## Corrigendum - 03 Dated 01/01/2025 to CPC Tender No. BHEL/CPC/SPT/T YARD TO CHIMNEY RAFT/25/057

Name of work :- Civil, Structural & Architectural works entire Power Block Area (T-Yard to FGD) - Power House, Boiler, ESP, Mill & Bunker, TG, BFP, Fan Foundations, FGD, TG, CEP, CW pit, ESP Control Room, Chimney Raft, ID Ducts, Paving Works, Transformer Yard, CST Pump House, Compressor, DG, MRS, AC & Ventilation Ducting, Labour Hutment for 1000 workers including land leasing, Rooftop Solar System foundation (Within power block area), Sewage water line (Within BTG area), Civil work for LP piping & Fire Fighting (Within BTG area), Pipe rack/cable rack (Within BTG area), CW Duct Buried (Civil work within power house area), Worker's Rest Room etc." at 1X800 MW NTPC Sipat STPP.

S.	Tender	ns on bidder's queries issued by BHEL are as below  Tender condition	Bidder's quiry	Clarification
No	Clause	Tender condition	bluder's quiry	Clarification
1	Boq Item no A502	Providing and laying Screed concrete of grade M15 (1:2:4) with sand and graded hard stone aggregate 12.5mm/6 mm nominal size having minimum 25 mm thickness at the lowest point of the slope to maintain roof slope including preparation of surface, batching, mixing, leveling etc. all complete as per specification and as per direction of Engineer-in-charge.	•	Average thickness of 50 mm shall be considered
2	B506	Providing and applying WATER PROOFING ON ROOF HAVING NO STRUCTURAL SLOPE: Screed concrete mix (1:2:4) grading having minimum 25mm thickness at the lowest point of the slope shall be laid over R.C.C. slab and shall be laid as per the slope specified else-where in the specification. Top surface of grading underbed shall be finished with 15mm thick cement plaster (1:4). Over the finished surface elastomeric membrane shall be laid and top of the elastomeric membrane shall be finished with 20 mm thick cement: sand (1:4) mortar with chicken wire mesh and pressed precast concrete titles of 20 mm thickness where applicable shall be laid over mortar at green stage. Provision for thermal expansion of roofingtiles shall be kept by providing an expansion gap in both directions filled up with polysulphide joint sealant. The expansion gap shall be provided in the cement sand mortar underbed layer also. The elastomeric membrane above mentioned for water-proofing shall be of two component, instant setting, 100% solids spraarge, labour, materials, equipment, handling, batching, transporting, mixing, pumping, placing, levelling, vibrating, compacting, curing, testing, cleaning and rendering the exposed surface with cement sand mortar to give a smooth and even surface, maintaining and submitting records of concreting, petrographic examination and potential reactivity of aggregate as per IS-2386, Part-VII & Part-VIII etc. all complete as per specification, drawing and instructions of engineer in charge, including ultra-sonic pulse velocity (UPV) testing as directed by engineer in charge, rectification of the defects in concreting observed by UPV testing by cement/epoxy grout etc., but excluding formwork, staging, rectification of the defects in concreting observed by UPV testing by cement/epoxy grout etc., but excluding formwork, staging, rectification of the defects in concreting observed by UPV testing by cement/epoxy grout etc., but excluding formwork, staging, rectification of the defects in concreting observed by UPV testing	It apears that two or more than two items are mixed such as Boq item no A208 and item related to Door ,Window glazing panes. Pl clarrify this item.	Please refer Annexure-B of Corrigendum-2 dated 31-12-2024.

S.	Tender	Tender condition	Bidder's quiry	Clarification
No	Clause			
3	BOQ item noA 510 and B510	Providing and laying cement concrete chequered flooring tiles of 22 mm thickness conforming to IS 13801 including 20 mm thick 1:4 cement sand mortar with chicken wire mesh over the top most layer of roofing treatment with fine joints including sealing of joints (silicon/elastomeric sealant) and providing expansion gap in both directions including underbed(as per drawings) filled up with (silicon/elastomeric) joint sealant etc all complete. (Water proofing paid elsewhere)(including cost of cement for tiles making)  Payment Terms:  a) On receipt of material at site - 60%  b) On complete execution as per item description - 40%	Kindly provide the size of tile.	Cement concrete chequered flooring tiles of 22 mm thickness of size 200mm x 200mm conforming to IS 13801 shall be considered.
4	BOQ item no.A910	Providing, fabricating, designing, supplying and fixing of Aluminium composite panel cladding (ACP) in pan shape in solid or metallic colour of approved shades made out of 4mm thick aluminium composite panel (weight of panel should be 7.5 kg/sqmt) material consisting of 3mm thick FR grade Class A2 as per EN 13501, mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF conforming to AAMA 2605 or Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc. The top coated surface of ACP shall comply with the "specification for coated coil for the exterior building application" issued by ECCA (European Coil Coating Association). The aluminium composite panel top and bottom skin should conform to Aluminium Alloy 5005 (AlMg 1)titing wherever required including cost of PVC/neoprene gasket, all complete as per drawing, specification and instructions of engineer in charge (Glazing and panelling shall be paid seperately). Weight of aluminium section only shall be measure.  Payment Terms:  a) On receipt of material at site - 60%  b) On complete execution as per item description - 40% regate as per IS-2386, Part-VII & Part-VIII etc. all complete as per specification, drawing and instructions of engineer in charge, including ultra-sonic pulse velocity (UPV) testing as directed by engineer in charge, rectification of the defects in concreting observed by UPV testing by ocement/epoxy grout etc., but excluding formwork, staging, reinforcement, embedments and temperature control of concrete.  Payment terms - a) After casting 75%; b) After receipt of ultrasonic pulse velocity (UPV) testing as to supported on non-combustible 6 mm Calcium Silicate setting blocks. The door shall be fitted with offset pull handle and door closer of Dorma (TS 73V,	ACP and other please confirm.	Please refer Annexure-B of Corrigendum-2 dated 31-12-2024.

S.		Tender condition	Bidder's quiry	Clarification
No	) Clause			
5	BOQ Item no 913	Providing and fixing in position rolling shutter of hot rolled double dipped galvanised steel lath section of 18 SWG tested mild steel strips at 75mm rolling centres interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation including wire springs, top cover, primer & shop coats of approved enamel paint etc, all complete as per IS 6248 and specification of approved make of following types: The bottom lath shall be coupled to a lock plate fabricated from 3mm thick galvanised steel plate and securely rivetted with stiffening angles.(partly coiled and lath/full lath).  Payment Terms:  a) On receipt of material at site - 60%  b) On complete execution as per item description - 40%	operation wheareas its rate is being asked for electrically operated rolling shutter. Please confirm this item is for Push and pull type rolling ahutter or Electricaly operated.	BOQ Item Description is self explanatory.
6	Boq Item no 1001 1002 1003	Providing brick work in cement mortar 1:6 (1 part cement 6 parts coarse sand) in walls, chambers etc. in thickness varying from 230mm to 460mm at all depths, places and positions below plinth including raking out joints, curing, scaffolding etc. complete excluding plastering and painting. Using fly ash lime bricks confirming to IS 12894 with crushing strength of 75 kg/cm2(including cost of cement for brick making)	per cm sq can be used in place of fly ash lime bricks. Please	Tender specification shall prevail.
7	Boq Item no A1013	Providing and laying Autoclave Areated concrete (AAC) blocks having dimensions of 625 mm x 250 mm. thickness ranging from 100 mm to 300 mm conforming to I.S. :2185(part III) in walls, chambers etc. at depths, places and position above plinth, including horizontal and vertical joint thickness approximately 10 mm, raking out joints, curing, scaffolding etc. complete excluding plastering and painting all complete as per specification and drawing. The jointing cement sand mortar in the composition of 1: 6 (Cement: sand) shall be used with suitable plasticizer(optional). Sand having modulus of fineness 1.1 shall be used. The horizontal and vertical joint thickness shall be approximately 10 mm. In case of partition walls (100 mm /125 mm thk.) the joint reinforcement i.e. 1 number of 6-8 mm diameter bars shall be placed at every alternate course to be anchored properly with the main structure.  All other structural requirements like stiffening of masonry, joint reinforcement etc. in the AAC masonry worired Toughened Interlayered glass with a light transmission of 86% and a sound reduction of 37 dB and manufactured in UL & TUV audited Facility and including UL-EU Certification and compliant to	mm / 125 mm with same rate. We presume that 6-8 mm dia steel bar shall be providing for in 100mm/125mm thick wall. Pls confirm the qty of partition wall so that the cost of steel bar may be considered and loaded in this item or consider the payment of reininforcement bar separately.	Detailed drawing with partition wall will be issued to the successful bidder during execution stage. However, bidder may consider suitably.
8	Boq Item no 1401	Providing and laying 50 mm thick heavy duty cement concrete in flooring with metallic hardener pigmented topping 12mm thick uniform graded treated iron particles in flooring. Under layer of 38mm thick cement concrete mix 1:2:4 (1 cement: 2 sand: 4 stone aggregates 12.5 mm well graded) and top layer of 12mm thick metallic concrete of mix 1:2 (1 cement hardner mix with approved quality metallic hardening compound: 2 stone aggregate 6mm nominal size) by volume including cement slurry, rounding off edges, aluminium strips etc. all complete for following (Quoted item rate shall be inclusive of providing glass joint strips):	out the cost of cost of glass strip and also provide the thickness of glass strip.	Detailed drawing with panel size will be issued to the successful bidder during execution stage. However, bidder may consider suitably.

S. No	Tender Clause	Tender condition	Bidder's quiry	Clarification
9	Boq Item no A1412	Providing and laying 18-20 mm thick polished Granite stone of approved color and texture in flooring with brass/ stainless steel strips. Under bed shall average 30 mm thick of 30mm thk of 1 cement: 1.5 sand: 3 stone aggregate by volume and brought to proper level. The granite stone slabs/tiles laid over under bed, pressed and tapped down with wooden mallet to the proper level, lifted and pressed again with thick cement slurry spread over the surface with fine joint finished including pigments, curing, grinding, moulding, cornice, granite polishing etc. all complete.Payment Terms:  a) On receipt of material at site - 60%  b) On complete execution as per item description - 40%	a bed of cement martor whereas in this item laying of granite stone over under bed of cement conrete has been considered.	Tender specification shall prevail.
10	Boq Item no A1801	Providing and Filling in trenches, plinths, area paving, grade slab, other underground structures, etc. with 63 mm downgraded hard stone aggregate as per IRC specification watering and compaction to minimum of 90% Standard Proctor density, including filling the interstices of stone aggregates with sand) in layers not exceeding 200 mm in thickness all complete as per drawings/specifications. Payment shall be made for the measurement of the volume of the compacted fill.	execution of item no A1801 is more than	Tender specification shall prevail.
		Supply and laying approved quality Stone aggregate 40mm size in transformer yards.		
12	Boq Item no 1803	Supply and laying approved quality rounded pebbles / gravels of 40mm size in transformer yards.		
13	Boq Item no A1841	Providing, laying and fixing rails and guide rails in concrete for transformer, rail track including cutting of rails, joining of rails, anchoring lugs etc all complete.  Payment Terms:  a) On receipt of material at site - 60%  b) On complete execution as per item description - 40%	Please confirm the weight of rail per meter.	Rail weighing 52 kg/m (minimum) shall be considered.
14	Boq Item no A 1845	Providing and installation of Bio-Toilet near all the modular worker's sheds etc all complete as per specification	Please provide the numbers of workers sheds to be constructed alongwith its drawing and specification. Also provide the items to bein in bio toilets.	Detailed drawing will be issued to the successful bidder during execution stage.
15		Supplying and erecting in position 2.4 m high PVC coated G.I. welded wire mesh fencing of minimum 4 mm diameter (including PVC coating) of mesh size 75mmX75mm including providing concertina of 600 mm height over chain link fencing. The diameter of the steel wire for chain link fence (excluding PVC coating) shall not be less than 2.5 mm. The PVC coated chain link will be stretched by the clips at 0.5m intervals to three strands of galvanised high tensile spring steel wire (HTSSW) of 2.5 mm diameter interwoven with chain link wire mesh and kept under tension which in turn are attached to the fence post with security nuts and bolts. On every fourth post a clamping strip will be threaded through the links of chain link and bolted to the fence post with the help of security nuts and bolts. Concertina of height of 600 mm at top of chain link fencing shall be provided with all accessories.  Concertina shall be of high tensile serrated galvanised wire (HTSW) with wire diameter of 2.5mm stretched to 6m and attached toaluminium-zinc alloy coating to class AZ150 on both sides, both sheet shall be permanently coated with silicon modified polyster (SMP with silicon content of 30% to 50%) paint of minimum 20 micron DFT on exposed surface on 5 microns (min.) epoxy primer/phosphate primer coat and 10 micron (min.) SMP on 5 micron (min.) epoxy primer/phosphate primer on other face	confirm the correct item discription.some other item is may be bymistake printed below the stages of payment. Pls confirm.	Please refer Annexure-B of Corrigendum-2 dated 31-12-2024.

S. No	Tender Clause	Tender condition	Bidder's quiry	Clarification
110	Clause			
16	Boq Item no. 2208 2209 2210 2220	Laying of non pressure RCC pipe and CI pipe	Please confirm whether excavation and back filling shall we paid separately.	Excavation and backfilling, if any, shall be paid seperately under relevant BOQ Item.
17	Boq Item no AA 2301	Taking delivery of steel from BHEL stores / store yard, loading, transportation, unloading, pre-assembly and erection of shop fabricated Medium and High Tensile structural steel (Grade designation E350/E410 conforming to IS 2062) with rolled section / built up section combination of both conforming to IS:2062, chequered plate conforming to IS: 3052, etc. in columns, beams, gantry girders, roof trusses portals, laced purlins, struts, monorails, galleries, stiffeners, wall beams, sheeting runners, brackets, stub columns, bracings, cleats, trestles base plates, splice plates, chequered plate flooring, ladders, stairs, stringers, toe-guard/kick plate, etc., alignment, erection bolts & nuts (weight of erection bolts shall be paid seperately), assembly, edge preparation, erection scheme, protection against damage in transit stability of structures, installation of temporary structures, setting column bases, rectification (if any), dismantling and removal of al temporary structures (weight of temporary structuyment Terms:  a) On receipt of material at site - 60%  b) On complete execution as per item description - 40%r coat of minimum 5 micron(nominal) and minum 10 micron (nominal) SMP or super polyester paint over primer coat of minum 5 micron (nominal) on other face. SMP and polyster paint system sahll be of idutrial finish of product type 4 of AS/NZ2728, including fixing of sheet to top flange of beam	mixing. Pls confirm.	Please refer Annexure-B of Corrigendum-2 dated 31-12-2024.
18	Boq Item no B2301	Fabrication (Site Welded as per specification), transportation from fabrication yard and erection of Medium and High Tensile structural steel (Grade designation E250 conforming to IS 2062) with rolled section / built up section / combination of both conforming to IS:2062, pipes conforming to IS:1161/ IS:1239, chequered plate conforming to IS: 3052, mild steel rounds, monorails, stays, safety chains, ladders, etc. in columns, beams, gantry girders, bunkers, silos, hoppers, roof trusses, portals, laced purlins, space frames, hangers, struts, monorails, galleries, stiffeners, wall beams, sheeting runners, brackets, stub columns, bracings, cleats, trestles, base plates, splice plates, chequered plate flooring, decking and seal plates, steel frame grid over false ceiling, walkway platforms, ladders, stairs, stringers, treads, landings, hand-rails etc. including connection design & preparation of fabrication drgs (Using 3D model software like Tekla or equivalent), collection of steel from stores, straightening, yment Terms:  a) On receipt of material at site - 60% b) On complete execution as per item description - 40% coat of minimum 5 micron(nominal) and minum 10 micron (nominal) SMP or super polyester paint over primer coat of minum 5 micron (nominal) on other face. SMP and polyster paint system sahll be of idutrial finish of product type 4 of AS/NZ2728, including fixing of sheet to top flange of beam with drawn are welding of headed shear anchor studs (260mm c/c in the trough and stich screws between two adjacent sheets and sealing with epoxy sealant. The shear anchor studs shall confirm to type B studs specified in AWS D1.1/D1.1M or equivalent as shear connector of 16 mm dia & 65 mm length manufactured from cold drawn round steel bars confirming to ASTM A 29 of grade designation 1010 through 1020 of standard quality with either semi killed or killed welded by drawn are stud welding through metal deck sheet (shear anchor studs shall be paid separately under relevant item)?  a) On receipt of material site - 60% b)		Please refer Annexure-B of Corrigendum-2 dated 31-12-2024.

S. No	Tender Clause	Tender condition	Bidder's quiry	Clarification
110	Clause			
19	Boq Item no A2424	Providing & installation of bitumen impregnated fibre board of specified thickness confirming to IS 1838 as joint filler including nailing, coating of both faces with coal tar pitch/bitumin etc. all complete as per specification, drawing and as directed by engineer.  Payment Terms:  a) On receipt of material at site - 60%  b) On complete execution as per item description - 40%	board.	Detailed drawing with thickness of board will be issued to the successful bidder during execution stage.
20	Boq Item no A2425	Providing and filling in position hot applied bitumen sealing compound (Grade A) of specified thick confirming to IS 1834 including cleaning, mixing, heating, pouring/injecting sealing compound in gaps in joints, sealant primer etc all complete as per specification, drawing and as directed by Engineer.	filling of bituminus ceiling compound.	Detailed drawing with required thickness will be issued to the successful bidder during execution stage.
21	GCC Clause 2.8.19	Also, no idle charges will be admissible in the event of any stoppage caused in the work resulting in contractor's labour and Tools & Plants being rendered idle due to any reason at any time.	In the event of any stoppage not attributed to contractor may be considered for idle payment of labour T& P & incidental charges. Pl confirm.	Tender condition shall prevail.
22	GCC Clause 2.14.2	The quantities given in the contract are tentative and may change to any extent (both in plus side and minus side). No compensation becomes payable in case the variation of the quantity of individual BOQ item(s) is within the limits of Plus (+) 100% of the quantity in the original price schedule in this regard.	The limit for quantity varriation of individual item for below ground level should be taken as 100 % and for items above ground level should be taken 20%.	Tender specification shall prevail.
23	GCC Clause 2.17	PRICE VARIATION COMPENSATION	Price variation is applIcable. Pl confirm.	Applicable as per Clause 2.17 of GCC.
24	GCC Clause 2.17.2	85% component of Contract Value shall be considered for PVC calculations and remaining 15% shall be treated as fixed component.  The basis for calculation of price variation in each category, their component, Base Index, shall be as under:	Please specify the weightage percentage for labour material HSD and others for this work package.	Refer Clause 2.17 of GCC.
26	SCC Clause no. 4.1.2	All the shims, gaskets and packing, which go finally as part of plant equipment, shall be supplied by BHEL free of cost.	All shims, gaskets and packing including packing plates elsewhere including packing plate below steel coloumn shall be issued by BHEL free of cost and shall be considered for reconcilition and payment. Pl confirm	Packing plate below steel column shall be used from scrap steel and same shall be recorded for reconciliation purpose. No payment shall be made for packaer plate.
27	SCC Clause no. 4.2.2.7	The rate quoted shall be inclusive of cleaning the site of any vegetation, dressing and levelling etc., required for commencement of site activities. The rates shall also be inclusive of final micro grading before handing over. No separate payment will be made towards the same be payable.	We assume that labled and graded site with boundary shall be handed over to us by BHEL. Please confirm.	Tender specification shall prevail.
28	TCC Clause no. 2.5.16	Any activity which is necessarily required for satisfactory execution of any item of BOQ in line with technical specifications shall be deemed to be included in BOQ item even if it is not described in the item description and no extra payment shall be made against such activity.	The item description mentoned in BOQ shall prevail.	Tender specification shall prevail.

S.	Tender Clause	Tender condition	Bidder's quiry	Clarification
29	TCC Clause no. 2.8.2	Setting Up of Laboratory Works: BHEL shall set up centralised civil quality laboratory in the close vicinity of the work site wherein test shall be performed for all civil contractors working for the project. The civil lab building shall be excluded from contractor's scope however required latest testing equipment as per attached Annexure-I shall be in the scope of contractor. The contractor should ensure that the equipment is available well in advance of starting of the work to avoid stoppage of work on this account. Timely calibration and regular maintenance shall be the responsibility of the contractor. Any damage to testing equipment during operation or any problem arises during execution stage shall be rectified by contractor including replacement, if required at his own cost. The lab equipment shall be handed over to BHEL after completion of contract period.	BHEL shall setup a centralized civil quality lab for all contractors working for this work package along with civil lab building and lab equipments. In case the contractor is also making abailable the same equipments. This will increase the cost on the project as more than 1 contractor will be working at project. please confirm weather contractor has to established the lab with lab equipment in addition to BHEL established centralized lab.	The clause is self explanatory.
30	TCC Clause no. 2.9.14	Arranging manufacturer's supervision for items of work done as per manufacturer's specifications when so specified.	Please confirm that the HSE requirement of the work shall be as per green belt management.	Tender specification shall prevail.
31	TCC Clause no. 2.12.1	In case of any conflict/deviations amongst various documents, the order of precedence shall be as follows:  1. Items Description in BOQ Cum Rate Schedule 2. Technical Conditions of Contract (TCC) 3. Technical Specifications for Customer (Section-C) 4. BHEL's Standard Specification (Section-D) 5. Technical SpecHVAC_DUCTING_ACCESSORIES	we presume that the heirarchy provided in TCC shall prevail over all documents whereever the heirarchy is mentioned.	Tender specification shall prevail.
32	TCC Clause no. 3.10 iv	iv. Labour Bio toilets near work spot in sufficient nos. with regular cleaning & maintenance arrangement.	Labour biotoilests in sufficent numbers shall be established at ground levels only. Please confirm	Tender specification shall prevail.
33	TCC Clause no. 9.10.2	Penal Rate will be 1.05 times the actual cost to BHEL or Rate mentioned in Table 9.10.1 above, whichever is higher, shall be imposed.	To avoid any confusion in deciding the panal rate it will be fare to keep a fixed panal rate.	Tender specification shall prevail.
34	HSE Clause no. 10.5.1	MEDICAL FACILITIES:	As per contract provision medical facility such as medical facility, Doctors including medical staff, medicines, tools and tackles medicines waste disposal etc. shall be maintained by BHEL. The amount to be incurred on all these shall be shared between contracts. Please disclosed the tentative amount to be recovered from the work of this package.	Tender specification shall prevail.
35	HSE Clause no. 10.5.3	HEALTH CHECK UP	We presume that health checkup of workers / staff shall be done by BHEL	No. it shall be done by bidder itself.

S. Tender	Tender condition	Bidder's quiry	Clarification
No Clause			
36 HSE Clause no Annexure A.1 Pg no 1 of 3		This project is for 28 months duration. Please provide us the cost towards medical facility per month so that the cost may be considered for working of the tender cost	Tender specification shall prevail.
37 HSE Clause no Annexure D Re Shed Pg 1 of 2 Clause 2 & 3	est 2	Please provide the drawing and design of rest shed and amenities to be provided in rest shed for this work package.	Detailed drawing will be issued to the successful bidder during execution stage However, bidder to consider suitably.
38 HSE Clause no Annexure E Clause no 3		As per item mentioned in BOQ for construction of 8 no labour colony and the indicative drawing attached in tender documents shows to type of labour colony one as dormetery type labour colony and second for familiy labour colony. Please confirm the number of dormetries type labour colony and family type labour colony.	Detailed drawing will be issued to the successful bidder during execution stage However, bidder to consider suitably.
39 HSE Clause no Annexure F Clause no 8	At Site, in various elevations, suitable urinals with proper drainage to be ensured at each elevation in line with IS 2064 (1993). Same to be cleaned regularly	As asked for toilets to be made available at all elevations it needs piping to it needs proper drainage and septic tanks to disposed of the waste.	Tender specification shall prevail.
	s and conditions against this NIT shall remain unchanged.  dum is to be submitted duly signed and stamped along with the Techno-commercial bid (Part- I).		1

Sr. Manager / SCT- CPC