

**BHEL PSSR Chennai
Subcontracts Dept**

BHEL's clarifications are furnished below against some of the bidder's query sought vide letters/email or in Pre Bid discussion held on 3.10.2016 at BHEL PSSR in the Tender Specification BHEL PSSR SCT 1634 for CIVIL, STRUCTURAL AND ARCHITECTURAL WORKS at 1X800MW NCTPS STAGE III-

Corrigendum-1,dt: 7/10/2016

Sr. No,	Reference clause of Tender Document	Existing Provision	Bidder's Query	BHEL Clarification
1	Clause No. 1.3.3, TCC	Open Space:- Minimum space will be provided for office construction, stores construction, fabrication yard.....	We understand that the land required for our site facilities establishment i.e. for Site office, Stores, Workshops, fabrication yard, Pre-cast yard, batching plant, Storage etc. will be provided free of cost to us throughout the project duration. Please confirm.	Tender condition prevails. Bidder to quote as per tender.
2	General		We request you to provide land for labour/ Staff camp establishment free of cost to us near the site. Please consider and confirm.	Tender condition prevails. Bidder to quote as per tender.
3	Clause No. 1.3.6, TCC	Material Supply:- The material will be issued from BHEL stores within plant premises.	We request you to indicate us the probable distance of the client stores from where the free materials will be issued.	Bidder may visit site to understand the location of stores(yard) and quote accordingly.
4	Clause 1.3.6.1 & Clause 1.3.6.3	BHEL shall provide structural steel and reinforcement steel..... Supply of mild steel is in the scope of the bidder.	These clause contradicts to each other, we request you to clarify the same.	Reinforcement & Structural steel Supply are in the scope of BHEL as per tender clause. All other materials including mild steel reinforcement are in the scope of bidder. Bidder to quote accordingly.
5	Clause No. 1.3.6, TCC	BHEL shall provide structural steel and reinforcement steel for incorporation in the permanent work as FREE SUPPLY	IN the event of delay in supply of client free issue materials, we shall be well compensated in form of money as well as time. Please confirm.	Tender condition prevails.

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6	Clause 1.4.1, Volume- IA, Part- I, Chapter- IV	T&Ps to be deployed by contractor for entire package	We understand that the nos of minimum major T & P & mobilization time shown in the list are suggestive only and same may be altered during the execution stage as per the site requirement. Please confirm.	Tender condition prevails. Bidder to quote as per tender.
7	Clause 1.5.1, Volume- IA, Part- I, Chapter- V	T&Ps provided by BHEL on sharing basis	In the event of delay in providing T&Ps provided by BHEL on sharing basis, then we shall be well compensated in form of money as well as time. Please confirm.	Tender condition prevails. Bidder to quote as per tender.
8	Clause 1.7.1, Volume- IA, Part- I, Chapter- VII	Advance for mobilization:- Interest bearing advance for mobilization, limited to 5% of the contract value.....	During the initial phase of the projcet in order to maintain our cash flow, we request you to provide us the 10% interest free mobilization advance in one installment. Kindly consider and confirm.	Tender condition prevails. Bidder to quote as per tender.
9	Clause 2.22, GCC, Page 30/32	Retention Amount:- Retention amount shall be 5% of executed contract value and shall be recovered at the rate of 5% from each running bill.....	We request for no cash retention from our Running Bills. We will submit bank guarantee for the equivalent amount till completion of the project. Kindly consider and confirm.	Tender condition prevails. Bidder to quote as per tender.
10	Clause 1.8.2, Volume- IA, Part- I, Chapter- VIII	Service Tax:- Price quoted shall be exclusive of Service tax.....	We understand the our offer shall be inclusive of all taxes and duties except service tax and same shall be reimbursed to us as per actual. Please confirm.	Tender condition prevails

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11	General		Whether deemed export benefit shall be applicable for this project. Please confirm.	Tender condition prevails
12	Clause 1.9.1, Volume- IA, Part- I, Chapter- X	Note to BOQ:- the quantity indicated in BOQ/ Price bid Part-C is approximate only.....	We understand the the quantity indicated in BOQ are approximate, however the variation in quantities shall be limited to variation of contract value of +15% & -5%. Please confirm.	Tender condition prevails. Bidder to quote as per tender.
13	Clause 1.10.3.2.1, Volume- IA, Part- I, Chapter- X	Minimum Wages.....	We request you to furnish us the minimum wages for unskilled labour to be considered for this project.	Tender conditions prevail. Bidder to understand the site conditions and quote as per tender.
14	Clause 1.14.4, Volume- IA, Part- I, Chapter- XIV	Penal rate of materials.....	The penal recovery rates for the free issue materials are on very higher side, we suggest that the recoveries of free issued materials should be based on the actual maket rates of materials. Please confirm.	Tender condition prevails. Bidder to quote as per tender.
15	EMD TCC CI No.3	Bank Guarantee from Scheduled bank	We request you to furnish us the format of earnest money deposit.	Attached
16	Clause No. 1.0, Sr. No. Vii, NIT	EMD amount:- Rs. 2,35,00,000/-	We request you to reduce the amount of earnest money deposit (EMD) to 2 Lakh only, as applicable to other BHEL tenders. Please consider and confirm.	Tender conditions prevail
17	Clause No. 2.7.9, GCC, Page 18/32	If the contractor fails to maintain the required progress of work which results in delay.....	We proposes that the LD shall be 0.25% per week of delay and maximum up to 5% of CV. Please confirm.	Tender condition prevails. Bidder to quote as per tender.

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18	Clause 1.6.1, Volume- IA, Part- I, Chapter- VI	Time Schedule:- The commencement of work at site shall be within 15 days from the date of LOI.	We request you to consider the mobilization period at least one month form the LOI. Kindly consider and confirm.	Tender condition prevails. Bidder to quote as per tender.
19	General	Delays not attributable to Contractor	In case of any delay due to the reasons not attributed to the contractor, then in that case we shall be compensate in the form of money as well as time. Please confirm.	Tender condition prevails. Bidder to quote as per tender.
20	General	Site Clearance	All construction and occupational clearance shall be taken care by client. Please confirm.	In line with tender conditions bidder to quote.
21	Reinforcement		We understand that the laps, chairs and spacers will be paid to us extra as per actual. Please confirm.	Tender condition prevails. Bidder to quote as per tender.
22	Section -D, Standard Technical Specifications, Fine Aggregates		Use of crushed/ manufactured sand is permitted in all concreting works. Please confirm. We further requeset you to allow us to replace the natural sand partially or fully with the crushed/ manufactured sand. Please confirm.	Tender condition prevails. Bidder to quote as per tender.
23	Clause 8.02.01, Volume-IIB, Section- D, Page 18/26	Measurement:- Pile length shall be measured form pile cut-off level to the tip.....	Mode of measurement for all piling is paid from founding level to cutoff level. We propose that it should be considered upto exsisting ground level. Please consider & confirm.	Tender condition prevails. Bidder to quote as per tender.

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24	Clause 8.01.06, Volume-IIB, Section- D, Page 17/26	The quoted rate of piling shall be inclusive of bailing out all the pile bore spoil from the pile bore.....	Area for the disposal and necessary permissions for disposal of the debris material are to be provided by BHEL. Please consider and confirm.	Tender condition prevails. Bidder to quote as per tender.
25	Clause 8.01.08, Volume-IIB, Section- D, Page 17/26	The quoted rate of piling shall also be include chiselling if any required for socketing the pile in rock.	We request you to provide a separate items in Volume II- Price Bid for boring in soil and rock for piling. Please consider and confirm.	Rock Socketing in pile for this project site is not envisaged in the item specification. Bidder to quote in line with item specification.
26	Clause 8.01.08, Volume-IIB, Section- D, Page 17/26	Socketing	We request you to furnish us the depth of socketing to be done hard rock.	
27		Pile Liner/ Casing	We understand the no permanent casing is required to be provided for piling work. Please confirm.	Permanent casing not envisaged in the item specification for piling work. Bidder to quote in line with item specification.
28		Piling Liner Thickness	We request you to provide us the minimum thickness of temporary pile liner to be provided.	

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29	ANNEXURE - 1, PRE QUALIFYING CRITERIA: Clause no. C: C-1	FINANCIAL - Turnover Bidders must have achieved an average annual financial turnover (Refer Explanatory notes) of Rs.67,00,00,000/- (Rs. Sixty Seven Crores only) or more over last three Financial Years (FY) i.e 2012-13, 2013-14 and 2014-15.	Our Audit report is available till March 2016 & hence we understand we can consider financial {FY} 2013-14, 2014-15 and 2015-16. Please confirm	Tender condition prevails. Bidder to quote as per tender.
30	General		We presume that the detailed GFC drawings shall be issued to us within 15 days form the date of award of work. Please confirm.	Tender condition prevails. Bidder to quote as per tender.
31	Site Handing Over & Assess to site.		Site will be handed over to the contractor in one go and free from any encumbrance alongwith the motarable approach with proper right of way. Please confirm.	BHEL will ensure availability of sufficient area/work fronts to the bidder in a progressive manner to have continuity of the work.
32	Earnest Money Deposit	Demand Draft of Rs. 20 Lacs and Bank Guarantee of Rs. 2.15 Crore.	Please provide us the beneficiary name for issuance of both DD and BG. We also request you to provide your Bank Account details.	BHEL-PSSR-Chennai, Bank Account No:10610819488, IFSC code :SBIN0000912,State Bank of India,690, EVR Periyar Building, Nandanam, Anna Salai, Chennai-600 035,Email:sbi00912@sbi.co.in
33	Vol.II, Price Bid, BOQ Ref. no.A2504	Grade of concrete for piling is mentioned as M30	Please clarify whether concrete grade for piles is M25 or M30.	Bidder to quote in line with item specification as per price bid.

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Sr. No,	Reference clause of Tender Document	Existing Provision	Bidder's Query	BHEL Clarification
34	Vol.II B, Section D, Bored cast-in-situ RCC piles, Spec. no.PE-TS-999-600-C021, Annexure A, sheet 20 of 26.	Grade of concrete for piles is mentioned as M25.		Bidder to quote in line with item specification as per price bid.
35	Lahmeyer India Spec. no.SE/E/T&H(P) /OT No.02/2015-16.Vol.II Sec.2 cl.2.4.4.1(B)	Cement SRC or OPC depending upon water / soil.	Please indicate the type of cement to be used for piles and other works.	Ordinary Portland Cement (OPC) shall be used for all structures except for foundations & underground structures where in ordinary Portland cement with C3A content 5% to 8% shall be used. Grade of cement shall be as per specification.

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36	Vol.II B, Section D, Bored cast-in-situ RCC piles, Spec. no.PE-TS-999-600-C021, Annexure A, sheet 20 of 26.	Clause A 1.1 for safe load for different dia. of piles are not indicated in the table.	Please indicate the safe vertical, lateral and pull out capacities of piles for 600mm dia. of 26m length below cut off level, 600mm dia. pile of 17m length below cut off level and 760mm dia. pile of 28m length below cut off level, since the contractors have to propose rates for conducting load tests.	The safe load carrying capacities for various diameters of piles are as follows. 1) Dia of pile- 600mm(Bored cast-in situ) of 26M length below cut off level a) safe load carrying capacity in vertical compression = 150MT b) safe load carrying capacity in Lateral = 2.59MT c) safe load carrying capacity in pull out = 30 MT 2) Dia of pile- 600mm(Bored cast-in situ) of 17M length below cut off level a) safe load carrying capacity in vertical compression = 75MT b) safe load carrying capacity in Lateral = 2.59MT c) safe load carrying capacity in pull out = 15 MT 3) Dia of pile- 760mm(Bored cast-in situ) a) safe load carrying capacity in vertical compression = 240MT b) safe load carrying capacity in Lateral = 3.78MT c) safe load carrying capacity in pull out = 50 MT

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37	Vol.II B, Section D, Bored cast-in-situ RCC piles, Spec. no.PE-TS-999-600-C021, Annexure A, sheet 20 of 26.	Clause A2 installation criteria and A4.	It has been indicated that a protocol shall be signed between BHEL side and Contractor regarding termination of piles. In this aspect we would like to clarify that we will be submitting a termination criteria depending upon the type of hydraulic rotary drilling rigs to be deployed at site and torque of the rigs to achieve the requisite safe axial capacities of piles and the same shall be approved by BHEL before commencement of work. Accordingly no SPT tests nor any other type of in-situ tests / rock classification or crushing strength tests whatsoever shall be conducted inside the pile bores. Please confirm.	Tender condition prevails. Bidder to quote as per tender.
38	Vol.II Price Bid. BOQ Ref. A2504	In the description of item, it is mentioned that the quoted rate for piling shall include empty boring from ground level to pile cut off level.	Since empty boring is to be included in the pile installation rate below cut off level please specify the empty boring length in individual pile measured from working ground level upto pile cut off level.	In general depth of empty boring varies from 3m to 5m. However the same may vary beyond 5m as well for TG & some other foundations. The quoted rate shall be inclusive empty boring up to any depth as required during the execution as per drawing.

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40	Vol.II Price Bid. BOQ Ref. A1840.	Analysis, design, supply, fabrication and installation of tubular day light system	Please mention on which building day light system is required. Also indicate roof top level and intermediate slab levels so that we may able to calculate the pipe length required for the system.	Bidder to quote in line with item specification as per price bid.
41	Vol.II Price Bid. BOQ Ref. A2112.b.	C.P. Liquid paper holder	Please clarify the item description	A2112.b. to be read as C.P. paper holder
42	Vol.II Price Bid. BOQ Ref. A2320.	Providing and fixing polished teak wood handrail on stainless steel flat all complete as per specification.	Please mention sectional details/dimensions of teak wood to be fixed on stainless steel flat.	Approximate size of Teak wood Handrail may be considered as 100x 65mm. However final size and detail will be furnished during detail engineering.
43	Vol.IA,PART-I, CHAPTER-III, Clause-1.3.3.4	Contractor has to make his own arrangements for labour colony	We request you to provide land for labour colony on free of cost near the plant premises.	Tender condition prevails. Bidder to quote as per tender.
44	Vol.1A,Part-II, Chapter-I Clause-1.90	Incase total EMD is more than 20 lacs, the amount in excess of 20 lakh may be accepted in the form of Bank Quarantee.	We request you to consider EMD in the form of BG of amount excess of 2 lakh.	Tender conditions prevail
45		Soft copy of BOQ	We request you to provide soft copy of BOQ in excel format	Bider can download the same from BHEL website.

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46	BOQ-2511	Conducting initial load test upto a maximum test load of 2.5 times the safe load capacity on single pile as specified in accordance with IS 2911 (Part-4 including preparation of pile head for testing, necessary excavation, all arrangements of loading, unloading, test equipments/accessories, jacks, recording of results, labour, submission of test report but excluding the cost of installation of pile (installation of pile shall be paid seperately) etc all complete as per specification, drawing and as directed by engineer in-charge for the following	Please provide the Capacity of pile for Considering loads for PILE Testing Works	Please refer our reply for point number SL No 36.
47	BOQ-Item no -918	Providing and fixing steel louvered window with ISMC 100 frame all round including verticals with 18G pressed steel louvers, painting etc. all complete	1) Please provide Drawings for Louvered window. 2) We have presumed The ISMC 100 frame shall be measured & paid separately under structural steel item, Please confirm	1) Drawing for Louvered window will be provided during execution of work. 2) ISMC 100 frame is included in this BOQ item and not payable separately.
48	BOQ	Item 701,702	Please Confirm whether item 701,702 - Structural Steel shall be under contractor scope.	For Items 701, 702 - Supply is under contractor scope. Bidder to quote as per price bid.

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49	BOQ - A922 a & b	Providing and fixing master key system of profile cylinder (sea water resistant). The material of the cylinders shall be of massive brass, nickel-plated with six security pawl studs all complete as per specification and directions of engineer in charge	Please Provide the number of doors per key.	Technical specification shall be followed
50	BOQ Item 1504	Designing, providing and fixing External sheet of Permanent colour coated metal cladding with troughed M.S. sheets of 0.6mm bare metal thickness having minimum yield strength 250 MPa and zinc-aluminium alloy coating not less than 275 gm/sqm total on both sides including fixing to supports / rails by concealed fixing system, corrosion resistant self tapping / self drilling type fasteners with suitable cap, flashing etc. all complete. The exposed face of the sheet shall be permanently colour coated with Polyfluro Vinyl Coating (PVF2) of minimum dry film thickness (DFT) 20 microns over suitable primer. Inner face of the sheet shall be provided with suitable pre-coating of minimum DFT 7 microns over suitable primer. The permanent colour coated sheet shall meet the general requirements of IS : 14246 and shall conform to class 3 for the durability	Please Consider 0.6 as TCT instead of BMT as there is a shortage in availability of these materials, Also suggest one finish paint for both internal and external sheets currently pvdf is for External and SMP is for internal	Bidder to comply with BOQ Item.

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Sr. No,	Reference clause of Tender Document	Existing Provision	Bidder's Query	BHEL Clarification
51	BOQ Item 1508	Designing, providing and fixing Inner sheet of Permanent colour coated metal cladding with troughed M.S. sheets of 0.6mm bare metal thickness having minimum yield strength 250 MPa and zinc-aluminium alloy coating not less than 275 gm/sqm total on both sides of both sheets including fixing to supports / rails by concealed fixing system, corrosion resistant self tapping / self drilling type fasteners with suitable cap, flashing etc. all complete. The exposed surface of the sheet shall be permanently colour coated with silicon modified polyester paint of minimum dry film thickness (DFT) 20 microns over suitable primer. Other face of the sheet shall be provided with suitable pre-coating of minimum DFT 7 microns over suitable primer. The permanent colour coated sheet shall meet the general requirements of IS : 14246 and shall conform to class 3 for the durability. The sheet shall be fixed directly to side runners and Z spacers as per IS : 277. The sheet shall be fixed at the rate not more than 1500mm center to center to hold the insulation and external sheeting	Please Consider 0.6 as TCT instead of BMT as there is a shortage in availability of these materials, Also suggest one finish paint for both internal and external sheets currently pvdf is for External and SMP is for internal	Bidder to comply with BOQ Item.

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52	A1519 & A1520	<p>Providing and fixing factory made removable type self inter lockable metal panels of preformed textured PVC coated GI sheet lampre panels all complete as per specification. The panel shall be durable & environment friendly, acoustic laminate shall be made up of natural products and should not emit any volatile organic compounds & should be Sustainable & 100% biodegradable. Also it shall be Impact, chemical & fire resistant with anti-bacterial & anti-static properties with Colors & patterns permeate through the surface to reduce noticeable wear. Panel shall comprise of specially designed combination of perforated and non-perforated panels through CNC bending, punching & laser Cutting. Panel should be 0.75mm thick (sheet thickness: 0.6mm and PVC fill: 0.15mm) galvanized metal panel of approved color. The Support structure will be of modular aluminum extrusions firmly fixed / grouted on all planes as per the requirement. Structure will be made of 50 X 5 X 2 mm thick aluminum extrusion</p>	Please provide Basic Rate / sqm or vendor or drawings for the same	bidder to quote in line with item specification as per price bid.

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53	BOQ A1521	Providing and fixing Modular pre-fabricated sliding 3D metal wall cladding with acoustic property to enhance the overall interiors of walls all complete as per specification. Tile size of 600mm x 600mm with back support of aluminum extrusion frame to slide on main frame. 3D metal tile shall be made by designer 3D embossing raised to max. 43mm. Designer panelling should be Modular easy and fast to assemble concept wall to meet the acoustics of the rooms and lobbies. 42mm x 37mm 3D triangular extrusions with 60 micron Powder coating for its resistance in extreme conditions. 3D Extrusions are divided by acoustic micro perforated sheets or other composite material like fabric and acrylics with acoustic properties. System should have arrangement so that the tiles can be fixed in all directions.	Please provide Basic Rate / sqm or vendor or drawings for the same	bidder to quote in line with item specification as per price bid.

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54	BOQ - A1522	Providing and fixing Designer pebble lattice concept paneling consisting 600X600mm composite tiles of ASS with 5mm thick laminated toughened glass encased by extruded aluminum sections for fitment etc all complete as per specification. Structure should be made from heavy duty powder coated modular steel frame (minimum wall thickness 1.6mm to 2.0mm). The frame should be securely grouted from roof and floor with flexible joints to absorb seismic vibration. The tiles will be having cut-outs in such a way that when the tiles are rotated by 90 degrees the design pattern of the entire wall shall be changed	1) Please provide Drawings for this item 2) We have presumed heavy duty modular steel frame shall be measured & paid seperatly under structural steel item ,Please confirm	1) Glass shall be paid separately as per relevant BOQ item. 2) Heavy duty modular steel frame is included in this BOQ item and not payable separately .
55	BOQ - A1840	Procurement, supply & installation of Tubular Day-Light System on the Roof top /vertical walls of the Building with Transparent prismatic Dome (Solar Collectors) of clear polycarbonate sheet of minimum 3 to 4 mm thickness and Daylight Pipe	1) Please drawings for this item 2) We have presumed steel support / frame shall be measured & paid seperatly under structural steel item ,Please confirm	1) Bidder to comply with BOQ item. 2)Bidder's presumption is correct.

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56	BOQ - A2427	Providing and installation of Variable message signs including Cantilever type MS supports etc. all complete as per drawings, specifications, manufacturer (Unit Each)	Please provide Approx size of Signage (0.1/0.2 Sqm) & Please confirm the Letter can be painting or Stickers.	This item description, shall be replaced with "Providing and installation of variable message signs all complete as per drawing & direction of Engineer in charge. Sign panel shall be made out of 2 mm thick aluminum sheet to be riveted/ bolted to structural frame. Sheet work shall be painted with two or more coats of synthetic enamel paint over an undercoat (primer) and back side of aluminium sheet to be painted with two or more coat of epoxy paint including approved priming coat complete. Work shall include all lettering of required size & colour shades, scaffolding, incidental & safety measures involved. (Structural frame work for sign frame including supporting structure and concrete work for post fixing shall be paid separately under relevant items of BOQ).
57	TCC-CI.1.3.3 - Land for Labor accomdation	Contractors scope	We request you to provide the Land for Labour Camp inside the site at free of cost	Tender condition prevails. Bidder to quote as per tender.

**BHEL PSSR Chennai
Subcontracts Dept**

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Corrigendum-1,dt: 7/10/2016

Sr. No,	Reference clause of Tender Document	Existing Provision	Bidder's Query	BHEL Clarification
58	TCC, 1.14.3 - Wastage limit of free issue material	Reinforcement steel & Earthing Rod MS Steel : Invisible wastage (max limit to 0.5%), if any, shall be considered to be included in the specified 3 % allowable wastage.	We request you to consider Invisible wastage (max limit to 1%), if any, shall be considered to be included in the specified 5% allowable wastage as per the existing contracts , Additionally considered Rolling margin variation shall be extra over this percentages	Tender condition prevails. Bidder to quote as per tender.
59	TCC, 1.14.3 - Wastage limit of free issue material	Structural Steel : Invisible wastage (max limit to 0.5%), if any, shall be considered to be included in the specified 4 % allowable wastage.	We request you to consider Invisible wastage (max limit to 1%), if any, shall be considered to be included in the specified 5% allowable wastage as per the existing contracts , Additionally considered Rolling margin variation shall be extra over this percentages	Tender condition prevails. Bidder to quote as per tender.

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Corrigendum-1,dt: 7/10/2016

Sr. No,	Reference clause of Tender Document	Existing Provision	Bidder's Query	BHEL Clarification
60	TCC-CI.1.3.4.1 - Power	<p>Construction power will be provided to the contractor at three points within plant area by BHEL on chargeable basis approximately within 300m from the work place at the applicable rate of TANGEDCO under LT tariff V at the nearest substation. The present LT tariff V rate of TANGEDCO is</p> <p>a) Consumption charges at Rs.7.00 per unit b) Fixed charges as applicable per month c) Electricity Tax on total amount at the rate of 5%</p> <p>Necessary "Capacitor Banks" to improve the Power factor to a minimum of 0.8 shall be provided by the contractor at his cost. Penalty if any levied by customer on this account will be recovered from contractor's bills.</p>	Please provide power @ Free of cost for construction purpose.	Tender condition prevails. Bidder to quote as per tender.
61	General - Labour Cess		We presume that Labour Cess is not applicable to us. Please Confirm.	Tender condition prevails. Bidder to quote as per tender.
62	General - ESI		We presume that ESI is not in Contractor Scope. Please Confirm.	Tender condition prevails. Bidder to quote as per tender.
63	Item no. A111	Supplying and filling sand	We understand that use of stone dust and / or stone dust - 6mm Stone aggregates mix as a replacement to filling sand is technically acceptable. - Kindly confirm	Tender condition prevails. Bidder to quote as per tender.

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Corrigendum-1,dt: 7/10/2016

Sr. No,	Reference clause of Tender Document	Existing Provision	Bidder's Query	BHEL Clarification
64	Item no. 102, A108 Aa, A108 C		It is observed for these BOQ items the receivable rates / amounts based on weightage amount indicated are much lower than the actual cost, as per our assessment. Kindly review and confirm the modified weightages.	Tender condition prevails. Bidder to quote as per tender.
65	Rebate / addition on individual items		Kindly confirm that bidder is permitted to mention percentage ('-' / '+') rebate / addition for selected items as per bidder's convenience.	Tender condition prevails. Bidder to quote as per tender.
66	Item no. A1522	Designer pebble Lattice concept paneling.	It is presumed that cost of Heavy duty frame, Panels, glass etc, are to be included in quoted rate. -Please confirm.	1) Glass shall be paid separately as per relevant BOQ item. 2) Heavy duty modular steel frame is included in this BOQ item and not payable separately .
67	Item no. A1840	Tubular day light system	Please provide the diameter for Pipe and Dome. since the rates are widely varying based on diameters.	Bidder to comply with BOQ Item.
68	Item no. A2427	Providing and installation of variable message signs	Please provide us the followings: a) Approx size of signage. b) Please confirm the structural frame, concrete work, shall be paid separately under relevant items.	Refer item BOQ - A2427 as above
69	Item no. 2511 to 2512	Conducting initial load test, routine load test.	Please confirm the Pile capacity for various type of piles, so that the kentledge load and its cost can be assessed while quoting.	Refer reply for point no.36.

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Corrigendum-1,dt: 7/10/2016

Sr. No,	Reference clause of Tender Document	Existing Provision	Bidder's Query	BHEL Clarification
70	Sl.no. B28, Page 57 of TCC VOL-1A, Part-I Chapter IV-Tools & Plants	Tools and Plants to be deployed by Contractor	We understand that in case the contractor procures approved quality Fly ash bricks manufactured by suitable Fly ash brick plant, located outside project premises then mobilization of Fly ash brick plant will not be required. -Please confirm	agreed
71	Cement	Cl.2.4.4 of Technical Spec: Civil Works(Page 50 of 305 of Vol-I, Book-I)	In the Tender condition, for Sub-structure RCC / PCC works Sulphate Resistant Cement (RSC) is proposed to be used. The interrupted availability of SRC would be difficult since SRC is available only with one manufacturer in Tamilnadu, on limited basis. Hence, it is proposed that Portland Slag Cement (PSC) and / or Portland Pozzolana Cement (PPC) may be permitted to be used for all piling and other cement related works below Ground level, which have been used in other project at North Chennai. - Kindly confirm.	Refer reply for point no.35.

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Corrigendum-1,dt: 7/10/2016

Sr. No,	Reference clause of Tender Document	Existing Provision	Bidder's Query	BHEL Clarification
72	BOQ Item no. 1829	Dismantling PCC /RCC work of existing Skimmer bay Channel	Please confirm the length and drawing / sketch with cross-sectional details of the existing Concrete skimmer bay proposed to be dismantled. This would help us to estimate the cost elements, while quoting item rate.	Approx. size of existing RCC skimmer bay to be dismantled may be considered as 12m wide, 9m deep and 500m long. However, Bidder is advised to visit site to get complete details.
73	Clause no.1.6.7 of TCC (page 64)	Construction schedule Milestone Piling, Pile caps of Boiler, ESP, Power house – Completion time 5to 6 months.	AFC drawing and Front should be released within 15 days from the date of issue of LOI, by BHEL, to achieve the construction schedule. -Kindly confirm.	Tender condition prevails. Bidder to quote as per tender.
74	BOQ Item no. A2504		Please indicate the tentative depth of Pile cut-off level.	In general depth of Pile cut-off level varies from 3m to 5m. However the same may vary beyond 5m as well for TG & some other foundations.

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Corrigendum-1,dt: 7/10/2016

Sr. No,	Reference clause of Tender Document	Existing Provision	Bidder's Query	BHEL Clarification
75	<p>Clause no. 1.14.1 a. - Issue of Steel, Page no. 85 of Technical Conditions of Contract (TCC).</p> <p>1.14.3.2 A) Consumption - Page no. 88 of Technical Conditions of Contract (TCC)</p>	<p>Structural Steel will be issued on weighment basis.</p> <p>Consumption of Structural Steel.</p> <p>The theoretical consumption of various sections shall be based on approved drawings. Weights shall be calculated considering the sectional weights as per Indian standards. No extra cost shall payable to the contractor for any deviation in weights for the two different procedures adopted for issue and calculation of the theoretical consumption including rolling tolerances.</p>	<p>Considering the quantum of job (13,436 MT), all structural steel be issued on linear / sectional weight basis as per IS code (similar to method of measurement) in order to avoid rolling margin / weigh bridge error etc. (which will be varying from 3% to 10% approx.) so that this will not affect reconciliation of structural steel, since consumption is also based on the sectional weight as per IS code.</p> <p align="center">(OR)</p> <p>At the time of issue of structural steel, joint record for the difference in weight between actual (weigh bridge) and IS weight shall be recorded which shall be used for reconciliation purpose. Please confirm the same.</p>	<p>Tender condition prevails. Bidder to quote as per tender.</p>
76	<p>BOQ Ref. No. 2301.0 Page no. 142 of Price Bid</p>	<p>Fabrication and erection of Structural Steel rolled section / built up section / combination of both conforming to IS: 2062, Pipes conforming to IS:1161 / IS:1239, Chequered plate conforming to IS:3502, mild steel rounds, monorails, stays, safety chains, ladders, MS gratings etc,</p>	<p>We understand BHEL will issue as free issue material (FIM) all the Structural Steel rolled sections such as Beams, Channels, Angles, Plates, Sheets, Strips, Flats, Rounds, Chequered plates, Pipes, materials for M.S. Gratings. Please confirm.</p>	<p>Tender condition prevails. Bidder to quote as per tender. Sheets, strips, flats, rounds, pipes, MS gratings will not be provided by BHEL.</p>

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Corrigendum-1,dt: 7/10/2016

Sr. No,	Reference clause of Tender Document	Existing Provision	Bidder's Query	BHEL Clarification
77	Clause no. 1.7.1 -Secured Advance Page no. 66 of TCC	Interest free secured advance upto maximum of 75% of the value of material (landing cost at site) for Cement, Stone aggregate required for incorporation in permanent work shall be paid.	It is requested to make secured advance payment for other materials for incorporation in permanent work such as Electro forged galvanized gratings (Item no. 2307), permanent bolt nuts (Item no. 2310, 2311), Stainless steel liner plate (item no. A2316), PTFE type sliding bearings (Item no. 2317.0), Stainless steel hand rail pipe (item no. A2319) and GI Hand railing Pipe (Item no. A2320). Please confirm.	Tender condition prevails. Bidder to quote as per tender.
78	Clause no. 1.7.2.1 – Advance for Mobilisation Page 66 of TCC	Interest bearing advance for Mobilisation, limited to 5% of the contract value will be paid against submission of Bank Guarantee of at least 110% of the advance valid for the contract period, which will be recovered from the first running bill onwards.	We understand that the recovery against interest will be on reducing principal sum basis.	Tender condition prevails. Bidder to quote as per tender.
79	Clause no. 2.4 of SCC , Page no.5	2.0 General Services to be rendered by the Bidder: Trial run and commissioning of individual equipment / sub-systems to the satisfaction of Owner / BHEL.	As the scope of work is Civil, Structural and Architectural works, Trial run and commissioning of individual equipment / sub-systems to the satisfaction of Owner / BHEL is not applicable. Kindly confirm.	Civil agency to support and complete the works as per the construction schedule and tender conditions

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Corrigendum-1,dt: 7/10/2016

Sr. No,	Reference clause of Tender Document	Existing Provision	Bidder's Query	BHEL Clarification
80	Clause no. 4.1.9 & 4.1.10 Page no. 8 of SCC.	4.0 Obligation of Contractor: All lubricants and chemicals required for pre-commissioning.....All services including labour and T&P will be provided by the contractor Transportation of oil drums, from stores, filling of oil for flushing.....	As the scope of work is Civil, Structural and Architectural works, Clause no. 4.1.9 & 4.1.10 Page no. 8 of SCC is not applicable for this tender. Kindly confirm.	Not applicable
81	Clause no. 8.3, Page no. 24 of SCC - Statutory Inspection work	The work to be executed under these specifications has to be offered for inspection: 1) Inspectorate of Stem Boilers and Smoke Nuisance 2) Electrical Inspector 3) Factory Inspector, Labour Commissioner, PF Commissioner and other authority connected to this project work.	As the scope of work is Civil, Structural and Architectural works, Clause no. 8.3 Page no. 24 of SCC - Statutory Inspection work is not applicable for this tender. Kindly confirm.	Slno 1&2 are not applicable
82	BOQ Ref. No. A2302, Page 143 of Price Bid	Extra over ST No. 2301 for blastand applying self-curing Inorganic Zinc Primer Coat	It is understood that only one coat of self-curing Inorganic Zinc Silicate Primer to be applied. Please confirm.	Bidder understanding of only one coat of self-curing Inorganic Zinc Primer is correct.
83	BOQ Ref. No. 2307-a, Page 144 of Price Bid	Supplying, fabrication, erection and alignment of factory made electroforged galvanized grating units with mild steel	Kindly furnish the typical detail of drawing indicating the type (joint details, section etc) of gratings and thickness of gratings etc.	Bidder to quote in line with item specification as per price bid.

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Corrigendum-1,dt: 7/10/2016

Sr. No,	Reference clause of Tender Document	Existing Provision	Bidder's Query	BHEL Clarification
84	BOQ Ref. No. 2309.0, Page 145 of Price Bid	Extra over above ST No. 2301 for finishing the grating units with hot dipped galvanisation @610 gm/sqm over blast cleaned steel surfaces instead of painting with two coats of red oxide zinc-chromate primer all complete.	We understand that for this item fabricated gratings will be supplied by BHEL on Free of Cost. Also, we understand that the ST No.2301 shall be read as 2307-a. Please confirm.	Structural steel for fabricating MS grating under item no 2301 shall be supplied by BHEL on free of cost basis. Extra over above ST No. 2301 only.
85	BOQ Ref. No. A2320, Page 150 of Price Bid	Supply, fabrication and fixing of stainless steel hand railing and stainless steel pipe.....	Kindly confirm the material specification & thickness of SS pipes.	SS Handrail shall be 409 grade. The minimum pipe thickness shall be considered 1.2mm.
86	BOQ Ref. No. A2322, Page 151 of Price Bid	Supply, fabrication and fixing of GI Pipe hand railing	1. Please confirm the type of surface preparation. (manual clean / blast clean. 2. Request to provide the painting specification details. 3. We understand that the pipe material specification shall be IS:1239 (GI), Medium Grade	1. Surface preparation shall be by manual cleaning 2. Compatible primer and paint of approved colour shall be provided 3. G.I. pipes used for Hand rail to be conforming to IS:1239-Part I for medium grade.

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Corrigendum-1,dt: 7/10/2016

Sr. No,	Reference clause of Tender Document	Existing Provision	Bidder's Query	BHEL Clarification
87	Packing plates/ shim plates for structural steel work.		Weight of Packing plates/ shim plates required to keep the structure in position/ level are of permanent in work nature. Hence weight of these shall also be considered for payment and also for reconciliation purpose. Please confirm.	shall be considered in line tender conditions.
88	1.14.3.3, page 89 of TCC	<p>Reconciliation of materials.</p> <p>At the time of submission of bills by the contractor, if it is noticed by BHEL that the wastage is high and calls for recovery at the penal rate , then BHEL will proceed for recovery for the excess wastage-----.</p>	<p>Since, rolling margin is observed to have substantial effect, we propose that reconciliation shall be done based on actual unit weight basis, which shall be established jointly, at site by taking several representative sample of different steel sections and weighed.</p> <p>Please confirm your acceptance.</p>	Tender condition prevails. Bidder to quote as per tender.

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Corrigendum-1,dt: 7/10/2016

Sr. No,	Reference clause of Tender Document	Existing Provision	Bidder's Query	BHEL Clarification
89	BOQ Ref. No. 2301 Page no.142 of Price Bid	Quantity – 13,436 MT Fabrication and erection of structural steel with mild steel rolled section / built up section / combination of both conforming to IS:2062, pipes conforming to IS:1161/ IS:1239, chequered plate conforming to IS: 3502	The job includes Fabrication & erection of the following major items in the total quantity of 13,436 MT: 1) Build-up sections 2) Power house structure 3) Plate work for coal bunkers & Hoppers 4) Bunker structure 5) Number of bunkers We would request you to provide the break-up for the above items to submit our competitive offer.	Drawing will be provided during execution. Bidder to quote in line with item specification.
90	BOQ Item no. 211, 507,1209, 1007	Providing and encasing of structural steel member.....	Welded wire mesh/chicken wire mesh required for encasing will be paid in same item or will be paid extra, Pl. Clarify	Cost of chicken wire mesh required for encasing is included in same the item.
91	TCC Cl. No. 1.3.4/1.3.5	Construction power and water	It is requested to provide construction power and water at 2 points free of cost.	Tender condition prevails. Bidder to quote as per tender.
92	TCC Cl. No.1.3.3.4	Open space for labour colony	It is requested to provide land for labour colony free of cost.	Tender condition prevails. Bidder to quote as per tender.
93	TCC Chapter II	Land for storage and fabrication yard	It is requested to provide hard crushing land for storage of material, office building, canteen	Tender condition prevails. Bidder to quote as per tender.

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Corrigendum-1,dt: 7/10/2016

Sr. No,	Reference clause of Tender Document	Existing Provision	Bidder's Query	BHEL Clarification
94	TCC Chapter IV	Tool & plant Concrete batching plant 30 cum/Hr – 2 no. & Portable automatic concrete batching plant 15 cum/ hr-1 no	It is requested to allow 2 batching plant of 30 cum/Hr only as the total quantity of concrete is @ 75000 cum	Tender condition prevails. Bidder to quote as per tender.
95	GCC Cl. No. 2.7.9	Liquidated damages	The max. LD should be up to 5 % of the CV	Tender condition prevails. Bidder to quote as per tender.
96	NIT	EMD	It is requested to allow the " one time EMD"	
97	Volume 1 A -Part-II, Chapter 8, Customer spec Vol. 2.4.1 F - III -h.	Bidder to arrange third party quality inspection & audit of all construction material at site.		Bidder to take care of this clause while submitting their offer.
98	Vol Ia,Part-II,Chapter-1	Price Variation Compensation	In view of the project duration and market scenario,we request you to please amend the clause as to get the payment against PVC from the beginning of the contract	Tender conditions prevail

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Corrigendum-1,dt: 7/10/2016

Sr. No,	Reference clause of Tender Document	Existing Provision	Bidder's Query	BHEL Clarification
99	BOQ	Type of bidding:BOQ -Weightage for amount of each item (Nearest to the 7 decimal points) w.r.t the total amount	Since BOQ is given with Weightage for amount of each item w.r.t the total amount. However we need to Analysis for each items Weightage unit rate & Current market rate which need more time to study and indentify any obnormal rate variance. In this context we hereby request you to provide another 10 days for pre bid queries submission. We hereby furnish the relevant BOQ items having rates much below than the market price as well as much higher than the market price with respect to weightage given in the BOQ for your kind review and necessary action please.	Tender conditions prevail
100	NIT clause 1.(v)	Bid submission date as per NIT	Requested to Extented the Bid Submission date upto 4/11/2016	Bid submission remains same as given in the NIT ie 14.10.2016.

AGM/SCT& Purchase

PROFORMA FOR BANK GUARANTEE FOR EARNEST MONEY DEPOSIT

(To be issued in appropriately valid non-judicial paper)

This Deed of Guarantee made this day of 20... by < Name and Address of the Bank> herein after called 'The Bank' in favour of Bharat Heavy Electrical Limited (A Govt. of India Undertaking) a company incorporated under the Company's Act, 1956, having its Registered Office at BHEL House, Siri Fort, New Delhi 110 049, through its unit at Bharat Heavy Electricals Limited, Power Sector Southern Region, 690, Anna Salai, Nandanam, Chennai – 600 035 hereinafter called "The Company".

Whereas Messrs < Bidders Name and address > hereinafter called "the Tenderer", have submitted a Tender in response to Tender Specification No. <.....> for the work of < description > hereinafter called the "Tender Documents" of the Company.

And whereas the said Tender Documents provides that the Tenderer shall pay a sum of Rs. (Rupees.....) towards Earnest Money Deposit to be made in the form and manner therein specified.

And whereas the Tenderer have approached the Bank and at their request and in consideration of the arrangement arrived at between the Tenderer and the Bank, the Bank has agreed to give such Guarantee as hereinafter mentioned in favour of the Company.

Now, therefore, these presents witness that we < the Bank > do hereby undertake to pay the aforesaid Company a sum of Rs. (Rs.....) by virtue of this Guarantee. We further undertake to pay the aforesaid amount merely on demand by the Company, irrespective of the fact whether the said tenderer admits or denies such claim or question its correctness.

The aforesaid Guarantee shall remain in force and we shall be liable to the Company under the said Guarantee till and including {Date} for a sum of Rs. {Amount} as prescribed in the Guarantee.

The Guarantee herein contained shall not be affected by the liquidation or winding up or insolvency or change in the constitution of the Tenderer but shall in all respects and for all purpose be binding and operative until all payments of all moneys due or that may hereafter become due to the said Company in respect of any liability or obligation of the Tenderer under the said Tender documents.

We, the said Bank further agree that the Guarantee hereinafter contained shall remain in full force and effect during the period that would be taken for the finalization of the tender.

The Bank is liable to pay or remit the amount without any demur not exceeding {Rs Amount} by a mere demand or claim by the Company on the Bank

Notwithstanding anything hereinabove the Bank guarantee shall be valid till {Date}, the liability of the Bank shall be limited to Rs. {Amount} and remain in force till the expiry of the Guarantee. No claim shall lie with the Bank after the said date unless extended by the Tenderer.

Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Chennai only.

And lastly, the Bank undertake not to revoke this Guarantee during its currency except with the previous consent of the said Company in writing.

The Bank hereby declares that it has power to issue this Guarantee under the Bank's Memorandum and Articles of Association and the undersigned has full powers to do so on its behalf under the Power of Attorney dated granted to him by the proper authorities of the Bank.

DATE

Signature of the duly Authorized officer of the Bank

Name of the officer

Designation of the officer

Seal, phone no, email id, name and address of the branch