



ISO 9001, ISO 14001 and  
OHSAS 18001 certified  
company  
Sub Contract and Purchase  
Deptt.

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## **CORRIGENDUM-II**

**Sub: Techno- Commercial Clarifications against open tender enquiry for Erection, Testing, Commissioning, Trial Operation & handing over of Boiler, ESP, Rotating Machines, its auxiliaries, Boiler & Power Cycle Piping, Insulation, final painting and fabrication, Erection Of Mill & Bunker Bay Structures & Pipe Rack Structure of Unit No. 1, 2 & 3 at 3X660 MW LALITPUR STPS of LALITPUR POWER GENERATION CO. LTD., Distt. Lalitpur, U.P**

**TENDER NO. BHEL/ NR/SCT/ LALITPUR/ BOILER & STR./ UNIT 1, 2 & 3 / 838**

**BHEL WEB SITE NIT REF: NIT\_ 10848**

This corrigendum contains Annexure-I reg. Techno-Commercial clarifications in the specifications and shall form a part of the above tender. This corrigendum is to be submitted, duly signed and stamped, along with the technical bid (Part -I). All other terms and conditions shall remain unaltered.

**SDGM/SCT**

TENDER NO. BHEL/ NR/SCT/LALITPUR/BOILER & STR./ UNIT 1, 2 & 3 / 838				
Sub.: TECHNICAL AND COMMERCIAL CLARIFICATIONS FOR THE TENDER FOR ERECTION, TESTING, COMMISSIONING, TRIAL OPERATION & HANDING OVER OF BOILER, ESP, ROTATING MACHINES, ITS AUXILIARIES, BOILER & POWER CYCLE PIPING, INSULATION, FINAL PAINTING AND FABRICATION, ERECTION OF MILL & BUNKER BAY STRUCTURES & PIPE RACK STRUCTURE OF UNIT NO. 1, 2 & 3 AT 3X660 MW LALITPUR STPS OF LALITPUR POWER GENERATION CO. LTD., DISTT. LALITPUR, U.P.				
Sl. No.	Reference clause of Tender Document	Existing provision	Bidder's query	BHEL's clarification
1	Clause No. 2.3 of SCC	Transportation of ceiling girder from BHEL's store to erection site	Ceiling Girder pieces shall be unloaded near the erection site by M/s. BHEL and transportation of Ceiling Girder from BHEL's store to erection site is not required. Please confirm.	The unloading will be at the discretion of BHEL engineer at site. It could be at erection site or store yard.
2	Clause No. 4.1.4 of SCC	BHEL's Scope w.r.t. supply of filler wires & electrodes	As per this clause, contractor's understanding is as follows : a) All filler wires required for welding of pressure parts and piping for all types of material shall be provided by BHEL, free of cost. b) Additionally, the electrodes as required for P91/ T91 welding shall also be provided by BHEL, free of cost. Please confirm, this understanding is in line with BHEL's requirement.	Yes for Boiler only. Shall be as per the Clause No. 4.1.4 of SCC.
3	Clause No. 4.2.2.16 of SCC	Contractor's obligation w.r.t. Tower cranes provided by M/s. BHEL.	Required foundation for Tower Cranes shall be constructed by M/s. BHEL. Only assembly, erection & dismantling of Tower Cranes is in the scope of contractor. Please confirm.	Required foundation for Tower Cranes shall be provided by BHEL/LPGCL. Assistance for assembly, erection & dismantling of Tower Cranes is in the scope of contractor.
4	Clause No. 2.3.8 of TCC	Supply of finish paint for Boiler	Rates to be quoted by contractor for Boiler should include the cost of supply & application of two coats of finish paint. Please confirm.	Yes.
5	Clause No. 1.1.2, Chapter-III of TCC	Space for labour colony & staff	Please clarify whether open space for construction of labour colony and staff colony to be provided by M/s. BHEL free of cost or contractor to arrange the same.	It is clearly specify in Chapter III 1.1.2 contractor have to make their own arrangement for labour colony & staff.
6	Clause No. 1.2, Chapter-III of TCC	Charge of power per KWH	Please provide the rate per KWH of electricity.	Kindly confirm from UPPCL website or UPPTCL office at Lalitpur.
7	Clause No. 5, Chapter-V of TCC	Capacity of Tower Crane	Please provide the capacity, jib length and height of Tower Cranes to be provided by M/s. BHEL.	20/30 T at 20 M radius, jib length 70 mtrs. Crane operator will provided by BHEL.
8	Clause No.2 of Rate Schedule for Package-I Part-II – Price Bid	Type of Boiler Structure	Please clarify the type of Boiler Structure i.e. bolted type OR welded type	Both type Bolted as well welded
9	-	General	Please provide BHEL approved vendor list for the following items : a) Paint Material b) Structural Steel Material c) Electroforged Galvanized Gratings d) Mild Steel Bolts e) High Strength Structural Bolts f) Grouting Material	Material to be supplied by bidder with the prior approval by BHEL engineer for vendor
10	Clause no. 1.2.1.1 & clause 1.2.2.5 on page 13 of 205 of TCC	The electricity provided by BHEL on chargeable basis.	Please confirm the rate of electricity charges per unit.	Kindly confirm from UPPCL website or UPPTCL office at Lalitpur.
11	Clause 4.0 on page 18 of 205 of TCC	T&P and MMD deployed by contractor.	Please confirm the list of T&P is for one unit or three units.	T&P list is for one unit only.
12	Clause no. 4.0 (26) on page 20 of 205 of TCC – T&P deployed by contractor	Pipe chamfering / tube cutting machine deployed by contractor.	Please confirm whether pipes recd at site edge prepared or to be prepared by contractor.	Most of the pipes received at site will be edge prepared. If any pipes received without edge preparation then edge preparation has to be carried out at site.

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Sl. No.	Reference clause of Tender Document	Existing provision	Bidder's query	BHEL's clarification
13	Clause 10.1 (3) on page 33 of 205 of TCC	The contractor shall in no case be entitled for any compensation..... any such material.	Please let us know as to what work will be carried out by contractor if there is no supply of any material.	Clause may be read as given in the tender.
14	Clause 3.14.00 on page 156 of 205 of TCC	Provision shall be made for all steel bearing plates ..... not specified in drawing.	Please confirm on what basis contractor will make provision for steel bearing plate if the same has not been specified in the drawings.	Provision will be made as per drgs. If not given in drgs & provision to be made then it will be paid as extra.
15	Clause no. 5.01.00 (a) on page 164 of 205 of TCC	The contractor shall quote in his tender ..... each of following aspects of work.	The time of completion cannot be indicated unless the general drawings are available. With regard to procurement of material, since major material are to be procured by BHEL PCP cannot submit time schedule.	Clause mentioned is applicable for structural steel work only & time of completion have to given when mother drgs handed over to contractor.
16	Clause no. 5.01.00 (b) on page 164 of 205 of TCC	Location of tenderer fab. Workshop ..... Shall be submitted.	Please confirm whether fab. of steel structure is to be carried out at site or workshop.	At site
17	Clause 4.2.2.16 © on page 13 of SCC	BHEL may also provide crane through ..... from scope of contractor.	Please confirm who has to provide crane operator in case of crane will be provided through hiring agency if provided by contractor what will be the charges.	BHEL crane 100MT & above will be provided with operator.
18	Clause 2.15 on page 71 of GCC – Extra Work	Extra work for civil package.	Please confirm under which package the work of fab. & erect. of steel structure will be considered.	Extra work as per civil packages GCC cl. No. 2.15.7
19	Clause 2.17 on page 72 of GCC – Price Variation	Price variation compensation.	Please confirm under which package the work of fab. & erect. of steel structure will be considered.	
20	2.5	Bidders scope of supply of structural steel and total contract for Boiler erection. / Time schedule for clause no. 6.2	Please confirm that over run compensation clause is applicable as per G.C.C (clause no. 2.17 & 2.12) for the total completion period of Boiler erection work and Mill Bunker structural work for individual package.  Please also confirm that supply part which are under bidders scope of work shall also attract price variation clause and over run compensation clause as per G.C.C. as the market is volatile, otherwise please allow us to procure the material as per BOQ/SOR quantity within two of three months after issuing the L.O.I.	ORC clause in GCC applicable for total completion period of contract  NO PV will be applicable FOR SUPPLY PORTION.
21	1.2.1.1	Electricity	Please confirm the rate of electricity for single point source for construction purpose as it is defined in tender that the electricity shall be issued on chargeable basis.	Kindly confirm from UPPCL website or UPPTCL office at Lalitpur.
22	18 / 16.3.0 of painting specification	Sand blasting equipment	Please confirm that the surface preparation of structural work shall be carried out sand or grit or copper slag to get the desire finish.  In other clause of painting schedule of 16.3.0 surface preparation is mentioned by power tool cleaning.	Surface preparation of structural work as per painting specification in the tender but wherever sand blasting required have to be done.

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Sl. No.	Reference clause of Tender Document	Existing provision	Bidder's query	BHEL's clarification
23	4	Tower Crane of BHEL's T&P	Please specify the capacity of tower crane of M/s. BHEL's T&P to analysis the proper estimation in cost input. Please also confirm that tower cranes operator shall be provided by M/s. BHEL's free of cost.	20/30 T at 20 M radius, jib length 70 mtrs. Crane operator will provided by BHEL.
24	Volume-II Section-C-16	Painting specification	Please confirm that all boiler components i.e. equipments & piping for generator & auxiliaries shall be supplied to us with proper blasting and primer painting from M/s. BHEL's workshop or vendor's workshop. Only finish paint shall be done by bidder.	AS per clause 6.2 TCC part II, After applying the primer paints all structure / equipment / items, shall be finish painted with two coats of alloyed resin machinery enamel paints as specified by BHEL engineer.
			Please confirm the DFT for final paint as it is mentioned total DFT in painting schedule.	Kindly note painting schedule given in tender is applicable only for structural steel work of Mill & bunker bay.
			Please also confirm that bidder's supplied material for Mill & Bunker structure all structural component shall be applied primer and finish paint along with proper blasting.	For Boiler painting will be done as per chapter 6 TCC part II
25	CC, Chapter-III, 1.2.1.1 / 1.2.2.5		Please provide us charges for electricity for construction & accommodation purpose to be provided by you.	Kindly confirm from UPPCL website or UPPCL office at Lalitpur.
26	TCC, Chapter-III, 1.3.1.1		Please clarify the scope of providing water required for construction purpose, as it is mentioned that Contractor have to make bore wells itself, though this is indicated in the scope of BHEL	Construction water if available will be provide at one point near erection site otherwise contractor have to make borewell itself.
27	TCC, Chapter-V, 5.0, 4		Please provide us the capacity of Tower Cranes to be provided by BHEL and probable location of of the same along with civil foundation scope.	20/30 T at 20 M radius, jib length 70 mtrs. Crane operator will provided by BHEL. Foundation will be in BHEL scope
28			Please provide us the Sectional Elevation Drawing and Layout Plan.	For drgs, visit PSNR Noida office
29			Please confirm that BHEL will provide design drawings to prepare the fabrication drawings of Mill Bay & Pipe Rack Structure fabrication work.	Mother drgs will be provided by BHEL. Detailing to be done by contractor

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Sl. No.	Reference clause of Tender Document	Existing provision	Bidder's query	BHEL's clarification
30			Please confirm that supply of all type of Primer, Intermediate Paint and Finish Paint is in the scope of Bidder or shall be provided by BHEL free of charge at site.	As per cl. No. 6.4 TCC part -II,it is clearly mention that Contractor at no extra cost to BHEL shall supply all paints, primers, tools and other consumables including scaffolding materials required for finish painting. Paint is to be BHEL approved make only and painting should be as per colour scheme and quality approved / specified by Engineer. Valid Test Certificate for the paint so supplied shall be made available before use of the same on work. No paint whose shelf life has expired should be used for painting.
31	TCC, Chapter 2, 2.5.2		PLease confirm that all the material required for the scope mentioned is covered under the supply order issued by BHEL and no material supply is required to be provided by Bidder.	Material which have to supplied by bidder is as per rate schedule of respective packages
32	Erection Part / 1. 5 / Nil		Please give us the bifurcation (weight-wise) like refractories (pourable / castable), wool mattress, iron part and sheeting (G.I. or aluminium).	Detail of insulation given is as per Annexure-IEE in TCC part I
33			Whether the tonnage mentioned is referred to Hanger and Support or piping of other material like S.S., A.S., C.S. (HP/LP/Temporary).	As per anneexure IF of TCC
34	Supply Part / 1. 1.1 / 704		Please clarify whether the supply includes readymade foundation bolts (pre-fabricated) or the raw material required for foundation bolt.	Only Readymade foundation bolts to be supplied.
35	Supply Part 2. 1.7 / 2306		Please clarify whether supply of Clamps will be readymade (pre-fabricated) or the raw material required for Clamps.	Only Readymade clamps to be supplied.
36	Supply Part 3. 1.12 / 2320 (For all 3 Units), 2.6 / 2319 (For Unit-3) & 2.7 / 2320 (For Unit-3)		Please clarify whether supply of G.I. / S.S. Pipe Hand Railing will be readymade (pre-fabricated) or the raw material required for G.I. / S.S. Pipe Hand Railing.	Only Readymade handrails to be supplied.

37		PART- II – PRICE BID PACKAGE – I, II & III	kindly provide the price bid sheet in XL sheet format	PB Will not be provide in excel sheet
38	4.0 T&P AND MMD DEPLOYED BY CONTRACTOR	LOW BED TRAILER - 1 no. to be deployed with in 30 days from start of contract period or APR	Kindly Specify the components of boiler which needs of this trailer material tranportation	All Structure componenets and Pressure parts,APH etc.
39	4.0 T&P AND MMD DEPLOYED BY CONTRACTOR	SAND BLASTING SET WITH AIR COMPRESSOR - Adequate nos	Kindly Specify The Scope of sand blasting .Is blasting is required for complete painting work	As per requirement otherwise go through chapter 6 TCC part II for boiler painting & painting specification C018 for structural work.

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Sl. No.	Reference clause of Tender Document	Existing provision	Bidder's query	BHEL's clarification
40	700 MS EMBEDMENTS	The bidders rates for preformed flexible open ended bellow strap of neoprene (if specified) shall include supply and transportation, installation in position, drilling, bolting, aligning etc. complete along with any taxes, duties thereon etc.	Kinly provide the detail specification of bellow with drawing	Specification as per rate schedule
41	SUPPLY OF MATERAILAS FOR MILL & BUNKER BAY STRUCTURE WORK	Supply, transportation, delivery at site of mild steel foundation bolt assembly conforming to IS:2062 and grade 1 of IS:432 along with nuts, lock nuts (as per IS:1363, 1364 and IS:3138), washers, anchor plates, stiffner plates, protective tape, pipe sleeves, templates etc.	Kinly provide the detail breakup weight of each grade fasteners with specification or drawing.	Specification as per rate schedule & relevant IS code mentioned. Weight given in rate schedule
42	SUPPLY OF MATERAILAS FOR MILL & BUNKER BAY STRUCTURE WORK	Supply, transportation, delivery at site of crane rails over the crane girder at all elevations as per IS 3443 including all fixtures, clamps, testings etc. all complete as per drawing and specification.	Kinly provide the detail specification with drawing	Specification as per rate schedule & relevant IS code mentioned.