Corrigendum 1 Dated 29/07/2024 CPC Tender No. BHEL/CPC/TLB/ENB/25/022

Work Description: DESIGN, MANUFACTURING, SUPPLY, RECEIPT AT SITE, ERECTION, PAINTING & FINISHING WORKS ETC. AND HANDING OVER TO SITE REMOVABLE/ RE-ERECTABLE TYPE PRE-ENGINEERED, PRE- FABRICATED STEEL CLOSED STORAGE SHEDS (6 NOS.), STORE-IN-CHARGE ROOM (2 NOS), OFFICE BUILDINGS (2 NOS.), & SAFETY PARK (1NOS.) INCLUDING CIVIL & ARCHITECTURAL WORKS COMPLETE IN ALL RESPECT AND HANDING OVER OF COMPLETE INFRASTRUCTURE FOR 3 X 800 MW NLC TALABIRA THERMAL POWER PROJECT, JHARSUGUDA, ODISHA, INDIA (PACKAGE- A: IMMOVABLE MATERIAL)

A) Some of the Bidders sought clarifications in regard to the published tender specification. The clarifications issued by BHEL are as below:

Sr. No.	Reference Page/Clause No	Bidders Query	Description in Existing TCC	BHEL's Reply
1	NIT Clause 1 (vii)	Request for EMD Exemption.	EMD Amount 5,00,000/-	Tender Condition shall Prevails
2	TCC Clause 2.1	In steel storage shed - 6 nos, how many Steel rack used and what will be the size? Please Explain.	A. Design, Manufacturing, Supply, Receipt at Site, Erection, Painting etc. and Handing over of Removable/Re- erectable type Pre-Engineered, Pre- fabricated Steel Closed Storage Sheds-6 Nos. with side racks for storage purpose etc. including execution of civil foundation. This also includes guarantee for 12 months of operations for the design performance, materials supplied & erection works	Tender conditions prevail. Side rack inside storage sheds shall be provided as per clause no. 2.1.10.3 of TCC
3	TCC Clause 2.2	Area for 1 no. Office 788 sqm and 1 no. Office 400 sqm + Common Toilet Block (2 nos.) area 69.02 sqm + EWC + WB (2.5m x 3.045m) (04 nos.) area 30.44 sqm + Portico (3m x 4m) (03 nos.) area 36 sqm + Septic Tank area 36 sqm (approx.) + water stand area 17.88 sqm, Total development Area is 1377.34 sqm and Drainage area Extra?	C. Design, Manufacturing, Supply, Receipt at Site, Erection & Finishing works etc. and Handing over to site Removable/ Re-erectable type Pre- Engineered, Pre- fabricated Office buildings- 2 nos. (1 no office with area 788 sqm and 1 no office with area 400 sqm) as per the technical specification. This also includes guarantee for 12 months of	Tender Condition shall Prevails

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			1	CPC TETIUET NO. BREL/CPC/TLB/ENB/23/022
			Plinth Beam Base. 3. Internal Wall	septic tank and soak pit as per
			Foundations. 4. In the Base of Soak Pit	requirement.
			Slab.	
7	TCC Clause 2.3	Area of Safety Park 250 sqm + 2m Wide	D. Design, Manufacturing, Supply,	Tender Condition shall prevail.
		Verandah Area 65.1 sqm and Other	Receipt at Site, Erection & Finishing	Safety Park with 2 m wide verandah and
		open area Development is in contractor	works etc. and Handing over to site	the vertigo test structure along with
		Scope?	Removable/ Re-erectable type Pre-	associated civil works is in the scope of
			Engineered, Pre- fabricated Safety	bidder.
			Park– 1 nos. approximate area 250	
			sqm at project Site including supply	
			and installation of vertigo test	
			structure. This also includes guarantee	
			for 12 months of operations for the	
			design performance, materials	
			supplied & erection works and	
			workmanship for Civil construction	
8	NA	If possible please provide the contour	NA	Contour Plan drawing no -
		survey report for Plot Leveling?		008/SUR/TALA/II &III 2019 dtd.
				1/07/2019 is enclosed with this
				corrigendum for reference.
				Office location indicated in the plot plan
				is only tentative and the final location
				will be decided after award of work.
9	TCC Clause	Labour Colony is necessary for	Open space for labour colony,	Tender Condition Shall Prevails as per
	3.1.2.a	contractor?	Contractor has to make his own	clause no 3.9.1
			arrangements for shelter and	
			transportation of labours requirement.	
10	TCC Clause 2.1	Explain about RCC Drainage System for	A. Design, Manufacturing, Supply,	TCC Clause no 2.1 modified as
		storage shed, Like size, length of	Receipt at Site, Erection, Painting etc.	mentioned below: -
		Drainage and how for from main	and Handing over of Removable/Re-	
		drainage line?	erectable type Pre-Engineered, Pre-	A. Design, Manufacturing, Supply,
			fabricated Steel Closed Storage	Receipt at Site, Erection, Painting etc.
			Sheds-6 Nos. with side racks for	and Handing over of Removable/Re-
			storage purpose etc. including	erectable type Pre-Engineered, Pre-

			execution of civil foundation. This also includes guarantee for 12 months of operations for the design performance, materials supplied & erection works	fabricated Steel Closed Storage Sheds-6 Nos. with side racks for storage purpose etc. including execution of civil foundation. This also includes guarantee for 12 months of operations for the design performance, materials supplied & erection works. Note:- Interconnecting drain (upto 5mtr length) between closed storage shed and garland drain shall be in the bidder's scope
11	TCC Clause 2.1.12.2	Steel Store in charge Room, wall system Thickness of PUF 50 or 60 MM, top of paragraph 50 mm and at bottom of same paragraph 60 mm ?	Store in charge room shall be of 50 mm Thick PUF insulated sandwich panels. These panels are made out of 0.47mm thick colour coated G.I. Sheet as exterior on both sides with PU Foam of density 38 Kg/CuM and tensile strength of 4 Kg/Sq.CM inside, Compressive strength (10 % deformation) of 2.1 Kg/Sq.CM, Thermal conductivity at 10 Deg 0.02 W/M Deg k Temperature Range - 80 Deg C to + 100 Deg C The PU Foam thickness is 60 mm.	TCC Clause no 2.1.12.2 modified as mentioned below: Store in charge room shall be of 50 mm Thick PUF insulated sandwich panels. These panels are made out of 0.47mm thick colour coated G.I. Sheet as exterior on both sides with PU Foam of density 38 Kg/CuM and tensile strength of 4 Kg/Sq.CM inside, Compressive strength (10 % deformation) of 2.1 Kg/Sq.CM, Thermal conductivity at 10 Deg 0.02 W/M Deg k Temperature Range - 80 Deg C to + 100 Deg C The PU Foam thickness is 50 mm."
12	TCC Clause 2.2	Explain about RCC Drainage System for office shed, Like size, length of Drainage and how for from main drainage line?	C. Design, Manufacturing, Supply, Receipt at Site, Erection & Finishing works etc. and Handing over to site Removable/ Re-erectable type Pre- Engineered, Pre- fabricated Office buildings- 2 nos. (1 no office with area 788 sqm and 1 no office with area 400 sqm) as per the technical	TCC Clause no 2.2 modified as mentioned below: C. Design, Manufacturing, Supply, Receipt at Site, Erection & Finishing works etc. and Handing over to site Removable/ Re-erectable type Pre-Engineered, Pre- fabricated Office

specification. This also includes guarantee for 12 months of operations for the design performance, materials supplied & erection works and workmanship for Civil construction Titis also includes guarantee for 12 months of perations for the design performance, materials supplied & erection works and workmanship for Civil construction Toc Clause 2.2.29 Is ½ HP pump to store water in Overhead tank sufficient for 10,000 lts. and Explain about Boring for Water? Any Pump room reqiured? A separate structure shall be provided with steel sections to support 3 nos. 2000 litre water tank for 788 sqm area office and 2 nos. 2000 litre water tank for 780 sqm area office and 2 nos. 2000 litre water tank for 400 sqm area office and 2 nos. 2000 litre water tank for 400 sqm area office and 2 nos. 2000 litre water tank for 400 sqm area office and 2 nos. 2000 litre water tank for 400 sqm area office and 2 nos. 2000 litre water tank for 88 sqm area office and 2 nos. 2000 litre water					, , , , ,
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BHEL Engineer including inlet connection to Water Tank from the Existing nearby water supply line and further Distribution of water from the Water Tank to the Office Toilets, Pantry etc. using the GI / PVC Pipes of approved specifications and make, laying on surface/ recessed is also to supply ½ HP pump to store water in legs of structure shall be suitably anchored to the ground. Supply and Fixing of Water Tank as approved by BHEL Engineer including inlet connection to Water Tank from the Existing nearby water supply line and further Distribution of water from the Water Tank to the Office Toilets, Pantry etc. using the GI / PVC Pipes of approved specifications and make,				anchored to the ground. Supply and	specification to withstand the water
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approved specifications and make, laying on surface/ recessed is also included in contractor's scope. Bidder to supply ½ HP pump to store water in further Distribution of water from the Water Tank to the Office Toilets, Pantry etc. using the GI / PVC Pipes of approved specifications and make,				Water Tank to the Office Toilets,	connection to Water Tank from the
laying on surface/ recessed is also water Tank to the Office Toilets, Pantry included in contractor's scope. Bidder to supply ½ HP pump to store water in approved specifications and make,				Pantry etc. using the GI / PVC Pipes of	Existing nearby water supply line and
included in contractor's scope. Bidder etc. using the GI / PVC Pipes of approved specifications and make,				approved specifications and make,	further Distribution of water from the
to supply ½ HP pump to store water in approved specifications and make,				laying on surface/ recessed is also	Water Tank to the Office Toilets, Pantry
				included in contractor's scope. Bidder	etc. using the GI / PVC Pipes of
Overhead tank. laying on surface/ recessed is also				to supply ½ HP pump to store water in	approved specifications and make,
				Overhead tank.	laying on surface/ recessed is also

				included in contractor's scope. Note:- Separate steel structures to support the water tanks for each Office building shall be provided by bidder. Bidder to supply 1 HP pump to store water for each Office. Also, horizontal Pump/s to be installed by the bidder having capacity to pump from the single point water source at a distance of 100 mtr from storage Tank Location and to create minimum head of 7 m.
14	TCC Clause 2.2.18	In steel structure for roofing using the Truss, is Truss is necessary of Rafter will be used?	ROOF: Roof truss should be made up of anti- corrosive / enamel painted (as per IS:2932) 40mm square tubular section designed to suit roof structure with 0.47mm thick pre-coated profiled GI (i.e., PPGI) roof sheet fixed with fasteners/self-tapping screws including ridge covers, flashing, gutters, rainwater down pipes / spouts etc. all complete.	TCC Clause no 2.2.18 modified as mentioned below: Roof truss should be made up of anticorrosive / enamel painted (as per IS:2932) 40mm square tubular section designed to suit roof structure with 0.47mm thick pre-coated profiled GI (i.e., PPGI) roof sheet fixed with fasteners/self-tapping screws including ridge covers, flashing, gutters, rainwater down pipes / spouts etc. all complete. Roof structure can be supported on Roof truss or on rafter as per the approved design.
15	TCC Clause 2.3.25	Explain about Boring & Pump Size or any Pump Room required?	A separate structure shall be provided with steel sections to support 1 no. 2000 litre water tank at a minimum height of 4m. The structure shall be designed with steel as per standard IS specification to withstand the water tank load and wind load in full & the	TCC Clause no 2.3.25 modified as mentioned below: A separate structure shall be provided with steel sections to support 3 nos. 2000 litre water tank for 788 sqm area office and 2 nos. 2000 litre water tank

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			legs of structure shall be suitably	for 400 sqm area office at a minimum
			anchored to the ground. Supply and	height of 4m. The structure shall be
			Fixing of Water Tank as approved by	designed with steel as per standard IS
			BHEL Engineer including inlet	specification to withstand the water
			connection to Water Tank from the	tank load and wind load in full & the
			Existing nearby water supply line and	legs of structure shall be suitably
			further Distribution of water from the	anchored to the ground. Supply and
			Water Tank to the Toilets, Pantry etc.	Fixing of Water Tank as approved by
			using the GI / PVC Pipes of approved	BHEL Engineer including inlet
			specifications and make, laying on	connection to Water Tank from the
			surface/ recessed is also included in	Existing nearby water supply line and
			contractor's scope. Bidder to supply ½	further Distribution of water from the
			HP pump to store water in Overhead	Water Tank to the Office Toilets, Pantry
			tank.	etc. using the GI / PVC Pipes of
				approved specifications and make,
				laying on surface/ recessed is also
				included in contractor's scope.
				Note:-
				Separate steel structures to support
				the water tanks for each Office
				building shall be provided by bidder.
				Bidder to supply 1 HP pump to store
				water for each Office. Also, horizontal
				Pump/s to be installed by the bidder
				having capacity to pump from the
				single point water source at a distance
				of 100 mtr from storage Tank Location
				and to create minimum head of 7 m.
16	TCC Clause 2.3	Explain about RCC Drainage System for	D. Design, Manufacturing, Supply,	TCC Clause no 2.3 modified as
		Safety Park, Like size, length of Drainage	Receipt at Site, Erection & Finishing	mentioned below:
		and how for from main drainage line?	works etc. and Handing over to site	D. Design, Manufacturing, Supply,
			Removable/ Re-erectable type Pre-	Receipt at Site, Erection & Finishing
			Engineered, Pre- fabricated Safety	works etc. and Handing over to site
			Park– 1 nos. approximate area 250	Removable/ Re-erectable type Pre-

sagm at project Site including supply and installation of vertige best structure. This also includes guarantee for 12 months of operations for the design performance, materials supplied & erection works and workmanship for Civil construction works and workmanship for Civil construction works and workmanship for Civil construction. TCC Clause 4.7 NA Heavy equipment will be tracked with real-time position location for fleet management. Deployment vs planned reports shall be generated. Equipment condition monitoring all like service meter reading, operation maps, loading, fuel levels, operating information, idlet time etc. shall be captured through integrated online project monitoring system. All T&Ps and Equipment deployed by contractor will also be covered/ monitored through this system. Accordingly, minimum 5 signals per equipment should be made available to provide the input to integrated online project monitoring system. All caps and Equipment should be made available to provide the input to integrated online project monitoring system. Necessary software/ hardware for aforesaid system shall be provided by BHEL		1	1		CPC TEHLUET NO. BHEL/CPC/TLB/ENB/23/022
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				system shall be provided by BHEL	

Note:

- 1) All other terms and conditions against this NIT shall remain unchanged.
- 2) This corrigendum is to be submitted duly signed and stamped along with the Techno-commercial bid (Part- I).

for BHARAT HEAVY ELECTRICALS LTD
Manager/ SCT- CPC

