING RECYCLING OF TREATED WATER	
2.3.9	RAIN WATER HARVESTING SCHEME	
2.3.10	PARK AND PLAYGROUND	
2.3.11	GARDENING AND WALKWAY INSIDE TYPE I, II, III & IV BLOCKS AREA	

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2.3.12	STATUE/LOGO/BEAUTIFICATION NEAR MAIN ENTRANCE OF TOWNSHIP	
2.3.13	SUBTOTAL (2.3.1 TO 2.3.12)	
2.4	DESIGN, ENGINEERING, MANUFACTURE, INSPECTION AT SUPPLIER'S WORKS, SUPPLY, FABRICATION, INSURANCE, TRANSPORT, STORAGE, ERECTION, TESTING, COMMISSIONING OF ROOF TOP SOLAR OF <u>MINIMUM 900 KW (AC)</u> AS PER SPECIFICATION DETAILED IN SECTION-B (INCLUDING CIVIL, ELECTRICAL AND ALL OTHER RELATED WORKS ETC, COMPLETE) FOR BUILDINGS IN TOWNSHIP AS PER SCOPE OF WORK	
2.5	OTHER WORKS (PLEASE SPECIFY, IF ANY)	
2.6	TOTAL (2.1.4+2.2.21+2.3.13+2.4+2.5)	

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3.0 EXTERNAL ELECTRICAL WORKS:

3.0	EXTERNAL ELECTRICAL WORKS: DESIGN, ENGINEERING, MANUFACTURE, INSPECTION, TESTING AT MANUFACTURER'S WORK, PACKING, ASSEMBLING, AND FORWARDING TO SITE, TRANSPORTATION, UNLOADING, STORAGE AT SITE, ERECTION, PAINTING, CIVIL AND STRUCTURAL WORKS, INSURANCE, SUPERVISION, TESTING, OBTAINING STATUTORY APPROVALS AND COMMISSIONING OF:	
3.1	33KV/11KV SUBSTATION FOR THE INTEGRATED TOWNSHIP AND CONSTRUCTION POWER SUPPLY.	
3.1.1	2X6.3 MVA 33KV/11KV TRANSFORMER, NGR, CAPACITOR BANK, CONTROL ROOM, 33KV & 11KV PANEL BOARD ROOM ETC.,	
3.1.2	2X500KVA, 11/0.415KV STATION TRANSFORMER AND ASSOCIATED SWGR, ACDB, ETC.,	
3.1.3	BATTERY, BATTERY CHARGER & ASSOCIATED DCDB, DC LIGHTING ETC.,	
3.1.4	SCADA & EMS FOR SUBSTATION & CONNECTED LOADS CENTRES.	
3.1.5	EMULSIFIER FIRE PROTECTION SYSTEM FOR SUBSTATION	
3.1.6	1X250KVA DG SET FOR SUBSTATION	
3.1.7	INTERNAL ELECTRIFICATION FOR SUBSTATION BUILDINGS.	
3.1.8	EXTERNAL ELECTRIFICATION FOR SUBSTATION YARD INCLUDING ROAD LIGHTING & LIGHTING MAST.	
3.1.9	OTHER ELECTRICAL EQUIPMENTS & ASSOCIATED POWER FEEDING ARRANGEMENTS.	
3.1.10	SUBTOTAL (3.1.1 + 3.1.2 + 3.1.3 + 3.1.4 + 3.1.5 + 3.1.6 + 3.1.7 + 3.1.8 + 3.1.9)	
3.2	33KV DOUBLE CIRCUIT TRANSMISSION LINE ACROSS THE BHEDAN RIVER TO EXTEND POWER TO SUBSTATION AT THERMAL PROJECT SITE.	
3.3.	PROVIDING POWER SUPPLY FOR THERMAL PROJECT OFFICE BUILDING (ADMINISTRATIVE BUILDING)	
3.3.1	2 X 630 KVA, 11/0.415 KV TRANSFORMER	
3.3.2	LT SWITCHGEAR & ASSOCIATED CABLE INTERCONNECTION BETWEEN TRANSFORMERS, SWGR & PDBS OF OFFICE BUILDING.	
3.3.3	SUBTOTAL (3.3.1 + 3.3.2)	
3.4.	PROVIDING POWER SUPPLY FOR OTHER MISCELLANEOUS NON PLANT BUILDINGS FROM THERMAL PROJECT OFFICE BUILDING LT SWGR.	
3.4.1	MAIN GATE COMPLEX ALONG WITH SECURITY AND TIME OFFICE	
3.4.2	OTHER SECURITY BUILDINGS INCLUDING GATES AS PER SPECIFICATION	

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3.4.3	PARKING LOT	
3.4.4	WATCH TOWER	
3.4.5	CISF – BARRACKS (G+2), ARMOURY AND QUARTER GUARD, CANTEEN, SECURITY CHECK POST AND TOILET BLOCK	
3.4.6	SKILL DEVELOPMENT CENTER/ITI.	
3.4.7	SUBTOTAL (3.4.1 + 3.4.2 + 3.4.3 + 3.4.4+3.4.5+3.4.6)	
3.5.	PROVIDING STREET LIGHTING, LIGHTING MAST INCLUDING LIGHTING PANELS, INTERCONNECTING CABLES TO EXTEND POWER SUPPLY FOR THERMAL PROJECT ROADS FROM NEAREST LT SWGR.	
3.5.1	MAIN APPROACH ROAD TO POWER PLANT MAIN GATE COMPLEX	
3.5.2	TWO LANE ROAD	
3.5.3	INSPECTION ROAD ON FLOOD PROTECTION BUND	
3.5.4	TRUCK LAY BAY	
3.5.5	SUBTOTAL (3.5.1 + 3.5.2+3.5.3+3.5.4)	
3.6	PROVIDING 11KV RING MAIN DISTRIBUTION NETWORK FOR INTEGRATED TALABIRA TOWNSHIP.	
3.6.1	11KV DOUBLE CIRCUIT TRANSMISSION LINE ACROSS THE BHEDAN RIVER FROM SUBSTATION UP TO TOWNSHIP.	
3.6.2	PROVIDING & INTERCONNECTING FIELD RMUS FOR INTEGRATED TALABIRA TOWNSHIP.	
3.6.3	SUBTOTAL (3.6.1 + 3.6.2)	
3.7	PROVIDING LT DISTRIBUTION NETWORK INCLUDING INTERCONNECTING CABLES FROM DTS UP TO PDBS OF TOWNSHIP RBS & NRBS.	
3.7.1	500 KVA, 11/0.415 KV DISTRIBUTION TRANSFORMERS WITH CABLE INTERCONNECTION TO RMUS.	
3.7.2	250KVA DG SET FOR HOSPITAL, GUEST HOUSE, SHOPPING COMPLEX, AUDITORIUM & COMMUNITY HALL	
3.7.3	PROVIDING SINGLE / DOUBLE ARM STREET LIGHTING INCLUDING LIGHTING PANELS, INTERCONNECTING CABLES TO DT YARDS.	
3.7.4	SUBTOTAL (3.7.1 + 3.7.2 + 3.7.3)	
3.8	PROVIDING STREET LIGHTING, LIGHTING MAST INCLUDING LIGHTING PANELS, INTERCONNECTING CABLES TO EXTEND POWER SUPPLY FROM NEAREST LT SWGR FOR MAIN, INTERNAL & APPROACH ROADS OF TOWNSHIP	
3.8.1	INTERNAL MAIN ROAD WITHIN TOWNSHIP	

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3.8.2	INTERNAL ROADS WITHIN TOWNSHIP AREA	
3.8.3	SUBTOTAL (3.8.1+3.8.2)	
3.9	CIVIL WORKS FOR EXTERNAL ELECTRICAL WORKS	
3.10	OTHER WORKS (PLEASE SPECIFY, IF ANY)	
3.11	TOTAL FOR EXTERNAL ELECTRICAL WORKS (3.1.10 + 3.2 + 3.3.3 + 3.4.7 + 3.5.5+3.6.3 + 3.7.4 + 3.8.3+3.9+3.10)	

NOTE: 1. Bidder need to ensure correctness of prices in Table1 and Table1.1 for section-A are same as below:

TABLE-1 for Section A	TABLE-1.1of Section A
1.0	1.9
2.0	2.6
3.0	3.11

2. Price shall be quoted for the entire scope of work as in technical specification.

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Table 1.2 of Section A

UNIT PRICE FOR INFRA STRUCTURE WORKS- SECTION-A.

The Unit Rates of some of the items mentioned below need to be furnished by the bidder. Bidder need to quote these unit rates relevant to the Technical Specification and the lump sum prices quoted in Schedule- F1, Table 1 and price break up quoted in Tables 1.1 of Section A-Infrastructures.

These unit rates shall be used for contract price adjustment on account of quantity variation.

Bidder shall confirm that the unit rates quoted by them below are consistent with the lump sum bid price and they shall furnish all necessary justification to establish the reasonableness of these rates/prices, if required by the Purchaser. However, the bidder may note that the acceptance of their proposal for the subject package shall not mean automatic acceptance of these rates/prices and that these rates/ prices shall be adopted only if their reasonableness has been established by the bidder and accepted by the Purchaser.

Table 1.2.1

SL NO.	ITEM OF WORK	UNIT RATE (INR)
(A) THERMAL POWER PLANT AREA		
1	LAYING OF MAIN APPROACH ROAD TO POWER PLANT MAIN GATE COMPLEX AS PER TECHNICAL SPECIFICATION (FOR TOTAL OF $\approx$ 5.0 KM MENTIONED IN TECHNICAL SPECIFICATION, PRICE QUOTED IN TABLE 1 AND TABLE 1.1)	/ KM
2	PROVIDING TWO LANE ROAD AS PER TECHNICAL SPECIFICATION (FOR TOTAL OF $\approx$ 6.0 KM MENTIONED IN TECHNICAL SPECIFICATION, PRICE QUOTED IN TABLE 1 AND TABLE 1.1)	/ KM
3	CONSTRUCTION OF COMPOUND WALL AROUND PLANT AREA AS PER TECHNICAL SPECIFICATION (FOR TOTAL OF $\approx$ 6.5 KM MENTIONED IN TECHNICAL SPECIFICATION, PRICE QUOTED IN TABLE 1 AND TABLE 1.1)	/ KM
4	PROVIDING PERIPHERAL FENCING AS PER TECHNICAL SPECIFICATION (FOR TOTAL OF $\approx$ 9.0 KM MENTIONED IN TECHNICAL SPECIFICATION, PRICE QUOTED IN TABLE 1 AND TABLE 1.1)	/ KM

Tender Ref No. : CO CONTS/0015K/NTTPP/EPC/e-contrs/2020 dt.18.11.2020

CORRIGENDUM to SECTION-A - INFRASTRUCTURE WORKS

Name of Work:	Single EPC package of NLC Talabira Thermal Power Project in two Sections for 3x800 MW NLC Talabira Thermal Power Project(hereinafter referred to as NTTPP) near Kumbhari & Tareikela villages in Jhasurguda District, Odisha
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(B) INTEGRATED TALABIRA TOWNSHIP		
1	CONSTRUCTION OF COMPOUND WALL AROUND TOWNSHIP AREA AS PER TECHNICAL SPECIFICATION (FOR TOTAL OF $\approx$ 6.5 KM MENTIONED IN TECHNICAL SPECIFICATION, PRICE QUOTED IN TABLE 1 AND TABLE 1.1)	/ KM
2	CONSTRUCTION OF INTERNAL MAIN ROAD WITHIN TOWNSHIP (4 LANE) AS PER TECHNICAL SPECIFICATION (FOR TOTAL OF $\approx$ 2.0 KM MENTIONED IN TECHNICAL SPECIFICATION, PRICE QUOTED IN TABLE 1 AND TABLE 1.1)	/ KM
3	CONSTRUCTION OF INTERNAL ROAD WITHIN TOWNSHIP AREA (SINGLE LANE) AS PER TECHNICAL SPECIFICATION (FOR TOTAL OF $\approx$ 5.0 KM MENTIONED IN TECHNICAL SPECIFICATION, PRICE QUOTED IN TABLE 1 AND TABLE 1.1)	/ KM
4	DESIGN, ENGINEERING AND CONSTRUCTION/DEVELOPMENT/LAYING INCLUDING STATUTORY APPROVAL OF MAIN DRINKING WATER PIPELINE NETWORK FROM POWER PLANT WTP TO TOWNSHIP AS PER TECHNICAL SPECIFICATION (FOR TOTAL OF $\approx$ 8.5 KM MENTIONED IN TECHNICAL SPECIFICATION, PRICE QUOTED IN TABLE 1 AND TABLE 1.1)	/ KM

Tender Ref No. : CO CONTS/0015K/NTTPP/EPC/e-contrs/2020 dt.18.11.2020

CORRIGENDUM to SECTION-A - INFRASTRUCTURE WORKS

Name of Work:	Single EPC package of NLC Talabira Thermal Power Project in two Sections for 3x800 MW NLC Talabira Thermal Power Project(hereinafter referred to as NTTPP) near Kumbhari & Tareikela villages in Jhasurguda District, Odisha
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Table 1.2.2

**SITE GRADING OF POWER PLANT AREA
(COAL HANDLING AREA, MAIN PLANT AREA, & COOLING TOWER AREA)**

Sl No.	Item of work	Unit rate (INR)
1	Earthwork – Cutting in power plant area as per technical specification	/ m ³
2	Earthwork – Filling in power plant area as per technical specification	/ m ³

Note:

The above unit rate for the Cutting/Filling in power plant area shall be used for contract price adjustment on account of variation arising between:

- a) Quantity arrived based upon the Preliminary contour drawing of power plant area given in Section B using Autodesk CIVIL 3D/Kubla Cubed software tool.

AND

- b) Quantity arrived based upon the joint pre-levels taken by NLCIL & Bidder before commencement of site grading work using Autodesk CIVIL 3D/Kubla Cubed software tool.

However, these unit rates will not be applicable for Site grading of Integrated Talabira Township.

Tender Ref No. : CO CONTS/0015K/NTTPP/EPC/e-contrs/2020 dt.18.11.2020

CORRIGENDUM to SECTION-A - INFRASTRUCTURE WORKS

Name of Work:	Single EPC package of NLC Talabira Thermal Power Project in two Sections for 3x800 MW NLC Talabira Thermal Power Project(hereinafter referred to as NTTPP) near Kumbhari & Tareikela villages in Jhasurguda District, Odisha
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Table 1.2.3

**SITE GRADING OF UTILITY AREA
(UTILITY AREA ON LHS, RHS, CISF COMPLEX, ITI & TRUCK LAY BAY AREA)**

Sl No.	Item of work	Unit rate (INR)
1	Earthwork – Cutting in Utility area as per technical specification	/ m ³
2	Earthwork – Filling in Utility area as per technical specification	/ m ³

Note:

The above unit rate for the Cutting/Filling in power plant area shall be used for contract price adjustment on account of variation arising between:

- a) Quantity arrived based upon the Preliminary contour drawing of power plant area given in Section B using Autodesk CIVIL 3D/Kubla Cubed software tool.

AND

- b) Quantity arrived based upon the joint pre-levels taken by NLCIL & Bidder before commencement of site grading work using Autodesk CIVIL 3D/Kubla Cubed software tool.

However, these unit rates will not be applicable for Approach road embankment outside utility area.

Tender Ref No. : CO CONTS/0015K/NTTPP/EPC/e-contrs/2020 dt.18.11.2020

CORRIGENDUM to SECTION-A - INFRASTRUCTURE WORKS

Name of Work:	Single EPC package of NLC Talabira Thermal Power Project in two Sections for 3x800 MW NLC Talabira Thermal Power Project(hereinafter referred to as NTTPP) near Kumbhari & Tareikela villages in Jhasurguda District, Odisha
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Table 1.2.4

FORMATION OF EMBANKMENT ON EITHER SIDE OF BHEDAN RIVER WITH SLOPE PROTECTION AND TOE DRAINS

Sl No.	Item of work	Unit rate (INR)
1	Formation of embankment on either side of Bhedan river (Inclusive of slope protection, toe drains, chute, inspection road, turfing etc., complete as specified in technical specification.)	/ m ³ of earth

Note:

The above unit rate for Formation of embankment on either side of Bhedan river shall be used for contract price adjustment on account of variation arising between:

a) Quantity arrived based upon details furnished in Tender Drg. No.B6-R2

AND

b) Quantity arrived based upon the joint pre-levels taken by NLCIL & Bidder before commencement of work using Autodesk CIVIL 3D/Kubla Cubed software tool.

CORRIGENDUM to SECTION-A - INFRASTRUCTURE WORKS

Name of Work:	Single EPC package of NLC Talabira Thermal Power Project in two Sections for 3x800 MW NLC Talabira Thermal Power Project(hereinafter referred to as NTTPP) near Kumbhari & Tareikela villages in Jhasurguda District, Odisha
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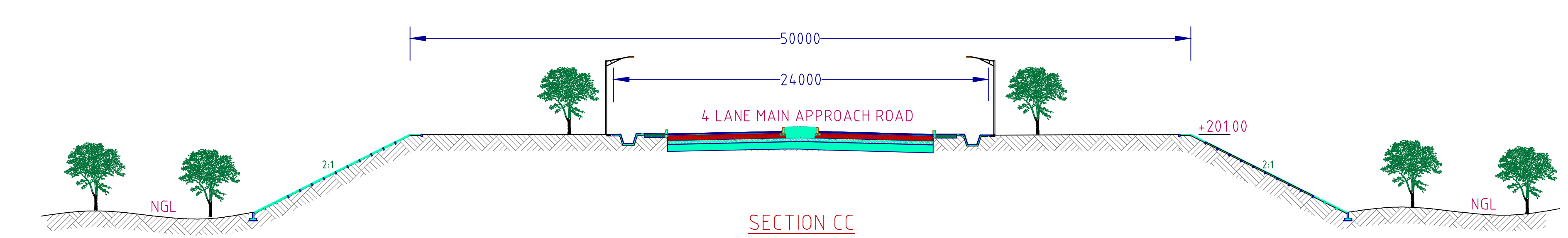
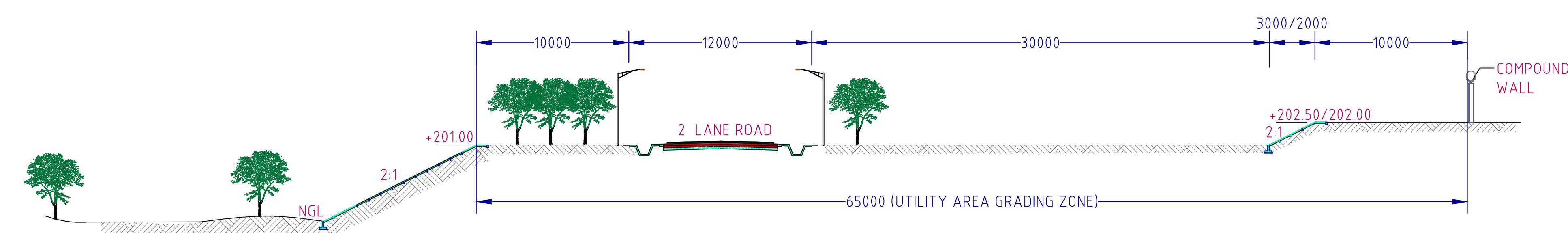
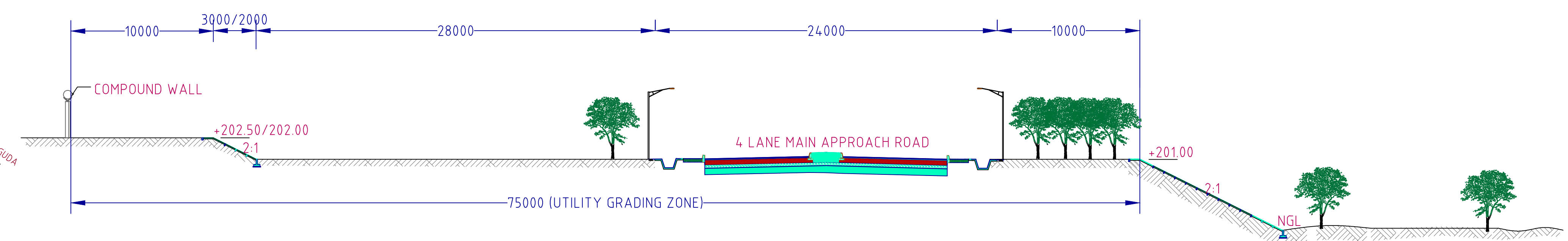
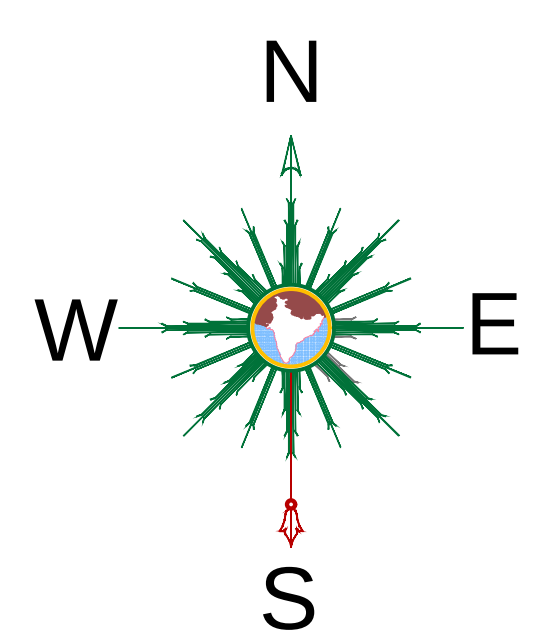
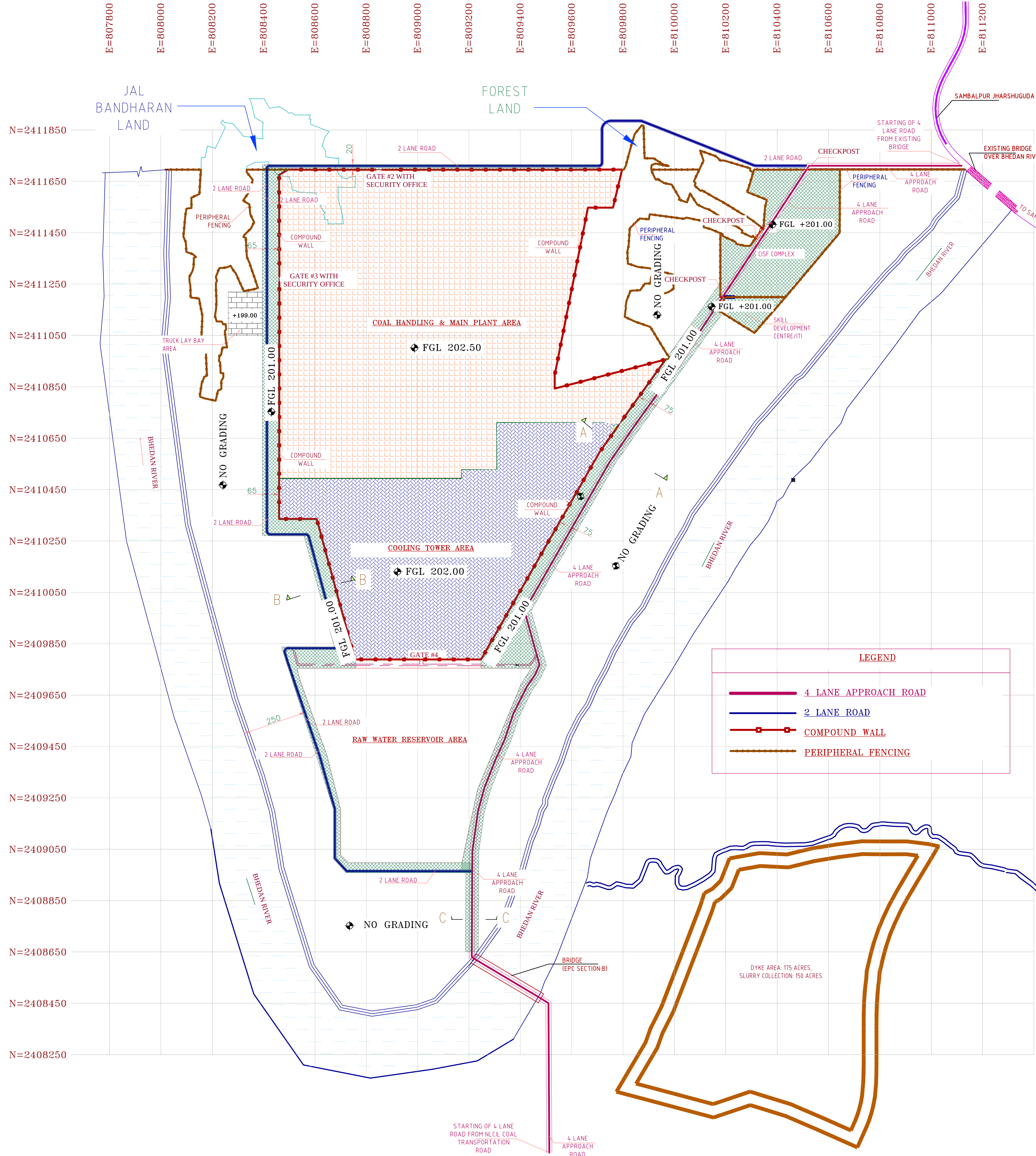
Table 1.2.5
EXTERNAL ELECTRICAL WORKS:

Sl No.	Item of work	Unit rate (INR)
	(A) THERMAL POWER PLANT AREA	
1	Supply, erection, Testing & commissioning of 1x250kVA DG set for Substation including interconnection with designated system obtaining statutory approvals etc., (As per technical specification & price quoted in Table 1 and & Table 1.1 from 3.0 to 3.10)	/ Set
2	Supply, erection, Testing & installation of Road Lighting for Substation yard. (As per technical specification & price quoted in Table 1 and & Table 1.1 from 3.0 to 3.10)	/ Set
3	Supply, erection, Testing & installation of Road Lighting for Main approach road to power plant Main Gate complex, Two Lane Road, Inspection Road on flood protection bund, Truck Lay Bay including interconnecting Cables to extend Power supply from nearest Lighting Panel / LT SWGR. (As per technical specification & price quoted in Table 1 and & Table 1.1 from 3.0 to 3.10)	/ Set
4	Supply, erection, Testing & installation of High Lighting Mast at road Junctions for Main approach road to power plant Main Gate complex, Two Lane Road, Inspection Road on flood protection bund, Truck Lay Bay including interconnecting Cables to extend Power supply from nearest Lighting Panel / LT SWGR. (As per technical specification & price quoted in Table 1 and & Table 1.1 from 3.0 to 3.10)	/ Set
5	Supply, erection, Testing & installation of High Lighting Mast for substation Yard including interconnecting Cables to extend Power supply from nearest Lighting Panel / LT SWGR. (As per technical specification & price quoted in Table 1 and & Table 1.1 from 3.0 to 3.10)	/ Set
	(B) INTEGRATED TALABIRA TOWNSHIP	
1	Supply, erection, Testing & commissioning outdoor type, weather and vermin proof, metal-clad, plinth mounted 3 phase, 12kV, 3 Unit Kiosks with 2 No. load break switches and 1 No. draw out type VCB including interconnection with designated system obtaining statutory approvals etc., (As per technical specification & price quoted in Table 1 and & Table 1.1 from 3.0 to 3.10)	/ Set
2	Supply, erection, Testing & commissioning outdoor type, weather and vermin proof, metal-clad, plinth mounted	/ Set

CORRIGENDUM to SECTION-A - INFRASTRUCTURE WORKS

Name of Work:	Single EPC package of NLC Talabira Thermal Power Project in two Sections for 3x800 MW NLC Talabira Thermal Power Project(hereinafter referred to as NTTPP) near Kumbhari & Tareikela villages in Jhasurguda District, Odisha
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	3 phase, 12kV, 4 Unit Kiosks with 2 No. load break switches and 2 No. draw out type VCBs including interconnection with designated system obtaining statutory approvals etc., (As per technical specification & price quoted in Table 1 and & Table 1.1 from 3.0 to 3.10)	
3	Supply, erection, Testing & commissioning of 1x500kVA, 11/0.415 kV Distribution Transformer for Integrated Talabira Township including interconnection with RMUs, LT Panels of Ring Main Distribution Network system obtaining statutory approvals etc., (As per technical specification & price quoted in Table 1 and & Table 1.1 from 3.0 to 3.10)	/ Set
4	Supply, erection, Testing & commissioning of 1x250kVA DG set for critical locations inside Township boundary including interconnection with designated system obtaining statutory approvals etc., (As per technical specification & price quoted in Table 1 and & Table 1.1 from 3.0 to 3.10)	/ Set
5	Supply, erection, Testing & installation of Single Arm Road Lighting for Internal Main Road & Internal Roads within Township including interconnecting Cables to extend Power supply from nearest Lighting Panel / LT SWGR. (As per technical specification & price quoted in Table 1 and & Table 1.1 from 3.0 to 3.10)	/ Set
6	Supply, erection, Testing & installation of Double Arm Road Lighting for Internal Main Road & Internal Roads within Township including interconnecting Cables to extend Power supply from nearest Lighting Panel / LT SWGR. (As per technical specification & price quoted in Table 1 and & Table 1.1 from 3.0 to 3.10)	/ Set
7	Supply, erection, Testing & installation of High Lighting Mast at road Junctions for Internal Main Road & Internal Roads within Township including interconnecting Cables to extend Power supply from nearest Lighting Panel / LT SWGR. (As per technical specification & price quoted in Table 1 and & Table 1.1 from 3.0 to 3.10)	/ Set

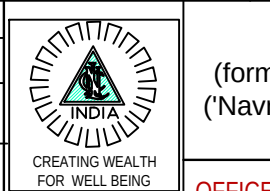


- NOTE:-
1. ALL DIMENSIONS ARE IN mm & LEVELS IN metres.
 2. RCC GRADE M25 & STEEL Fe500 CONFIRMING TO IS1786
 3. DO NOT SCALE DIMENSIONS FROM THE DRAWING.
 4. REFER PLOT PLAN, NTPP (Talabira) (DRG NO. : 18A03-DWG-M-002A) FOR PROJECT BOUNDARY. PLANT AREA SHALL BE GRADED TO RESPECTIVE LEVELS 10 M BEYOND PROJECT BOUNDARY ON ALL SIDES IN BOTH CUTTING & FILLING.
 5. FOREST AREA AND JAL BHANDARAN AREA SHOWN IN DRAWING IS INDICATIVE. ACTUAL BOUNDARIES SHALL BE CHECKED AS PER GOVT RECORDS BEFORE EXECUTION OF WORK.
 6. SLOPE OF EMBANKMENT IN FILLING AND CUTTING SHALL BE 2H:1V
 7. PROVIDE PERIPHERAL EARTHEN DRAINS AS PER DRAIN LAYOUT AT A SLOPE OF 1:750 TOWARDS OUTLET. PERFORMANCE OF THE DRAIN SHALL BE MONITORED FOR UPCOMING TWO MONSOON AND DRAIN SHALL BE WIDENED OR DEEPENED IF REQUIRED DRAIN OUTLET SHALL BE ROUTED TO BHEDAN RIVER.
 8. CHUTE ARRANGEMENT SHALL BE PROVIDED AT 30 M C/C IN BOTH CUTTING AND FILLING FACES THROUGHOUT THE EMBANKMENT.
 9. WHEREVER DIFFERENCE IN GROUND LEVEL AND FGL IS MORE THAN 5 M, AN INTERMEDIATE HORIZONTAL PLATFORM OF 5 M WIDTH SHALL BE PROVIDED.
 10. GRADING AREA SHALL BE COMPACTED TO A MINIMUM OF 95% DEGREE OF PROCTOR DENSITY.
 11. ENSURE FILLING IN LAYER IS SPREAD THROUGHOUT IN DRY CONDITION & DRY ROLLED OVER WITH VIBRO ROLLER/VIBRO SHEEP FOOT RAMMER IN LAYERS. ONCE GROUND IS LEVELLED, SPRINKLE WATER FOR CONSOLIDATION OF GROUND.
 12. FOLLOW IS 2720 PART VII METHOD OF TEST FOR SOILS FOR DETERMINING WATER CONTENT DRY DENSITY RELATION. DOCUMENT SHALL BE SUBMITTED FOR APPROVAL.
 13. LEVELS SHALL BE RECORDED AT 5 m x 5 m GRID INTERVAL FOR THE WHOLE AREA BEFORE GRADING AND AFTER GRADING. DOCUMENT SHALL BE SUBMITTED FOR APPROVAL.
 14. SITE GRADING LAYOUT INDICATING BOUNDARY COORDINATES OF EACH PLATFORM AS PER LATEST LAYOUT, CUT & FILL QUANTITY ABSTRACT SHALL BE SUBMITTED FOR NLCIL APPROVAL.
 15. SUITABLE LINING USING FLYASH BRICK SHALL BE PROVIDED. KEYBLOCK OF SIZE 100X300 SHALL BE PROVIDED ALONG THE LENGTH AT A DISTANCE OF 2 M ALONG SLOPE. TOE WALL SHALL BE DESIGNED AND PROVIDED SUITABLY ALONG THE LENGTH AT LOWER END IN EMBANKMENT CROSS SECTION IN FILLING.

B1
REVISION 3

PRELIMINARY DRAWING FOR
TENDER PURPOSE ONLY

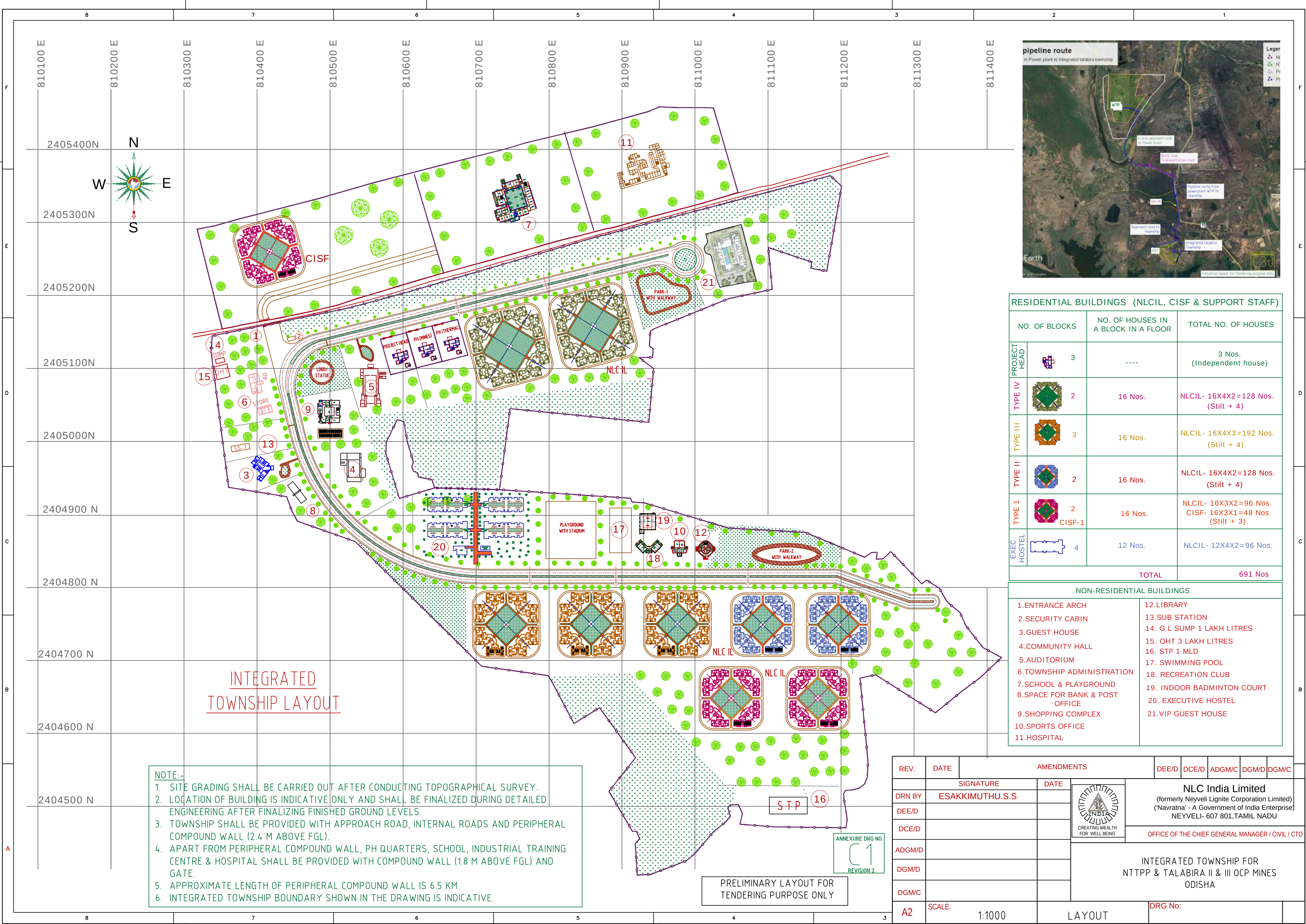
REV.	DATE	SIGNATURE	DATE	AMENDMENTS	EED	DCEID	CMD	DGMD	DGMC
DRN BY		ESAKKIMUTHU.S.S							
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DCEID									
ADGMD									
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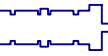
NLC India Limited
(Formerly Neyveli Lignite Corporation Limited)
(Navratna - A Government of India Enterprise)
NEYVELI- 607 801, TAMIL NADU

OFFICE OF THE CHIEF GENERAL MANAGER / CIVIL / CTO

NTPP
SITE GRADING LAYOUT



RESIDENTIAL BUILDINGS (NLCIL, CISF & SUPPORT STAFF)

NO. OF BLOCKS		NO. OF HOUSES IN A BLOCK IN A FLOOR		TOTAL NO. OF HOUSES
PROJECT HEAD	 3	----		3 Nos. (Independent house)
TYPE IV	 2	16 Nos.		NLCIL- 16X4X2=128 Nos. (Stilt + 4)
TYPE III	 3	16 Nos.		NLCIL- 16X4X3=192 Nos. (Stilt + 4)
TYPE II	 2	16 Nos.		NLCIL- 16X4X2=128 Nos. (Stilt + 4)
TYPE I	 2 CISF-1	16 Nos.		NLCIL- 16X3X2=96 Nos. CISF- 16X3X1=48 Nos. (Stilt + 3)
EXEC. HOSTEL	 4	12 Nos.		NLCIL- 12X4X2=96 Nos.
TOTAL				691 Nos

NON-RESIDENTIAL BUILDINGS	
1. ENTRANCE ARCH	12. LIBRARY
2. SECURITY CABIN	13. SUB STATION
3. GUEST HOUSE	14. G.L SUMP 1 LAKH LITRES
4. COMMUNITY HALL	15. OHT 3 LAKH LITRES
5. AUDITORIUM	16. STP 1 MLD
6. TOWNSHIP ADMINISTRATION	17. SWIMMING POOL
7. SCHOOL & PLAYGROUND	18. RECREATION CLUB
8. SPACE FOR BANK & POST OFFICE	19. INDOOR BADMINTON COURT
9. SHOPPING COMPLEX	20. EXECUTIVE HOSTEL
10. SPORTS OFFICE	21. VIP GUEST HOUSE
11. HOSPITAL	

REV.	DATE	AMENDMENTS	DEE/D	DCE/D	ADGM/C	DGM/D	DGM/C
DRN BY	SIGNATURE		DATE		 NLC India Limited (formerly Neyveli Lignite Corporation Limited) (‘Navratna’ - A Government of India Enterprise) NEYVELI- 607 801, TAMIL NADU OFFICE OF THE CHIEF GENERAL MANAGER / CIVIL / CTO INTEGRATED TOWNSHIP FOR NTTPP & TALABIRA II & III OCP MINES ODISHA		
DEE/D	ESAKKIMUTHU.S.S						
DCE/D							
ADGM/D							
DGM/D							
DGM/C							
A2	SCALE:	1:1000	LAYOUT		DRG No:		

**Pre-Bid Queries/Clarifications for EPC Tender-NLC Talabira Thermal Power Project(NTTPP) 3X800 MW
at Jharsuguda, Odisha**

Sl. No	Bidder Query Ref.	Pre-Bid Queries/ Clarifications	NLCIL / DCPL Reply
1.	L&T/ EPC-Coal/ NLC Talabira-EPC/20-21/23 Date: 19th March, 2021	We would like to draw your kind attention towards important issue related to 55% TMCR Heat rate guarantee cited in Annexure-1 attached with this letter. We sincerely request your kind review on the aforesaid critical issue and amend the same to bring these in line with other recent Central Utility Power Project tenders.	Bidder to refer enclosed Corrigendum Annexure – C2N, S.No 5 to 10 in this regard.
2.	L&T/ EPC-Coal/ NLC Talabira-EPC/20-21/23 Date: 23rd March 2021	This is regarding Unit Availability Guarantee specified in the tender and subsequent amendment through corrigendum 8. You may please recall our discussions and various representations made by us, wherein we had requested NLCIL to remove this stringent condition of guaranteeing Unit Availability. We have apprised that Unit availability largely depends on efficient Operation and effective Routine & Preventive maintenance being followed by O&M team, which will be carried out by NLCIL. In an EPC Contract, major items/ systems for this Project shall be sourced from pre-qualified vendors. However, compliance to defects arising during Warranty/ DLP period shall in any way be adhered by EPC Contractor as per terms of contract. As informed earlier, Availability Guarantee has been considered as a significant risk by our Apex Risk Committee and retention of this clause in present form will be a constraint to our participation in this prestigious project. Thus, we once again request Purchaser to reframe the clause suitably to enable us to participate in the bidding process. It will not be out of place to mention here that L&T is very keen to actively participate in this prestigious project and hence we seek your personal attention and intervention in this matter. We also request for a meeting with your team to discuss mutually acceptable solution on this aspect of Availability Guarantee. We would be grateful if NLCIL considers our above request to ensure competitive offers from bidders.	Bidder to refer enclosed Corrigendum Annexure – C2N, S.No 1 to 4 in this regard.
3.	L&T/ EPC-	This is in reference to several representation made by us thru our letters referred above	Bidder to refer

**Pre-Bid Queries/Clarifications for EPC Tender-NLC Talabira Thermal Power Project(NTTPP) 3X800 MW
at Jharsuguda, Odisha**

Sl. No	Bidder Query Ref.	Pre-Bid Queries/ Clarifications	NLCIL / DCPL Reply
	Coal/ NLC Talabira-EPC/20-21/28 Date : 1st May, 2021	regarding Unit Availability Guarantee specified in the tender conditions and the associated Liquidated Damages provisions. We had requested M/s NLCIL to remove this stringent condition of guaranteeing Unit Availability as Unit availability largely depends on efficient Operation and effective Routine & Preventive maintenance being followed by O&M team, which will be carried out by M/s NLCIL. As an EPC Contract, our primary role is build the plant in compliance to technical requirements specified in the tender conditions and sourcing all major items/ systems from pre-qualified vendors approved by M/s NLCIL. Further, we shall provide all the necessary support to M/s NLCIL during Warranty/ DLP period in order to facilitate M/s NLCIL to operate and maintain the plant as per OEM recommendations. While L&T is keen to participate in this prestigious project by M/s NLCIL, Availability Guarantee has been considered as a significant risk by our Apex Risk Committee and retention of this clause for Unit Availability Guarantee will be a constraint to our participation in this prestigious project. We seek your personal attention and intervention in this matter and once again humbly request M/s NLCIL to reconsider our request for removal of Unit Availability Guarantee from the EPC Contractor's scope.	enclosed Corrigendum Annexure – C2N, S.No 1 to 4 in this regard.

		NLC INDIA LIMITED NLC TALABIRA THERMAL POWER PROJECT 3x800 MW, JHARSUGUDA, ODISHA (EPC Bidding Document)- Reply to L&T LOT 7 Queries						
Sr. No.	Section / Part / Chapter / Volume	Clause No.	Page no.	Bid Specification Stipulation	Statement of clarification sought	Owner's Reply	Statement of clarification sought 17.04.2021	Purchaser's Reply
Commercial								
1882	Compendium 8, Section 8, Volume IB/Section 5, Taxes and Duties d. s.6.0 Pg. 51 of 610		Page 2 of 3	(2) Royalty The contract price is inclusive of all applicable taxes, levies and duties including all Royalties and the Bidder shall quote accordingly. The Royalty amount will not be reimbursed by NLCIL if there is a demand by statutory bodies at a later date for payment of any royalties, the same will be deducted by the purchaser from contractor's bills progressively, unless receipt in support of payment made to the concerned authorities is provided by the Contractor. Any penalty levied by the Statutory bodies in this regard will also be to Contractor's account.	-----	-----	Bidder understands that the usage of earth excavated from the plant area, ash pond and coal mine area for embankment construction, area grading and back filling fall within the purview of 'bona fide domestic consumption' of NLCIL, thus shall remain exempted from mineral royalty in the state of Odisha both in the hands of NLCIL and the contractor. Owner to please confirm acceptance.	As per Cl. 1.1 of Chapter 2, Volume IB (Section A), earth required for grading shall be identified by bidder from Talabira Mines OB/Power plant area/Raw water reservoir area/Other sources. Bidder shall enquire with concerned authorities and quote accordingly. The Royalty amount will not be reimbursed by NLCIL. If there is a demand by statutory bodies at a later date for payment of any royalties, the same will be deducted by the purchaser from contractor's bills progressively, unless receipt in support of payment made to the concerned authorities is provided by the Contractor. Any penalty levied by the Statutory bodies in this regard will also be to Contractor's account.
1883	Section 8, Volume IB/Section 5, Taxes and Duties Com-8	CL. 6.0	51 of 310	(2) Royalty The contract price is inclusive of all applicable taxes, levies and duties including all Royalties and the Bidder shall quote accordingly. The Royalty amount will not be reimbursed by NLCIL. If there is a demand by statutory bodies at a later date for payment of any royalties, the same will be deducted by the purchaser from contractor's bills progressively, unless receipt in support of payment made to the concerned authorities is provided by the Contractor. Any penalty levied by the Statutory bodies in this regard will also be to Contractor's account.	-----	-----	Noted. However, we understand that, in the event of any statutory increase in the rates of royalty charged/fresh levy of royalty on materials / earthwork, the same shall be reimbursed to the Contractor upon submission of original challan by him of having made the payments at revised rates. In the event of any decrease in such rates, the same shall be recovered from the Contractor. The base rate for calculating the increase or decrease shall be the rate prevailing as on Base Date. Kindly confirm.	Tender condition prevails.
Civil								
1884	Compendium 8, Annexure D, (Reply to Civil technical queries for Section A - Infrastructure works by M/s. L&T - Lot 4 received vide email dtd. 22-01-2021) Volume IIA/Section IV, Section B - Scope of supply	Sr. No. 1819 and Sr. No. 1814	123 of 294 and 2 of 294	-----	Bidder understands that Land will be acquired by Owner for the corridors which are above ground like Pipe bridge/pedestals for river water intake pipeline and ash pipes (over ground portion). Approach road, foundation for transmission tower etc. Please confirm.	It is once again reiterated that the Facilitation, co-ordination & Liaisoning for timely acquiring Right of Way (ROW), Right of use (ROU) and obtaining necessary approvals for the same is in the scope of Bidder. NLCIL will pay all statutory fees and compensation for land acquisition on ROW basis fixed by the District administration / any other Govt agencies / Statutory agencies against the official receipts. All other costs associated with timely acquisition of the ROW shall have to be borne by the Bidder. Bidder's scope also include all facilitation for the ROW/ROU including co-ordination with Govt / private parties and getting the ROW/ROU within the overall time schedule of the Project. No time extension for the delayed completion of work due to the delay in acquisition of ROW/ROU will be permitted to the successful Bidder.	We understand that Bidder's scope shall be limited to Facilitation, Coordination and Liaisoning for Right of Way (ROW)/Right of Use (ROU), as applicable as per the scope of work. Accordingly, land acquisition, wherever required, including its Facilitation, Coordination and Liaisoning for the complete Project and for facilities outside plant boundary shall be part of NLCIL's responsibility/obligation. Kindly confirm the above.	Facilitation, co-ordination & Liaisoning for timely acquiring Right of Way (ROW), Right of use (ROU) and obtaining necessary approvals for the same is in the scope of Bidder. NLCIL will pay all statutory fees and compensation for ROW fixed by the District administration / any other Govt agencies / Statutory agencies against the official receipts. All other costs associated with timely acquisition of the ROW shall have to be borne by the Bidder. However if Land acquisition is required in ROW area, the Facilitation, co-ordination & Liaisoning are in Bidder's scope. NLCIL will pay all statutory fees and compensation fixed by the District administration / any other Govt agencies / Statutory agencies against the official receipts for the land acquisition. All other costs associated with timely acquisition of the Land shall have to be borne by the Bidder. No time extension for the delayed completion of work due to the delay in acquisition of ROW/ROU will be permitted to the successful Bidder.
1885	Compendium 1 Drawing No. 18A03-DWG-C-008			GA of Ash Dyke	a) Ash pond area as per tender coordinates (i.e. Drawing No. 18A03-DWG-C-008) are fouling with existing CTR road and houses towards the southern part. Bidder understands that rerouting of the CTR road and relocation of existing village houses shall be taken up by NLCIL before issuance of LOA. b) Also HT lines running over the land parcel of ash pond shall be rerouted by Owner, if the same causes hindrance for embankment construction. Please confirm. c) Bidder requests Owner to introduce variation clause (per cubic meter) of earthwork for ash pond.	a) The Ash Dyke area shown in tender drawing is indicative and shall be on the North of CTR road. Existing hatchments (if any) within the Ash Dyke area shall be relocated by the owner. b) HT lines crossing the Ash Dyke area shall be rerouted by the owner. c) Tender condition prevails. Variation clause(per cubic meter) of earthwork for ash pond will not be given.	Quantity variation clause is not available in specification for ash pond. Also there will be implication on earth work and other quantities, if the location and layout of ash pond is changed as per land availability. Therefore, Bidder requests Owner to share revised layout of ash pond before submission of techno commercial price bid.	For Quantity Variation, Bidder to refer revised Table 9 / Schedule for Unit Rate / Vol IA, in the enclosed corrigendum. For Layout and location, Tender Condition prevails
Ash Handling System								
1886	Vol. II-A/Section-IX Mandatory Spares-BOP	3.15.20	Page 279 of 421	Pipes: If the calculated quantity is less than 6 meters, a minimum length of 6 meters shall be supplied for each type & size of pipes. i) Conveying & instrument air pipe: 5% of the total length for each size of pipe ii) Vacuum air pipe: 5% of the total length for each size of pipe iii) Fluidising air pipe: 5% of the total length for each size of pipe iv) CI pipes for fly ash vacuum extraction: 5% of the total length for each size of pipe v) Pressure pneumatic ash conveying pipe: 10% of the total length for each size of pipe vi) All water pipes: 5% of the total length for each size of pipe vii) Combined HCSD slurry line pipe: 5% of the total length for each size of pipe viii) Bottom ash and Coarse ash slurry line pipe: 10% of the total length for each size of pipe.	-----	-----	Owner to note that AHP piping is a ready made item available in market as and when required, hence, spare of AHP piping is not recommended as it will be overhead to Owner for handling of inventory of the same. In view of above, Owner is requested to delete requirement of Ash Handling piping as spares inline with all NTPC & SUBS Tenders.	Tender Condition Prevails
1887	Vol. II-A/Section-IX Mandatory Spares-BOP	3.15.35	Page 286 of 421	List of mandatory spares for HCSD system (Applicable for One Chain of HCSD System): 13.1.1.7 Clamping piece 13.1.1.14 Treating reducing piece 13.1.1.17 Spacer sleeve 13.1.1.22 Valve support 13.1.2.3 Clamping piece 13.1.2.4 Spring type straingt pin [Pin]	-----	-----	As per OEMs, referred some of items under mandatory spares list of HCSD Pumps are not applicable, hence, Bidder understands that HCSD pump mandatory spares shall be considered as per OEM standard. Kindly confirm bidder's understanding.	Bidder shall indicate the Not-applicable item during the submission of bid. Bidder is requested to refer Vol. II-A/Section-IX Mandatory Spares-BOP (Page 327 of 421) 'Annexure -I, Point No-5 for further clarification.
1888	Vol. II-HI/ Ash Handling System	5.34.07 E) ii)	Page 73 of 90	The speed of positive displacement pump shall not exceed 50 strokes/minute.	-----	-----	The speed of Positive displacement pump can be finalised by Supplier based on Flow requirement and operational Philosophy. The maximum 50 SPM limitation leads to selection of higher size pump which is uncalled for. Technically the SPM does not have any direct impact on wear and tear of the pump and SPM is not the only criteria for satisfactory performance of the pump since the sizing of the valve is chosen in such a way that velocity which is the wear factor, hence there will be no influence due to higher SPM. Further it is also our observation that no SPM limitation is kept in most of the project specifications and it is up to the manufacturer to select the same since the product is always warranted. In view of above, Bidder requests Owner to remove the limitation on strokes/minute. Kindly confirm acceptance.	Tender Condition Prevails

		NLC INDIA LIMITED NLC TALABIRA THERMAL POWER PROJECT 3x800 MW, JHARSUGUDA, ODISHA (EPC Bidding Document)- Reply to L&T LOT 7 Queries						
Sr. No.	Section / Part / Chapter / Volume	Clause No.	Page no.	Bid Specification Stipulation	Statement of clarification sought	Owner's Reply	Statement of clarification sought_17.04.2021	Purchaser's Reply
Coal Handling Plant								
1889	Vol. II-H2	5.01.01-xx	Page 11 of 114	Also types of non-drive pulleys for conveyors shall be limited to five (5) .	_____	_____	Discharge pulley & HT bend pulley of Travelling Trippers & Stacker cum reclaimers are excluded from standard 5 types of Non drive pulley as Travelling trippers & Stacker-Reclaimers are equipment, hence same are not considered in conveyor category. The above is standard engineering practice for in plant conveyor application. Kindly confirm acceptance.	Bidder understanding is correct.
1890	Vol. II-H2	5.04.00-(xii)	Page 15 of 114	For all inclined unidirectional conveyors external hold back to be provided.	_____	_____	Owner to note that 4-meter conveyor center to center (As confirmed by owner vide Pre-Bid Queries' Clarifications Lot 1, Annex 3 page 89) is not sufficient keeping external hold back for double stream conveyors, in addition to that internal holdback integral with gearbox is sufficient for this application. In view of above, for all inclined unidirectional conveyors, internal hold back integral with Gear Box shall be considered instead of external hold back. Kindly confirm acceptance.	Tender Condition Prevails
1891	Vol. II-H2	5.28.00	Page 41 of 114	Tripper shall be complete with brake, sprockets, roller chain , chain tightener, oil tight chain casing, etc.	_____	_____	Chain drive will not be recommended for travelling tripper of higher capacity & same is obsolete. Hence, Travelling tripper shall be driven by combination of motor, gearbox & coupling with brake & rail clamp. Kindly confirm acceptance.	Bidder to refer Corrigendum-5, Page No. 870 of 1336, S.No. 209 for NLCIL Reply.
1892	Vol. II-H2	5.21.00	Page 30 of 114	The deck of Vibrating grizzly feeder shall have continuous solid deck section in the impact zone under direct coal fall and remaining deck shall be fitted with grizzly bars . The solid deck section shall be provided with replaceable abrasion resistant.	_____	_____	As maximum lump size (<100 mm, hence, perforated screen is sufficient for this application. Also same is used (<300 mm lump size in our previous projects. In view of above, except impact zone, deck of Vibrating screens shall have perforated plate instead of grizzly bar. Kindly confirm acceptance.	Tender Condition Prevails
1893	Vol. II-H2	4.16.00	Page 7 of 114	All transfer chutes with all necessary supporting structure, liners etc. shall have to be provided at all Junction Towers (Vz-JT-1, JT-2, JT-3, JT-4, JT-5, JT-6, JT-7 and JT-8), Receiving Tower, Crusher House, Drive Houses (Drive House-1 & Drive House-2), Boiler Bunker Bays . Separate tramp iron chute up to ground level with associated structures, Floor cleaning chutes in all CHP buildings.	_____	_____	Boiler bunkers are not considered as CHP buildings, same is part of Main Powerhouse BTO building. Also, floor cleaning chute for boiler bunkers are not considered in any of our executed NTPC projects. In view of above, floor cleaning chute are not considered in Boiler Bunkers. Kindly confirm acceptance.	Tender Condition Prevails
1894	Vol. II-H2	5.02.00		For calculating minimum slack side tension to be provided from wrap consideration a factor of 1.5 over total effective belt tension is to be considered to prevent slippage of belt during starting.	_____	_____	Start-up factor is based on coupling type. It is not a flat factor. Based on same, slack side tension is calculated. Hence, for calculating minimum slack side tension to be provided from wrap consideration, bidder will consider start-up factor 1.2 for Scoop type fluid coupling & 1.5 for Delay filled type fluid coupling over total effective belt tension is to be considered to prevent slippage of belt during starting. The above is inline with our executed projects. Kindly confirm acceptance.	Tender Condition Prevails
1895	Vol. II-H2	5.19.01(i)	Page 29 of 114	For handling take-up pulleys along with take-up frame & counterweight two (2) number, electric hoist with monorail beam of adequate capacity having adequate travel arrangement at bottom of gallery shall be provided for VGTU and manual hoist with chain pulley block of adequate capacity shall be provided for HGTU.	_____	_____	For handling take-up pulleys along with take-up frame & counterweight, combination of electric & manual hoist shall be provided in VGTU. Hence, electric hoist quantity per VGTU will be 1 no. instead of 2 nos as per standard hoisting philosophy followed in executed coal handling plants. Kindly confirm acceptance.	Tender Condition Prevails
1896	Vol. II-K/Section-III	ANNEXURE-I:	Page 12 of 13	In addition to above, two nos. of electrical hoists shall be provided for lifting the counter weight of each gravity take-ups	_____	_____	For counterweight handling for each gravity take-ups, Manual hoists shall be considered as per standard hoisting philosophy followed in executed coal handling plants. Kindly confirm acceptance.	Tender Condition Prevails
1897	Vol. II-H2	5.14.02-iv-c	Page 25 of 114	Adequate cut out with guide rollers shall be provided in Galleries to facilitate replacement of conveyor belts.	_____	_____	Belt replacement are to be done through Gravity take up bend pulley as per standard belt replacement philosophy followed in executed coal handling plants instead of providing separate belt changing rollers with cut out in gallery. Kindly confirm acceptance.	Tender Condition Prevails
1898	Vol. II-H2	5.02.00-II	Page 11 of 114	The belting shall be of either synthetic fabric such as Polyester, Polyamide or Steel Cord etc. with rubber covers of adequate flexibility to give a troughing angle of 35°.	_____	_____	Based on conveyor Tension & conveying material characteristic, Nylon-Nylon belt is sufficient. Hence, Belting shall be of Nylon-Nylon (N-N) instead Polyester- Polyamide (EP) as followed in executed coal handling plants. Kindly confirm acceptance.	Tender Condition Prevails
1899	Vol. II-H2	5.04.00-(iv)	Page 15 of 114	All tail, bend and snub pulleys shall be shell mounted type (dead axle type)	_____	_____	Live axle shaft pulley is conventional for in-plant conveyor application & running successfully in our executed NTPC/SUBs Projects. Also, dead axle pulley manufacturer are limited in Indian market. Hence, Instead of shell mounted type (dead axle type), bidder consider (live axle) turbo diaphragm pulley connected to the shaft through keyless friction grip connection for all tail & bend pulleys and Non turbo diaphragm (Live axle) design for all snub pulleys. Kindly confirm acceptance.	Tender Condition Prevails
1900	Vol. II-H2	5.02.00-vii	Page 12 of 114	Maximum belt tension developed in the belt corresponding to design capacity during running condition should not exceed 80% of the maximum allowable belt tension [For Polyester-Polyamide (EP)] 80% of rated maximum allowable belt tension [For Steel Cord] of the selected belt and as recommended by manufacturers and during starting condition it should not exceed 150% of maximum allowable belt tension.	_____	_____	As per manufacturer recommendation, Maximum belt tension developed in the belt corresponding to design capacity during running condition should not exceed 90% of the maximum allowable belt tension [For Nylon-Nylon(N or [EP]). Kindly confirm acceptance.	Tender Condition Prevails
1901	Vol. II-H2	5.36.2	Page 47 of 114	Duct work for dust extraction system shall be made of 5mm thick MS sheet.	_____	_____	As per the standard practice followed in previous executed CHP project of NTPC, Duct work for dust extraction system shall be made of 3.15 mm thick MS sheet in line with the clause no. 5.04.3 of Vol. II-H3/Section-V/ Dust Extraction, Dust Suppression and Service Water System of page 8 of 21 and also nothing is specified regarding the thickness of bag filter hopper of CHP area, we are considering 3.15mm thick. Kindly confirm acceptance.	Tender Condition Prevails

		NLC INDIA LIMITED NLC TALABIRA THERMAL POWER PROJECT 3x800 MW, JHARSUGUDA, ODISHA (EPC Bidding Document)- Reply to L&T LOT 7 Queries						
Sr. No.	Section / Part / Chapter / Volume	Clause No.	Page no.	Bid Specification Stipulation	Statement of clarification sought	Owner's Reply	Statement of clarification sought 17.04.2021	Purchaser's Reply
1902	Vol. II-G/Section-I General	4.22.04	Page 46 of 118	Crusher Foundation: The crusher shall be supported on M35 grade RCC deck slab mounted on vibration isolation system comprising springs and viscous dampers, which in turn shall be supported independently on ground-supported RCC frame structure. The crusher foundation and columns shall be made <u>isolated from crusher building</u> & this shall suit to process requirements. Crusher foundations shall be kept isolated by providing 75 to 100 mm gap all around at crusher floor level as per process requirements.	_____	_____	Bidder proposes the following - "Crushers shall be supported on R. C. C. deck, which in turn will rest on suitable vibration isolation system consisting of springs and dampers. This R. C. C. deck shall be isolated from the floor. However, the vibration isolation system consisting of springs and dampers will rest on main building framework." The above is as per the standard practice followed in all NTPC & SUBS Projects. Kindly confirm acceptance.	Tender Condition Prevails
1903	General			Incoming power supply to Client Mine end Pipe Conveyor	_____	_____	Bidder understands that incoming power supply to Client Mine end Pipe Conveyor shall be in Owner scope as information is not available in NIT for the same. Kindly confirm bidder's understanding.	Bidder understanding is correct.
Water Systems								
1904	Vol. II-B/4/Section-I Effluent Treatment Plant Annexure II	Annexure II SL (4)		TSS in outlet of 'sludge basin' is mentioned as <100 ppm	_____	_____	We presume sludge basin as ETP sludge sump. Please note that it will not be possible to achieve 100 ppm TSS in outlet of sludge basin as it will receive high TSS effluent from multiple streams.	Noted. The bidder shall note that TSS in the Effluent (from ETP sludge sump) is effectively removed in the ETP clarifier and UF before fed to ETP Reject SWRO Plant.
1905	Vol. II-B/2/Section-IV Chlorination Plant & CW Conditioning	4.02.03 3.01.08	7 of 29 2 of 29	Salient Design Features - Circulating Water Chlorination System Capacity of ClO2 generator: Minimum 155 kg/hr. (2W + 1S) 2x100% Chlorine-Di-Oxide (ClO2) generator system each for RW / PW system and 3x50% Chlorine-Di-Oxide (ClO2) generator system for CW system.	_____	_____	Owner to note that the capacity of each ClO2 Generator Stream is minimum 155 kg/hr. However, as per our discussion with various vendors, they have not manufactured ClO2 generator of this capacity. Hence we request you to provide an alternative configuration of 4x33% / 6x25% as per OEM proven practice, which will meet the system requirement. Please confirm acceptance.	Bidder to note that ClO2 generator system (for CW system) capacity indicated in the tender specification represents the total minimum capacity i.e., 155 kg/hr and the configuration shall be 3 x 50% (2 W + 1S). Please refer to change in Specification.
1906	General	- Clarification Clause No. 865	-	DM Plant Bidder's Query: We understand that Weak Acid Cation Exchanger & Weak Base Anion Exchanger are not applicable for DM Plant for this project. Owner's Clarification: Bidder's understanding is correct.	_____	_____	Owner to note that WAC & WBA need to be considered as per OEM recommendation due to higher ionic loading as per water analysis provided in the tender document. Hence Owner to issue amendment to bring all bidders at par.	In the DM Plant, Weak Acid Cation Exchanger & Weak Base Anion Exchanger need not be envisaged as the water quality is considerably good. Tender condition prevails.
1907	Vol. II-B/4/Section-I Effluent Treatment Plant	ANNEXURE-V-FEED WATER LIMITING CONDITIONS FOR REVERSE OSMOSIS MEMBRANE	45 of 104	a. Turbidity < 1 NTU b. SDI < 3 c. Temperature 45 Deg C ... g. pH - 3 to 10 Bidder's Query: Please recheck the Limiting Condition of Temperature of 45 Deg C, appears to be too high for membranes to prevent damage to its structure. Owner's Clarification: Tender condition prevails.	_____	_____	Please note that as per OEM recommendation, continuous temperature of 45 deg C shall be dangerous for membrane performance and hence not advisable. The same shall be limited to 40 deg C or below. Owner to confirm acceptance.	Tender condition prevails.
HVAC								
1908	VOLUME: II-J, SECTION-IV, AIR CONDITIONING SYSTEM	2.04.10 Non Chemical Water Treatment Device or Water Softening Device	Page 15 of 67	A. Non Chemical Water Treatment Device „One(1) No. B. Water Softening Device One (1) No. Bidder's Query: Bidder understands that either of the two devices, A or B, if required, shall be provided but depending upon water quality for suitability with operating equipment. Please confirm bidder's understanding. Owner's Clarification: Tender conditions prevails	_____	_____	Bidder shall offer either of the two devices, A or B, if required. Same shall be provided depending upon water quality for suitability with operating equipment. Please confirm acceptance.	Bidder understanding is correct and the same shall be inline with Vol-II-J, Section-IV, Clause 1.03.02 & 2.04.10 respectively.
1909	Section B / Vol. I-B/Section-9 Performance Guarantees	9.5.2.14	Page 129 of 310	Air Conditioning and Ventilation System A Air Conditioning System (1 Duty factor for power consumption of A/C equipments of service building shall be 0.5.) Bidder's Query: Owner is requested to note that the Power Consumption for Chiller for AC System for TG & Service Building is common, so it is difficult to differentiate in the Chillers & Pumps power consumption for Service Building & TG Building. Please clarify. Owner's Clarification: Tender conditions prevails	_____	_____	Owner is requested to note that the Power Consumption for Chiller for AC System for TG & Service Building is common, so it is difficult to differentiate in the Chillers & Pumps power consumption for Service Building & TG Building. Hence, bidder shall consider the Duty factor of Chiller & associated Pumps as 0.5. Please confirm acceptance.	Not acceptable. Tender conditions prevails.

		NLC INDIA LIMITED NLC TALABIRA THERMAL POWER PROJECT 3x800 MW, JHARSUGUDA, ODISHA (EPC Bidding Document)- Reply to L&T LOT 7 Queries						
Sr. No.	Section / Part / Chapter / Volume	Clause No.	Page no.	Bid Specification Stipulation	Statement of clarification sought	Owner's Reply	Statement of clarification sought_17.04.2021	Purchaser's Reply
Fire Protection & Detection System								
1910	Vol. II-3/Section-II/Sub Section-II-A Fire Detection & Protection System	3.01.05	10 of 141	Clean Agent flooding system One centralized total flooding type inert gas (IG100 and IG 541) extinguishing system shall be provided for the following areas as a protection for fire damage. i) Main Control rooms. Control equipment room including above false ceiling and inside rooms' voids. ii) Electrical and electronic equipment rooms UPS, UPS charging room and Battery room including above false ceiling and inside rooms' voids. iii) <u>Control Rooms of FGD & SCR (if applicable).</u>	_____	_____	Owner to note that as per Standard Industrial practice, control rooms of FGD & SCR are not required to be protected by Clean Agent Flooding System. Instead, they are protected by MVW Spray System. Hence, Bidder understands that protection of FGD & SCR control rooms shall be by MVW Spray System. Please confirm bidder's understanding.	Bidder to note that the clean Agent Flooding System is not required to consider for control rooms of FGD & SCR. Hence, the relevant clause will be modified suitably. Bidder to further note that these areas are to be protected by hydrant water monitor system and portable fire extinguishers as per tender specification as per clause no.3.01.01 & Annexure 1. Bidder also note that for cable vault/cable gallery/cable spreader room of FGD & SCR to be protected by MVW Spray system as per tender specification clause no. 3.01.03 c).
1911	Vol. II-3/Section-II Fire Protection & Detection	4.03.00, Clean Agent Flooding System Cl. no. (v) & 4.03.02 Cl. No (f) & 6.05.00 Cl. No. (v)		v) The discharge time period shall be such that the design concentration shall be achieved within 60 seconds. The flow calculations shall establish this criteria. (f) The discharge time period shall be such that the design concentration is achieved within time duration specified in NFPA-2001 (latest edition). Flow calculations shall also establish this criteria. vi) The discharge time period shall be such that the design concentration is achieved within 120 seconds. The flow calculations shall establish this criteria. Bidder's Query: Contradiction noticed in discharge timing for gas flooding in the contract, hence Bidder understands that the discharge timing shall be inline with the Latest NFPA 2001, Owner to confirm. Owner's Clarification: Bidder to consider the discharge time period shall be such that design concentration shall be achieved within in 60 second in compliance with latest NFPA 2001 standard. Accordingly clause 6.05.00 vi) shall be modified.	_____	_____	Owner to note that the discharge time period shall be such that the design concentration is achieved within 120 seconds. The same is accepted in recent NTPC tenders. Owner to confirm acceptance.	Tender conditions prevail.
Electrical								
1912	Vol. II-F1/Section-I General Electrical Specification Vol. II-F1/Section-I General Electrical Specification Vol. II-F2/Section-II L.T. Transformers	1.11.09 _____ 4.27.13 _____ 4.02.02	4 of 83 38 of 83 4 of 15	Transformers shall be Naturally Cooled (AN) vacuum pressure impregnated dry type and located indoors. The service transformers shall be of dry type with coils resin impregnated under vacuum and pressure (VPI) type and AN cooling. The coils shall be manufactured from electrolytic copper conductor and fully insulated for rated voltage. Coils shall be resin impregnated under vacuum and pressure (VPI) type.	_____	_____	Majority of Dry type transformer supplier in India manufactures transformer with Cast Resin Type technology. Hence bidder requests to accept CRT type transformer (with Insulation Class F with temperature rise limited to B) as an alternative to VPI type transformer. Moreover, we would like to highlight that life expectancy of cast Resin transformer is much higher than VPI transformer.	Bidder to refer change in Specification
1913	Vol. II-F2/Section-XIII Substation Automation System	18.03.00	24 of 41	HMI shall provide facility of Equipment Simulation, which is a tool used to test computers, gateways, IEDs and HMI on Station LAN through its Communication interface (as clients) or to simulate them (as Servers). User commands and scenario interact with the communication interface Training Simulator / Equipment Simulator a) Network Constrained Dispatch b) Outage Scheduler c) Contingency Analysis d) Contingency Planning e) Preventive Action f) Short Circuit Analysis g) Study Power Flow h) Optimal Power Flow and Volt VAR Dispatch i) Earth Mat Designing (ETAP) j) Earth Mat Calculation k) Load Shedding & Forecasting l) Energy Audit m) Trending, Fault Detection, Isolation & Restoration n) Dynamic Network Coloring and Circuit Tracing	_____	_____	Bidder request Owner to review the requirement as mentioned in referred clause no. 18.03.00 Vol II-F2/Section-XIII as no SAS system is available with specified feature in specification. Hence, Bidder understands that this requirement is not required for power plant SAS and hence needs to be deleted.	Bidder to note that the requirement is for simulation of logic in power plant SAS as DEMO mode by LDC. Hence the required soft logic and interface shall be made available in power plant SAS
1914	Vol. II-F1/Section-I General Electrical Specification Vol. II-F1/Section-IV Generator Bus Duct	4.16.03 3.07.00	26 of 83 3 of 23	The IPBD shall be sized based on following factors: a) Continuous current rating shall be calculated with 10% design margin corresponding to 95% of Generator terminal voltage with 105% load as per IS 8084. The IPBD shall be sized based on following factors: a) Continuous current rating shall be calculated with 10% design margin corresponding to 95% of Generator terminal voltage with 105% load as per IS 8084.	_____	_____	IPBD is sized for generator current at VWO conditions, hence additional 10% design margin is not required to be considered for IPBD sizing. Bidder requests Owner to delete requirement of 10% design margin for IPBD and issue amendment.	Tender Conditions prevail
1915	Vol. II-F1/Section-I General Electrical Specification Vol. II-F1/Section-IV Generator Bus Duct	4.16.03 f) 3.07.00 f)	26 of 83 3 of 23	The fault withstand time rating of the bus duct shall be 3 sec. The fault withstand time rating of the bus duct shall be 3 sec.	_____	_____	The fault clearing time of protection system is less than 1 second, hence fault withstand rating of 1 second shall be sufficient which is as per prevalent standard industry practice. Bidder requests Owner to accept the fault withstand time rating of 1 second for IPBD instead of 3 second and issue amendment.	Tender Conditions prevail
1916	Vol. II-F1/Section-IV Generator Bus Duct	2.6 b	17 of 23	Bus enclosure: Aluminum alloy Grade 63401	_____	_____	Bidder would like to clarify that Enclosure material for IPBD shall be of Aluminum Grade 19501 as Aluminum Grade 63401 is extruded type material. Since the diameter of IPBD enclosure being large, it cannot be manufactured out of Grade 63401.	Bidder to refer change in Specification
1917	Vol. II-F2/Section-XIX 415V Non Segregated Phase Busduct	2.01.00	6 of 11	Routine Tests: d) Mill-volt drop test e) Water tightness test	_____	_____	Bidder would like to clarify that Mill-volt drop test and Water tightness test is part of type test, hence bidder propose to submit reports for Owner's review.	Bidder to refer change in Specification
1918	Vol. II-F1/Section-I General Electrical Specification Vol. II-E/Section-VII Instruments and Systems	4.34.13 8.02.04	49 of 83 217 of 268	The fire survival power & control cables suitable for withstanding 950°C temperature for three (3) hours ... For Fire Survival cables, the cables shall meet the circuit integrity test for a minimum period of three (3) hours at maximum temperature of 750 deg.C as per IEC-60331.	_____	_____	Since there is discrepancy in the temperature limit of Fire Survival cables, Bidder request purchaser to reconcile this discrepancy.	For Fire survival cable Temperature limit Vol-II-F1, Cl.4.34.13, page 49 of 83 shall be referred
1919	Compendium No.5, Point No. 60 Page no.708 of 1335 Query reference: Drawing part I	SI. No. 60	Page 35	Tender Specification: Plant Road & Drains Dwg. No. – 18A03-DWG-C-0006,Rev-0 Bidder's Query: Please confirm if following buildings are single storied or double storied :- GIS Relay panel room adjoining 765kV GIS hall & 400kV GIS hall. Owner's reply: Bid specification is clear.	_____	_____	NLC/IDCPL had responded as "Bid specification is clear". However, no clarity is available in bid specification of whether this relay panel rooms requires cable vault or not. Bidder understand the relay panel room on ground floor with cable trenches for cabling purpose is acceptable. Bidder request owner to confirm bidder understanding.	Bidder understanding is correct
1920	Vol. II-F1/Section-IX Generator Transformers Vol. II-F1/Section-XIII Interconnection Transformer	1.01.06 1.04.00	1 of 33 1 of 34	On Line Moisture Removal System On Line Moisture Removal System	_____	_____	Bidder understands that the On Line Moisture Removal System is not required for spare GT and spare ICT. Owner may please confirm bidder's understanding.	Bidder understanding is correct, however suitable provision shall be provided to hook up at later stage.
1921	Vol. II-F1/Section-IX Generator Transformers Vol. II-F1/Section-XIII Interconnection Transformer	1.01.03 1.03.00	1 of 33 1 of 34	On-line dissolve gas analyzing system & CMS On-line dissolve gas analyzing system & CMS	_____	_____	Bidder understands that the On-line dissolve gas analyzing system & CMS is not required for spare GT and spare ICT. Owner may please confirm bidder's understanding.	Bidder understanding is correct, however suitable provision shall be provided to hook up at later stage.

		NLC INDIA LIMITED NLC TALABIRA THERMAL POWER PROJECT 3x800 MW, JHARSUGUDA, ODISHA (EPC Bidding Document)- Reply to L&T LOT 7 Queries						
Sr. No.	Section / Part / Chapter / Volume	Clause No.	Page no.	Bid Specification Stipulation	Statement of clarification sought	Owner's Reply	Statement of clarification sought_17.04.2021	Purchaser's Reply
1922	Corrigendum No.5, Point No. 1095 Page no.1002 of 1335 Query reference: Vol. II-F1/Section-I General Electrical Specification Vol. II-F2/Section-XVIII Bus/Line (Shunt) Reactor Vol. II-F3/Section-X Unit Transformers & Auxiliary Power Transformers	1.11.03	3 of 83	Tender specification: Power Transformers, Bus & Line Reactors – Generator Transformers (GTs), Bus Reactors (BRs), Station transformers (STs), Unit Transformers (UTs), Inter-Connecting Transformers (ICTs) complete with all fittings and accessories including Nitrogen Injection Fire Protection System in addition to automatic high velocity water spray system for GTs, STs, ICTs & Bus & line Reactors, ST metering and protection panels, ICT, bus/ line reactor metering and protection panels. - Bidder's query: As per referred clause, Nitrogen injection Protection system is also indicated for Line and Bus reactors, However as per Shunt reactor and Unit Transformer Tender Specification, Nitrogen injection Protection system is not specified. Bidder understands that Nitrogen Injection Protection system is not required for Shunt reactors and for Unit Transformers. Please confirm. - Owner's reply: Bidder to refer Vol-II J. Sub Section II A, Clause 3.0.00, page 3 of 141, NIFPS shall be provided in addition to HWS for GTs, STs, ICTs, IBTs, Bus reactors and line reactors. Raw water intake Transformer shall be provided with NIFPS only.	-----	-----	Bidder understands that the NIFPS is not required for Spare GT, Spare ICT and Spare Reactor. Spare transformer/reactor will be connected to NIFPS of respective faulty transformer/reactor when it is replace with such transformer/reactor. Owner may please confirm bidder's understanding.	Bidder understanding is correct

**Clarifications for EPC Tender-NLC Talabira Thermal Power Project(NTTPP) 3X800 MW
at Jharsuguda, Odisha (M/s BHEL MS-1-20-E-0007 dated 03.05.2021)**

ADDITIONAL PRE-BID QUERIES

Sl. No	Name	Pre-Bid Queries/ Clarifications	NLCIL / DCPL to reply
1.	M/s BHEL MS-1-20-E-0007 dated 03.05.2021	<u>(a) Requirement of Availability Guarantee</u> - As per the performance guarantee schedule specified in the tender documents, Bidder has to ensure minimum availability of 85%. NLCIL would appreciate that Availability of the Plant depends upon many factors and many of them are beyond the control of Bidder. Also, Operation & Maintenance is not in the scope of the bidder. Further, this requirement is new and has not been experienced for the coal fired tenders. In view of the foregoing we request NLCIL to kindly exclude the requirement of availability guarantee	Bidder to refer enclosed Corrigendum Annexure – C2N, S.No 1 to 4 in this regard.
2.	M/s BHEL MS-1-20-E-0007 dated 03.05.2021	<u>(b) Right of Way Requirements</u> -Tender specifies that the right of way has to be arranged by the Bidders. NLC being the owner of the Power Plant, we request NLCIL to kindly arrange the required right of way and exclude it from the scope of the Bidder.	It is in bidder's scope. For more details, Bidder to refer enclosed Corrigendum , reply to M/s L & T Query S.No 1884

**Clarifications for EPC Tender-NLC Talabira Thermal Power Project(NTTPP) 3X800 MW
at Jharsuguda, Odisha (M/s BHEL MS-1-20-E-0007 dated 03.05.2021)**

3.	M/s BHEL MS-1-20-E-0007 dated 03.05.2021	<u>(c) Price Schedule</u> - As per tender specification requirements, Bidder has to completely fill in the Schedule of Prices of Section A & B (Schedule– F1, Table 1 to 7 and Table 9) of Volume – IA that are very detailed. NLCIL will appreciate that it would very difficult for the Bidders to furnish the price details as sought in Tables 1.1/Table 1.2/Table 1.2.2/Table 1.2.3/Table 1.2.4/Table 1.2.5 as furnished in Corrigendum-6, and Table 2(A) to Table 2(Z) as furnished in the Tender Specifications, as these details shall be ascertained only after detailed engineering/placement of orders on sub-vendors. Further, the successful bidder shall be shortlisted based on the total quoted price only. We therefore request NLCIL not to insist for the above price break-ups at the bidding stage. However, the same shall be furnished during execution of the project for billing purposes.	Tender condition prevails.
4.	M/s BHEL MS-1-20-E-0007 dated 03.05.2021	<u>(d) Final Performance Guarantee Schedule & Price Schedule</u> - As per the requirements of the tender, Bidders are required to furnish the filled in Performance Guarantee Schedule and the Price Schedule along with the bid. Performance Guarantee Schedule and the Price Schedule has undergone major changes vide various corrigendum/amendments issued by NLCIL. Performance Guarantee Schedule and Price Schedule being critical documents, any variation w.r.t. the tender requirements may have serious impact on the bid. We therefore request NLCIL to kindly furnish the editable version of the final Performance Guarantee Schedule & final Price Schedule. Please also refer to our request vide letter dated 09.04.2021 in this regard.	Will be furnished.

Change in specification (Section B of Tender Specification) (Annexure- C2N)

Sl. No.	Bidder query Ref.	Tender spec. Reference	Description as in Specification	Description To be read as
1.	L&T letter dated 23 rd March 2021 and 1st May 2021 & BHEL letter dated 3 rd May 2021	Section B / Vol IB / Section 9 /Clause 9.4.1 Corrigendum 8/ Annexure C2L/ S.No 1	13. Availability of unit: The Bidder shall guarantee unit availability not less than 85% for each unit considering emission norms below statutory requirements for all the range of coal specified. The demonstration period and other requirements are in line with the requirements stipulated in clause 9.5.3 of this section Rate of Liquidated Damages: INR 13,17,06,587/- (Rupees Thirteen Crore Seventeen Lac Six Thousand Five Hundred and Eighty Seven Only) For every 0.1% loss in Unit availability for each unit from the guaranteed value.	DELETED
2.		Section B / Vol II A / Section X / Clause 4.1.0 Corrigendum 8/ Annexure C2L/ S.No 2	13. Availability of unit: The Bidder shall guarantee unit availability not less than 85% for each unit considering emission norms below statutory requirements for all the range of coal specified. The demonstration period and other requirements are in line with the requirements stipulated in clause 5.03.00 of this section For every 0.1% loss in Unit availability for each unit from the guaranteed value.	DELETED

Change in specification (Section B of Tender Specification) (Annexure- C2N)

Sl. No.	Bidder query Ref.	Tender spec. Reference	Description as in Specification	Description To be read as
3.		Section B / Vol IB / Section 9 /Clause 9.5.3 & Section B / Vol II A / Section X / Clause 5.03.00 Corrigendum 8/ Annexure C2L/ S.No 3	Conditions for demonstration of Availability of unit: (a) The Bidder shall guarantee unit availability not less than 85% during a continuous block of 365 days considering emission norms below statutory requirements for all the range of coal specified. The demonstration shall start after successful completion of PG test of each unit. In case the Bidder is not able to demonstrate the availability in the first block of 365 days, the test duration shall get extended till the above is achieved, subject to a maximum period of 3 years from the date of successful completion of PG test of the respective unit. In case the Bidder is not able to demonstrate the availability guarantee even after the three year period from the completion of PG test of the unit, Purchaser reserves the right to reject the unit or accept the unit after levying LD as stipulated in Clause 9.4.1 , S.No 13 / Vol IB. For the purpose of levying LD, the shortfall in performance shall be calculated based on the best availability achieved in any continuous 365 day block during the test period. However, this guarantee shall not be considered for the purpose of completion of PG test milestone for the purpose of payment and start of warranty period. Further, Bidder shall keep the Contract Performance	DELETED

Change in specification (Section B of Tender Specification) (Annexure- C2N)

Sl. No.	Bidder query Ref.	Tender spec. Reference	Description as in Specification	Description To be read as				
			Guarantee valid till the acceptance of completion of demonstration of availability guarantee of all units with or without LD. (b) In every 365 days block , Bidder to consider 1. Planned outage : 30 Days (minimum) 2. Forced outage due to causes / reasons attributable to Owner : 5 Days (minimum) With the available period from the above, bidder has to prove Unit Availability of 85%. Unit Availability (UA) = $\frac{(\text{CDC} + \text{IPG})}{\text{NGC}} \times 100\%$ NGC where, <table><tr><td>CDC - Cumulative declared capacity in MWHR (including Aux Power) in any continuous 365 days block.</td><td>= $\sum$ Actual Declared Capacity to be considered limited to 100% TMCR in MWHR for the entire test period.</td></tr><tr><td>NGC - Nominal Generation capacity (MWHR) (including Aux</td><td>= 24 X 365 X Unit TMCR Capacity in MW (800).</td></tr></table>	CDC - Cumulative declared capacity in MWHR (including Aux Power) in any continuous 365 days block.	= $\sum$ Actual Declared Capacity to be considered limited to 100% TMCR in MWHR for the entire test period.	NGC - Nominal Generation capacity (MWHR) (including Aux	= 24 X 365 X Unit TMCR Capacity in MW (800).	
CDC - Cumulative declared capacity in MWHR (including Aux Power) in any continuous 365 days block.	= $\sum$ Actual Declared Capacity to be considered limited to 100% TMCR in MWHR for the entire test period.							
NGC - Nominal Generation capacity (MWHR) (including Aux	= 24 X 365 X Unit TMCR Capacity in MW (800).							

Change in specification (Section B of Tender Specification) (Annexure- C2N)

Sl. No.	Bidder query Ref.	Tender spec. Reference	Description as in Specification		Description To be read as
			Power)		
			IPG = Idle period Generation (including Aux Power) of Unit (in MWHr) due to Idle period (IP), for which reasons not attributable to the Bidder. (Other than specified in S.No: 1 & 2)	= $\sum IP (HRS) \times Capacity$ in MW	
			(c) The unit shall be operated as per the procedure laid out in the O&M manual of the Bidder /OEM. (d) The Bidder shall depute required O&M experts for guidance of Purchasers personnel and supervision till completion of the Availability Guarantee. (e) Any time taken by the Bidder for attending to the defects, only that would have warranted shutdown of the unit shall not be considered as Idle Period Generation. (f) All the time period of Non availability shall be computed on bar to bar basis (From Desynchronizing for shut down to re synchronizing after shut down). (g) The time periods of non availability and short fall in DC shall be reviewed jointly by the Purchaser/Consultant and the Bidder on regular basis and the above such periods		

Change in specification (Section B of Tender Specification) (Annexure- C2N)

Sl. No.	Bidder query Ref.	Tender spec. Reference	Description as in Specification	Description To be read as
			shall be noted accordingly. (h) The availability of each 800 MW unit shall be worked out separately and LD shall be levied accordingly. (i) In case of dispute in reckoning the period of short fall the Purchaser's verdict shall be final and binding.	
4.		Vol IA/ Sch:F1 / PG Schedule (Section B) / Table 8 Corrigendum 8/ Annexure C2L/ S.No 4	13. Availability of unit: The Bidder shall guarantee unit availability not less than 85% for each unit considering emission norms below statutory requirements for all the range of coal specified. The demonstration period and other requirements are in line with the requirements stipulated in clause 9.5.3 of Section – 9, Volume - IB	DELETED
5.	L&T letter dated 19 th March 2021	Vol. I-A/Section-3 / Cl 3.25 , xi), C (3) , S.No 3 Vol IA/ Sch:F1 / PG Schedule (Section B) / Table 8 / Section A/ S.No 3 Section B / Vol. I- B/Section-9/ Clause 9.4.1, S.No 3	Unit Heat Rate at 55% TMCR Load: Unit Heat Rate in kcal/kWh under turbine throttle main steam pressure of 155 kgf/cm² (abs) and rated Main Steam and Reheat Steam temperature, at 77 mmHg(abs) condenser pressure with zero make up at 55% TMCR load with One TDBFP in operation and design Coal firing....	Unit Heat Rate at 55% TMCR Load: Unit Heat Rate in kcal/kWh under turbine throttle main steam pressure of 155 kgf/cm² (abs) and rated Main Steam and Reheat Steam temperature, at 70 mmHg(abs) condenser pressure with zero make up at 55% TMCR load with One TDBFP in operation and design Coal firing....

Change in specification (Section B of Tender Specification) (Annexure- C2N)

Sl. No.	Bidder query Ref.	Tender spec. Reference	Description as in Specification	Description To be read as
		Section B / Vol. II- A/Section-X/ Clause 4.01.00, S.No 3 Corrigendum 8/ Annexure C2B/ S.No 8	Limiting Value 55% TMCR Load: a) The quoted value shall not exceed 2199 kCal/kWhr. Bids with higher value shall not be accepted. b) No evaluation credit shall be given for Unit Heat Rate lower than 2161 kCal/kWhr.	Limiting Value 55% TMCR Load: a) The quoted value shall not exceed 2215 kCal/kWhr. Bids with higher value shall not be accepted. b) No evaluation credit shall be given for Unit Heat Rate lower than 2177 kCal/kWhr.
6.	L&T letter dated 19 th March 2021	Section B / Vol. I- B/Section-9/ Clause 9.6.1 (v) Section B / Vol. II- A/Section-X/ Clause 6.01.00, (v) Corrigendum 8/ Annexure C2B/ S.No 9	THR (55%): Turbine Cycle Heat rate in kcal/kWhr under turbine throttle main steam pressure of 155 kgf/cm ² (abs) and turbine throttle main steam temperature /reheat steam temp. at turbine inlet of 600 deg C / 600 deg C at 77 mmHg (abs) condenser pressure with zero make up at 440 MW unit load (i.e. 55 % of rated load) with One TDBFP in operation.	THR (55%): Turbine Cycle Heat rate in kcal/kWhr under turbine throttle main steam pressure of 155 kgf/cm ² (abs) and turbine throttle main steam temperature /reheat steam temp. at turbine inlet of 600 deg C / 600 deg C at 70 mmHg (abs) condenser pressure with zero make up at 440 MW unit load (i.e. 55 % of rated load) with One TDBFP in operation.
7.	L&T letter dated 19 th March 2021	II A / Section-X/4.03.48 / Page 35 of 65 IB / Section-9 / 9.4.3.48	4.03.48 Unit Auxiliary Power Consumption at 55 % TMCR The total auxiliary power consumption for all the auxiliaries of a single unit required for continuous unit operation at 55% TMCR load under turbine throttle main steam pressure of 155 kgf/cm ²	4.03.48 Unit Auxiliary Power Consumption at 55 % TMCR The total auxiliary power consumption for all the auxiliaries of a single unit required for

Change in specification (Section B of Tender Specification) (Annexure- C2N)

Sl. No.	Bidder query Ref.	Tender spec. Reference	Description as in Specification	Description To be read as
		/ Page 113 of 310 I A/ Schedule F1/ Table 8 / Section C / S.No 47 /page 558 of 574 Corrigendum 8/ Annexure C2B/ S.No 2,3 & 4	(abs) and rated Main Steam and Reheat Steam temperature, at 77 mmHg(abs) condenser pressure with zero make up and design coal shall be guaranteed	continuous unit operation at 55% TMCR load under turbine throttle main steam pressure of 155 kgf/cm2 (abs) and rated Main Steam and Reheat Steam temperature, at 70 mmHg(abs) condenser pressure with zero make up and design coal shall be guaranteed
8.	L&T letter dated 19 th March 2021	II A / Section-X/5.01.00 / Table , S.No 37 / Page 39 of 65 IB / Section-9 / 9.5.1/ Table , S.No 37 / Page 117of 310 Corrigendum 8/ Annexure C2B/ S.No 7	Induced Draft Cooling Towers: 55% TMCR No. of operating equipment to be considered : No. of fans as required to maintain 77 mm Hg (abs) condenser pressure.	Induced Draft Cooling Towers: 55% TMCR No. of operating equipment to be considered : No. of fans as required to maintain 70 mm Hg (abs) condenser pressure.
9.	L&T letter dated 19 th March	Section B / Vol. II-C/ Section-I / Clause 11.01.02 b)	55% TMCR output under turbine throttle main steam pressure of 155 kgf/cm2 (abs) and rated Main Steam and Reheat Steam temperature at 77 mm Hg (abs) condenser pressure with zero make-up (guaranteed heat rate condition)	55% TMCR output under turbine throttle main steam pressure of 155 kgf/cm2 (abs) and rated Main Steam and Reheat Steam temperature at 70 mm Hg (abs) condenser pressure with zero

Change in specification (Section B of Tender Specification) (Annexure- C2N)

Sl. No.	Bidder query Ref.	Tender spec. Reference	Description as in Specification	Description To be read as
	2021	Vol: III-B/Sch: III-B/6 , 1.06.00 A (2) & 1.06.00 B , Note (2) Corrigendum 8/ Annexure C2B/ S.No 14		make-up (guaranteed heat rate condition)
10.	L&T letter dated 19 th March 2021	Vol: III-B/Sch: III-B/6 , 1.06.00 B , Note (2) Corrigendum 8/ Annexure C2B/ S.No 15	440 MW output under turbine throttle inlet steam condition corresponding throttle steam pressure of 155 Kg/cm2 (abs) and rated steam temperature at condenser pressure of 77 mm Hg (abs) and 0% makeup	440 MW output under turbine throttle inlet steam condition corresponding throttle steam pressure of 155 Kg/cm2 (abs) and rated steam temperature at condenser pressure of 70 mm Hg (abs) and 0% makeup
11.	L&T/Lot-7/ S.No. 1912	Vol. II-F1/Section-I General Electrical Specification, 1.11.09, Page 4 of 83 Vol. II-F1/Section-I General Electrical Specification, 4.27.13, Page 38 of 83 Vol. II-F2/Section-II L.T. Transformers, 4.02.02, Page 4 of 15	Transformers shall be Naturally Cooled (AN) vacuum pressure impregnated dry type and located indoors. The service transformers shall be of dry type with coils resin impregnated under vacuum and pressure (VPI) type and AN cooling. The coils shall be manufactured from electrolytic copper conductor and fully insulated for rated voltage. Coils shall be resin impregnated under vacuum and pressure (VPI) type.	Transformers shall be Naturally Cooled (AN) vacuum pressure impregnated (or) Cast Resin Encapsulated dry type and located indoors. The service transformers shall be of dry type with coils resin impregnated under vacuum and pressure (VPI) type (or) Cast Resin Encapsulated and AN cooling. The coils shall be manufactured from electrolytic copper conductor and fully insulated for rated voltage. Coils shall be resin impregnated under vacuum and pressure (VPI) type (or) Cast Resin

Change in specification (Section B of Tender Specification) (Annexure- C2N)

Sl. No.	Bidder query Ref.	Tender spec. Reference	Description as in Specification	Description To be read as
				Encapsulated.
12.	L&T/Lot-7/S.No. 1916	Vol. II-F1/Section-IV Generator Bus Duct, 2.6 b, Page 17 of 23	Material b. Bus enclosure : Aluminum alloy Grade 63401 (56.5% IACS) IACS: International Annealed Copper Standard	b) Bus enclosure : Aluminum alloy Grade 63401 (56.5% IACS) / Al-Alloy Gr. 19501 (60% IACS)
13.	L&T/Lot-7/S.No. 1917	Vol. II-F2/Section-XIX 415V Non Segregated Phase Busduct, 2.01.00, Page 6 of 11	2.01.00 Routine Tests: Busduct shall be subjected to the following tests: a) Visual inspection and verification of dimensions b) Dry power frequency voltage withstand test for 1-min c) Insulation resistance measurement d) Mili-volt drop test e) Water tightness test	2.01.00 Routine Tests: Busduct shall be subjected to the following tests: a) Visual inspection and verification of dimensions b) Dry power frequency voltage withstand test for 1-min c) Insulation resistance measurement d) Mili-volt drop test 2.02.00 Type Test (to be conducted in case of non-availability of valid Test certificates)..... d) Degree of protection test
14.	L&T/Lot-7/S.No. 1905	Vol. II-IB/2/Section-IV Chlorination Plant &	Salient Design Features - Circulating Water Chlorination System Capacity of ClO2 generator: Minimum 155 kg/hr. (2W + 1S)	Salient Design Features - Circulating Water Chlorination System

Change in specification (Section B of Tender Specification) (Annexure- C2N)

Sl. No.	Bidder query Ref.	Tender spec. Reference	Description as in Specification	Description To be read as
		CW Conditioning. Clause no: 4.02.03 (Page no.7 of 29)		Total minimum Capacity of ClO2 generator system : 155 kg/hr , (2W + 1S)
		Clause no: 3.01.08 (Page no.2 of 29)	2x100% Chlorine-Di-Oxide (ClO2) generator system each for RW / PW system and 3x50% Chlorine-Di-Oxide (ClO2) generator system for CW system.	2x100% Chlorine-Di-Oxide (ClO2) generator system each for RW / PW system and 3x50% Chlorine-Di-Oxide (ClO2) generator system for CW system.
15.	L&T/Lot-7/ S.No. 1910	Vol. II-J/Section-II/Sub Section-II-A, Fire Detection & Protection System. Clause no:3.01.05, iii) Page no: 10 of 141	<u>Clean Agent flooding system:</u> One centralized total flooding type inert gas (IG100 and IG 541) extinguishing system shall be provided for the following areas as a protection for fire damage. i) Main Control rooms, Control equipment room including above false ceiling and inside rooms voids. ii) Electrical and electronic equipment rooms UPS, UPS charging	<u>Clean Agent flooding system:</u> One centralized total flooding type inert gas (IG100 and IG 541) extinguishing system shall be provided for the following areas as a protection for fire damage. i) Main Control rooms, Control equipment room including above false ceiling and inside rooms voids.

Change in specification (Section B of Tender Specification) (Annexure- C2N)

Sl. No.	Bidder query Ref.	Tender spec. Reference	Description as in Specification	Description To be read as
			room and Battery room including above false ceiling and inside rooms voids. iii) Control Rooms of FGD & SCR (if applicable).	ii) Electrical and electronic equipment rooms UPS, UPS charging room and Battery room including above false ceiling and inside rooms voids. iii) Deleted.
16.	L&T Lot -7 / S.No 1885	Vol. II-G1/Section-I General clause 4.23.10 Ash Dyke	General Ash dyke shall be planned in the plot of land shown in the General Layout Plan for dumping of un-utilized fly ash and bottom ash. Technical specifications related to the design and construction of ash dyke elements are given under this section. The specification for reinforced concrete works for spillways and water escape wells etc. shall be as given elsewhere in the specification. Ash dyke shall be constructed by optimized cutting/filling required to build up storage capacity as indicated in Mechanical volume.	General Ash dyke shall be planned in the plot of land shown in the General Layout Plan for dumping of un-utilized fly ash and bottom ash. Technical specifications related to the design and construction of ash dyke elements are given under this section. The specification for reinforced concrete works for spillways and water escape wells etc. shall be as given Elsewhere in the specification. Ash dyke shall be constructed by optimized cutting/filling required to build up ash dyke including bund formation, inspection road, Toe drain and Garlanding of ash pipes in the identified/ acquired area of 175 acres. Out of the 175 acres, the base area of Ash dyke shall be considered as 150 acres. For any change (i.e.) increase / decrease over the base area of 150 acre in Ash dyke, an amount will be

Change in specification (Section B of Tender Specification) (Annexure- C2N)

Sl. No.	Bidder query Ref.	Tender spec. Reference	Description as in Specification	Description To be read as
				paid extra / recovered as the case may be as per Table Volume -1A, section –B Table 9, Sl.no 4. Base area of Ash dyke: Bund outer edge to the outer edge on the diagonally opposite sides shall be reckoned as Ash dyke base area for the purpose of calculation.

VOLUME: I-A

SCHEDULE: F1

TABLE 9

SCHEDULE OF UNIT RATES

The Unit Rates of various items are given as under. We confirm that the prices of these items as per the requirement of Technical Specifications are already included in the lump-sum prices quoted in Schedule- F1 Table 1 and price break up quoted in Tables 2 (A) to (Z). We further confirm that these unit rates shall be used for contract price adjustment on account of quantity variation.

Further, We hereby confirm that the unit rates quoted by us below are consistent with the lumpsum bid price and that we shall furnish all necessary justification to establish the reasonableness of these rates/prices, if required by the Purchaser. However, we clearly understand that the acceptance of our proposal for the subject package shall not mean automatic acceptance of these rates/prices and that these rates/ prices shall be adopted only if their reasonableness has been established by us and accepted by the Purchaser.

S. No	Item	Unit	Ex-Works Price	Local transportation including port clearance & port charges and inland insurance	*Installation services
1	Unit rate per running meter addition/deletion of Raw water intake pipe and associated 33kV Power & FO cable: Supplying, Installation and Commissioning including all Civil, Mechanical and Electrical works (for variation from the base quantity specified in Volume II-I B / I Clause 2.0)				
	a. Pipes Below ground.	m			
	b. Pipes above ground including R.C.C pedestals and foundations etc.	m			
	c. Nil	m			
	d. 33KV Power cable & Fiber Optic cable with accessories and its associated electricals, Civil works.	km			
	e. RCC Box Culvert Single / Multi vent off all sizes.	m			
	f. Bridges in water body with RCC Foundation, column and Steel Gantry to support the RW pipe line as per	m			

	Civil specification				
2	RM cost for Bridges in Bhedan river (RCC open / pile Foundation & Piers and super structure) as per System requirement. For variation from the base quantity of 225 m for one bridge.	m			
3	RM cost for Nallah bund strengthening along Ash pond as per System requirement. For variation from the base length of 1000 m .	m			
4	Unit rate per Acre increase / decrease of Ash dyke base area (Base area of Ash dyke: Bund outer edge to the outer edge on the diagonally opposite sides shall be reckoned as Ash dyke base area for the purpose of calculation) for all Civil works like bund formation, lining, earth work, road , drain etc (all civil scope inclusive) , (for variation from the base quantity 150 acres)	Acre			

@ Bidder shall quote the price on Ex-works basis in line with the prices quoted in Table 1 / Tables 2 (A) to (Z).

- Bidder shall indicate applicable unit rates in Table 9A also

Note (For Raw water intake pipe line):

Scope includes all activity included in the detailed specification and the entire works required for the completion of the system.

Bidder shall visit the project site to collect all relevant inputs as needed prior to submission of Bids. Additional scope of work due to ignorance of site conditions will not entitle additional payment.

Signature :
Name :
Designation :
Company :

Company Seal

Date :

