

Corrigendum - 02 dated 20/12/2024 to CPC Tender No. BHEL/CPC/TLB/COMPOUND WALL/25/056

Name of Work: Civil, Architectural and Structural works of Compound Wall for complete plant (except Piling), Levelling and Grading work along compound wall and other area related to open storage yard and closed sheds at 3 x 800 MW NLC TALABIRA TPP (NTTPP), Jharsuguda, Odisha, India.

A) Time Extension: Clause No. 1.0 Salient Features of NIT in NOTICE INVITING TENDER is revised as below:

Sl. No.	Clause No.	Existing in Tender	Extended vide Corrigendum- 01	Revised As
1	Sl. No. v) DUE DATE & TIME OF OFFER SUBMISSION.	Date: 17/12/2024, Time: 10:00 Hrs	Date: 20/12/2024, Time: 10:00 Hrs	Date: 23/12/2024, Time: 10:00 Hrs
2	Sl. No. vi) OPENING OF TENDER	Date: 17/12/2024, Time: 16:30 Hrs	Date: 20/12/2024, Time: 16:30 Hrs	Date: 23/12/2024, Time: 16:30 Hrs

B) Revised BOQ Cum Rate Schedule -R 2 – Enclosed herewith.

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

Sl. No.	Reference Tender Document	Reference clause / ST No.	Existing provision	Bidder's query	BHEL's Clarification
1	BOQ	A213	Engineering, Design, and drawing of Prestressed precast boundary wall as per specification and general arrangement (GA) of boundary wall furnished by BHEL, submission of design calculations and drawings, incorporation of comments in submitted drawings/calculations to finally obtain approved design calculations/drawings for construction at the site. The preliminary general arrangement of the boundary wall is enclosed along with the tender document for information only. Actual general arrangement shall be furnished to the successful bidder during detail engineering and no extra claim by the bidder shall be entertained on account of variation between actual GA & GA furnished with tender.	The drawing is not enclosed along with the tender documents. Please provide.	The preliminary G.A. drawing of the Compound Wall is attached with the Section-C sent along with the B.O.Q. Refer to pages No. 136 & 137 of Section-C for the same.

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2	BOQ	C213	Providing and laying factory-manufactured Precast Reinforced concrete wall panels, copings, architectural features, etc. as per approved design and drawing submitted by bidder with design Mix cement concrete of grade M30 as per IS:456 & IS 10262-2009 using graded aggregate for Concrete in precast boundary-wall works. The work shall include the cost of strands/ reinforcement, formwork/moulds, provision of suitable grooves/key for interlocking of panels after erection, curing, rendering the top exposed surface with cement sand mortar (1:3), handling, storing, transporting for all leads, erection with required T&P without damage, setting in position with cement sand mortar (1:3), filling the gaps with cement sand mortar (1:3), etc all complete with graded aggregate (20/12.5/10 mm) and as per specification and drawing. The bidder has to manufacture precast items at the factory and transport to the site & store at the identified location. The cost of transportation from factory to site etc. is included in this item. ALL MATERIALS TO B	The Wall panels & copings are Precast or Prestressed Precast? Please confirm.	Only Columns shall be prestressed precast Concrete. Wall panels and Copings shall be Precast concrete.
3	BOQ	A1002	Providing brickwork in <u>cement mortar 1:5 (1 cement 6 coarse sand)</u> in walls, chambers, etc. in thickness 230mm at all heights, places, and positions above the plinth including raking out joints, curing, scaffolding, etc complete excluding plastering and painting.	What is the correct Ratio of Cement Mortar? Please confirm	The cement mortar shall be 1:5 (1 Cement 5 Coarse Sand) Refer to Revised BOQ cum Rate Schedule - R2
		a	Using fly ash lime bricks confirming to IS 12894 with a crushing strength of 75 kg/cm2(including the cost of cement for brick making)		
		c	Using burnt clay bricks of class designation 7.5 of nominal dimension		
4	BOQ	605	Supplying and installation of commercial quality of expanded <u>polystyrene products</u> from reliable manufacturers as approved by the Engineer, as filler material in joints including nailing, installation as per manufacturer's recommendation, etc. all complete.	Please Provide Density of Polystyrene	Refer to Revised BOQ cum Rate Schedule - R2
		d	50 mm wide joints		

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5	BOQ	2009	Supply, fabrication, and installing in position and testing galvanized MS Gates out of channels, joists, angles, flats, plates, pipes, welded steel wire mesh & sheets including stiffeners, bracings, fabricated hinges, MS Aldrops with locking arrangement, tempered steel pivot, guide track of MS Tee, bronze aluminium ball bearing arrangements, castor wheels, paintings, etc. all complete.	Is it a Galvanized gate or a normal MS gate with painting? Please confirm.	Refer to Revised BOQ cum Rate Schedule - R2
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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
Dy Manager / SCT- CPC

BOQ CUM RATE SCHEDULE - R2- TALABIRA COMPOUND WALL						
% WEIGHTAGE FOR AMOUNT OF INDIVIDUAL ITEMS W.R.T. THE TOTAL PACKAGE VALUE						
NAME OF WORK:-Civil, Architectural and Structural works of Compound Wall for complete plant (except Piling) , Levelling and Grading work along compound wall and other area related to open storage yard and closed sheds at 3 x 800 MW NLC TALABIRA TPP (NTTTP), Jharsuguda, Odisha, INDIA						
ST NO	Item Description	UNIT	QUANTITY	RATES (INR)= VALUE FOR PACKAGE-A * WEIGHTAGE /(QUANTITY*100) (ROUNDED OFF TO TWO PLACES AFER DECIMAL)	AMOUNT (INR) TOTAL QUOTED= PRICE * QUANTITY	WEIGHTAGE (IN PERCENTAGE)
100	EARTH WORK: Earth work In excavation, backfilling and disposal including all labour, equipments etc complete as per specification, drawing and as directed by engineer- in-charge for the following.					
101	Earth work in excavation in all types of soil including ash which can be excavated by any means including setting out, levelling, dewatering (but excluding special type of dewatering viz. well point method), dressing the sides & bottom, all lifts, ramming/compacting the excavated bottom, stacking, disposal of surplus excavated materials within a lead upto 1Km, spreading/levelling of disposed materials etc all complete for following depths below ground level.					
a	Depth from ground level but not exceeding 2 m	CUM	16,000.00			0.277713166%
b	Depth exceeding 2 m but not exceeding 4 m	CUM	5,500.00			0.119581097%
A107	Earthwork in Back filling upto any depth below ground level around foundations, plinths, trenches, drains etc to proper grade and level in layers not exceeding 300 mm thickness using/with selected materials from compulsorily excavated earth available within a lead upto 1 Km and compacted as specified including re-excavation of stacked earth, watering, ramming/compaction by manual/mechanical means, dressing etc all complete.for the following.					
a	at least 90% maximum dry density as per IS-2720 (Part-VII)	CUM	18,700.00			0.314327454%
109	Extra over ST No. 101 and 103 to A108 for carriage of material/earth for every 500m or part thereof beyond an initial lead of 1km.					
b	Carriage for disposal of serviceable/unserviceable material/ earth	CUM	2,800.00			0.006650500%
111	Supplying and filling sand upto any depth under floors, around foundations, plinths etc. in layers not exceeding 250 mm thickness and compacted so as to achieve at least 80% relative density as per IS-2720 (Part-XIV) including spreading, watering, ramming/compaction by manual / mechanical means, dressing, royalty (if any) etc. all complete.					
a	For 80% Relative Density	CUM	100.00			0.019732251%
200	CONCRETE WORK: Providing and placing concrete work including cost of labour, materials (unless otherwise specified in BOQ/contract specification) and equipment for handling, transportation, batching, mixing, placing, vibrating and curing (excluding cost of centering, shuttering and reinforcement) with mechanised equipments like batching plant, transit mixer, concrete pump etc. complete as per drawing, specifications and as per direction of engineer in charge for the following.					
202	Concrete of grade M10 (1 part cement, 3 part sand, 6 parts of 40 mm graded aggregate by volume) as lean concrete, levelling course, mud mat under and around foundations/floors below finished floor level upto depth of 10m from FFL.	CUM	545.00			0.533222982%
205	Providing and laying Design Mix cement concrete conforming to IS:456 & IS 10262-2009 for reinforced concrete works with sand and graded hard stone aggregate of 20mm nominal size in foundations/substructure, grade slab, paving, drains, under floors etc for any shape, position or thickness etc complete including use of plasticizer/ superplasticizer conforming to IS:9103 (latest) to achieve required slump in concrete all complete as per specification & drawing below finished floor level upto a depth of 10m from FFL.					
b	M 25 Grade	CUM	2,550.00			3.099169309%
213	Providing and laying Design Mix cement concrete as per IS:456 & IS 10262-2009 for reinforced concrete works using graded aggregate for Concrete in precast works like roof slabs/trench covers, fins, lintels, chajias, beams, columns, wall panels, facias etc.at all levels in all kinds of work including formwork/moulds, curing, rendering the top exposed surface with cement sand mortar (1:3), handling, storing, transpoting, all leads, erection without damage, setting in position with cement sand mortar (1:3), filling the gaps between adjacent precast units with M30 grade concrete or cement sand mortar (1:3) and including making of holes for bolts for fixing, welding etc.complete with graded aggregate (20/12.5/10 mm) and as per specification and drawing for following grades.					
c	M30	CUM	10.00			0.018153671%
A213	Engineering, Design and drawing of Prestressed precast boundary wall as per specification and general arrangement (GA) of boundary wall furnished by BHEL, submission of design calculations and drawings, incorporation of comments in submitted drawings/calculations to finally obtain approved design calculations/drawings for construction at site. Preliminary general arrangement of boundary wall is enclosed along with tender document for information only. Actual general arrangement shall be furnished to successful bidder during detail engineering and no extra claim by the bidder shall be entertained on account of variation between actual GA & GA furnished with tender.	LS	1.00			0.100945082%
B213	Providing and laying factory manufactured Prestressed precast Reinforced concrete columns as per approved design and drawing submitted by bidder with design Mix cement concrete of grade M40 as per IS:456 & IS 10262-2009 using graded aggregate for Concrete in precast boundary-wall works. The work shall include cost of strands / reinforcement, formwork/moulds, provision of suitable grooves/matching key/pockets for fixing of wall panels, Y shaped MS posts for concertina etc., curing, rendering the top exposed surface with cement sand mortar (1:3), handling, storing, transporting for all leads, erection with required T&P without damage, setting in position inside foundation collar with M30 grade cement concrete with 10 mm down stone aggregates, etc all complete with graded aggregate (20/12.5/10 mm) and as per specification and drawing.(Pockets/embedded plates for fixing of Y shaped MS posts for concertina shall be provided as per drawing, embedded plates, concertina and Y shaped MS post to be paid separately as per item no 2006/2007/2008). Bidder has to manufacture precast columns at factory equipped with required pre-stressing equipment and transport to site & store at identified location. Cost of transportation from factory to site etc. is included in this item. ALL MATERIALS TO BE SUPPLIED BY CONTRACTOR FOR FACTORY MANUFACTURED PRE-CAST WORKS. (Payment Terms - a) For manufacturing of Prestressed Precast Columns - 40%, b) For Transportation, shifting, erection in position, etc - 60%)	CUM	1,650.00			7.064228172%
C213	Providing and laying factory manufactured Precast Reinforced concrete wall panels, copings, architectural features etc. as per approved design and drawing submitted by bidder with design Mix cement concrete of grade M30 as per IS:456 & IS 10262-2009 using graded aggregate for Concrete in precast boundary-wall works. The work shall include cost of strands / reinforcement, formwork/moulds, provision of suitable grooves/key for interlocking of panels after erection, curing, rendering the top exposed surface with cement sand mortar (1:3), handling, storing, transporting for all leads, erection with required T&P without damage, setting in position with cement sand mortar (1:3), filling the gaps with cement sand mortar (1:3), etc all complete with graded aggregate (20/12.5/10 mm) and as per specification and drawing. Bidder has to manufacture precast items at factory and transport to site & store at identified location. Cost of transportation from factory to site etc. is included in this item. ALL MATERIALS TO BE SUPPLIED BY CONTRACTOR FOR FACTORY MANUFACTURED PRE-CAST WORKS. (Payment Terms - a) For manufacturing of Precast Panels - 40%, b) For Transportation, shifting, erection in position, etc - 60%)	CUM	2,250.00			8.505011386%
215	Dismantling concrete work for all types of structures at all levels including stacking of servicable material to a lead of 500 m and disposal of unserviceable material upto a lead of 3 km, cutting of reinforcement, labour, equipment, safety precautions etc all complete as per drawings, specification and instructions of engineer in charge.					
a	Plain cement concrete of all grades	CUM	50.00			0.009473308%

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b	Reinforced cement concrete of all grades	CUM	50.00			0.014671294%
300	FORMWORK: Providing, fixing and removing formwork at all elevations for all structures, as per specifications and including all labour, material, scaffoldings and centering etc. complete as per drawing, specifications and as per direction of engineer in charge for the following.					
301	Fairface form work with good quality water proof ply wood of minimum 12mm thickness and smooth surface below finished ground floor level for foundations, footings, base of columns, walls, columns, pilasters, beams & slabs (for which scaffolding work not required for vertical support of bottom face of formwork), mass concrete, trenches, grade slab, paving etc.including chamfering of edges as per drawing, specification and instruction of engineer in charge.					
a	Upto Depth 10m From FGL	SQM	10,250.00			1.318406714%
400	REINFORCEMENT WORK : Reinforcement work including all labour, material (unless otherwise specified in BOQ/contract specification), equipment, transportation, handling etc at all level as per specification, drawings and as directed by engineer - in - charge.					
A402	Providing, straightening, cutting, bending, placing in position at all level, binding in position of steel reinforcements of TMT corrosion resistant steel (CRS) of grade Fe-500/500D/550 conforming to IS:1786 including cost of reinforcement steel, binding wire, labour, scaffolding, transportation to & from stores etc complete all as per specifications, drawings and as directed by Engineer.	MT	175.00			2.599982938%
500	Roof Treatment works: Roof treatment works including all labour, material (unless otherwise specified in BOQ/contract specification), equipment, transportation, handling, curing, sampling, testing etc at all level as per specification, drawings and as directed by engineer - in - charge.					
511	Providing and applying two coats of bitumen grade 85/25 as per IS 702 (@ 1.7kg/sqm)with 1% antistripping compound conforming to IS 6241 in foundation, wall, column etc on concrete surfaces exposed to soil / ash including surface preparation etc. all complete.	SQM	8,800.00			0.392306388%
600	JOINTS AND FILLERS: Joints & fillers including all labour, material, equipment, transportation, handling etc at all level as per specification, drawings and as directed by engineer - in - charge.					
605	Supplying and installation of commercial quality expanded polystyrene products from reliable manufacturers as approved by the Engineer, as filler material in joints including nailing, installation as per manufacturer's recommendation etc. all complete.					
Ae	25 mm wide joints with polystyrene board of type-1 conforming to IS: 4671 with a density of 20 Kg/cum	SQM	400.00			0.008185230%
700	MS EMBEDMENTS: Embedments including all labour, material (unless otherwise specified in BOQ/contract specification), equipment, transportation, handling etc. at all level as per specification, drawings and as directed by engineer - in - charge.					
701	Supply, fabricating and fixing of mild steel embedments, inserts, pipe sleeves, angle pieces, rungs of various diameters, plates of dimensions as required etc. including welding, bolting, cutting, drilling, scaffolding, setting etc. all complete.	MT	6.00			0.109637869%
702	Supply, Fabrication, transportation, delivery at site and erection, installation and alignment of mild steel foundation bolt assembly conforming to IS:2062 and grade 1 of IS:432 in concrete along with nuts, lock nuts (as per IS:1363, 1364 and IS:3138), washers, anchor plates, stiffener plates, protective tape, pipe sleeves, templates etc. including welding, cutting, grinding, threading, drilling etc. all complete.	MT	1.00			0.022980216%
703	Same as above items 701 & 702 with BHEL supplied material free of cost including loading, transportation, unloading etc. all complete from BHEL store to plant site.					

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A	Mild steel embedments, inserts, pipe sleeves, angle pieces, rungs of various diameters, plates of dimensions as required etc.	MT	6.00			0.109637869%
1000	BRICKWORK					
	BRICKWORK: Brickwork masonry including all labour, material (unless otherwise specified in BOQ/contract specification), equipment, transportation, handling, scaffolding etc. at all levels as per specification, drawings and as directed by engineer - in - charge.					
A1002	Providing brick work in cement mortar 1:5 (1 cement 6 coarse sand) in walls, chambers etc. in thickness 230mm at all heights, places and position above plinth including raking out joints, curing, scaffolding etc complete excluding plastering and painting.					
a	Using fly ash lime bricks confirming to IS 12894 with crushing strength of 75 kg/cm2(including cost of cement for brick making)	CUM	50.00			0.068048861%
c	Using burnt clay bricks of class designation 7.5 of nominal dimension	CUM	50.00			0.083862068%

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1200	PLASTERING					
	PLASTERING: Cement mortar plaster including making grooves wherever required including all labour, material (unless otherwise specified in BOQ/contract specification), scaffolding, curing etc at all level as per specification, drawings and as directed by engineer - in - charge.					
A1201	Providing 20mm thick plaster in two layers outside the building/boundary wall/rough surface of internal wall in cement mortar 1:4 on walls, finished to a smooth finish including providing 3mmx3mm size grooves at junctions of two dissimilar materials all complete.	SQM	300.00			0.021486229%
2000	FENCING AND GATES: Fencing and gates including all labour, material (unless otherwise specified in BOQ/contract specification), equipment etc at all level as per specification, drawings and as directed by engineer - in - charge.					
2006	Supplying and fixing 600mm high concertina on top of boundary wall including GI tension wires, clips, anchors, accessories etc. all complete. Concertinal shall be from tensile serrated galvanised wire (HTSW) made with wire diameter of 2.5 mm which will be stretched to 6m and attached on two strands of galvanised HTSSW (high tensile spring steel wire) of 2.5mm dia by means of clips at 1m interval. These two HTSSW strands will be attached to the fence posts/ angles with 12 mm security fasteners. (Structural post shall be separately under ST No. 2007)	RM	6,900.00			0.495443942%
2007	Supply and fixing of hot dip galvanised mild steel posts for fencing. Rate of zinc coating shall not be less than 710 g/m2 on steel posts.	MT	10.00			0.188072106%
2008	Supply, fabrication and fixing of mild steel posts for fencing including painting etc all complete.	MT	5.00			0.095476690%
2009	Supply, fabrication and installing in position and testing galvanised MS Gates out of channels, joists, angles, flats, plates, pipes, welded steel wire mesh & sheets including stiffeners, bracings, fabricated hinges, MS Aldrops with locking arrangement, tempered steel pivot, guide track of MS Tee, bronze aluminium ball bearing arrangements, castor wheels, etc. all complete.	MT	9.00			0.205578816%
2500	PILING					
B2504	Breaking of Pile head to cut off level and exposing pile reinforcement for embedment in pile cap including cuttinbg, bending, placing, welding, disposal of debris within the plant premises etc. all complete as per specification, drawing and as directed by the engineer-in-charge for teh following					
a	Pile with 450mm Diameter	EACH	1,366.00			0.813203225%
2600	LEVELLING & GRADING OF BOUNDARY WALL & STORAGE YARD AREA					
2600	LEVELING & GRADING: Levelling & grading works including all labour, material (unless otherwise specified in BOQ/contract specification), equipment etc. as per specification, drawings and as directed by engineer - in - charge for the following:					
2601	Cutting of trees having girth more than 300 mm measured at a height of 1m above ground level including removal of roots, stacking the seviceable material like trunks,branches etc at specified area within the plant boundary and disposal of unseviceable parts/materials withtin a lead upto 1km etc all complete.					
a	300 mm upto 600 mm girth.	EACH	500.00			0.044488918%
b	601 mm upto 1200 mm girth.	EACH	25.00			0.009971182%
c	1200mm and above.	EACH	25.00			0.046416467%
2602	Earth work in stripping of top soil upto a maximum depth of 0.30m below ground level so as to exclude all debris, grass, vegetation, bushes, trees having girth upto 300 mm including roots and organic materials etc for leveling and grading including dressing to specified levels & grades and compacting the graded/stripped surface by manual/mechanical means, disposal of stripped materials within a lead upto 1km etc all complete as per specification, drawing and as directed by the engineer-in-charge.	SQM	5,35,000.00			2.443693155%
2603	Earth work in excavation upto any depth below ground level in all types of soil including moorum, ash which can be excavated by any means for grading including setting out, levelling, dewatering (wherever required), dressing the sides & bottom, levelling to grade, all lifts, ramming/compacting the excavated bottom/graded surface, stacking/disposal of surplus excavated materials within a lead upto 1km, spreading/levelling of disposed materials etc all complete as per specification, drawing and as directed by the engineer-in-charge.	CUM	17,12,359.00			30.972973215%
A2608	Earth work in filling upto any depth below ground level for grading to proper grade and level in layers not exceeding 200mm loose thickness so as to achieve at least 95% maximum dry density as per IS-2720 (Part-VII) with selected approved soil/soft rock directly from excavation within a lead upto 1km and compacted as specified including dewatering if required, sorting, spreading, breaking clods, watering, ramming/compaction by manual/mechanical means, dressing, finishing to required lines, grades and slopes, tesing etc all complete as per specification, drawing and as directed by the engineer for the following. The approval on the suitability for backfilling soil shall be taken from IIT/IISc/NIT.	CUM	3,42,471.80			5.694021338%
B2608	Earth work in filling upto any depth below ground level for grading to proper grade and level in layers not exceeding 200mm loose thickness so as to achieve at least 95% maximum dry density as per IS-2720 (Part-VII) with selected approved soil/soft rock from compulsorily excavated earth available within a lead upto 3km and compacted as specified, dewatering (if required) including re-excavation of stacked earth, all lifts, sorting, spreading, breaking clods, watering, ramming/compaction by manual/mechanical means, dressing, finishing to required lines, grades and slopes, tesing etc all complete as per specification, drawing and as directed by the engineer for the following. The approval on the suitability for backfilling soil shall be taken from IIT/IISc/NIT.	CUM	13,69,887.20			31.035544878%
A2610	Extra over ST No. 2601 to 2607 for carriage of unserviceable material/earth for every 500m or part thereof beyond an initial lead of 1km.	CUM	1,60,500.00			0.381216132%
B2610	Disposal of unserviceable material/ earth in designated disposal areas as directed by the Engineer-in-charge available within a lead upto 3km. The earth shall not be dumped haphazardly but shall be spread in horizontal layers not exceeding 300mm in thickness and nominal compaction done upto 85% Proctor density to the satisfaction of the Owner. All clods shall be broken before placing the fill. Earthmoving machinery including dumpers, dozers, rollers and trucks shall be allowed to ply over the fill to permit compaction to take place.	CUM	1,60,500.00			2.756485879%
	Total					100.000000000%