



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN – 03

Ref: PSER:SCT:LPT-E1254::TCN-03

Date: 09-11-2011

Sub	Tender change notice (TCN) 03.	
Job	<i>Erection, commissioning etc of Electrical System & Plant Illumination System for 53 MW Combined Cycle Power Plant at Lepetkata, BCPL, Assam.</i>	
Ref	1.0	Tender no PSER:SCT:LPT-E1254:11.
	2.0	BHEL's NIT, vide reference no PSER:SCT:LPT-E1254:2559, dated 14-10-2011.
	3.0	All other pertinent issues till date.

With reference to above, following points/ documents, relevant to tender, may please be noted and complied with while submitting offer.

- 1.0 Clarification to bidder's queries is enclosed as per Annexure-1.
- 2.0 Revised 'No deviation certificate' as per enclosed Annexure-2. Bidder shall submit no deviation certificate as per enclosed format only.
- 3.0 All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

ENGR (SCT)

Encl

- 1.0 As above.

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION, DJ-9/1, SECTOR-II, SALT LAKE CITY, KOLKATA - 700 091

फैक्स/Fax : (033) 23211960

फोन/Phone : बोर्ड/EPABX : 23211691, 23211798, 23211796

ANNEXURE-1

Sub	Clarifications on the Tender	
Job	Erection, commissioning etc of Electrical System & Plant Illumination System for 53 MW Combined Cycle Power Plant at Lepetkata, BCPL, Assam.	
Ref	1.0	Tender no PSER:SCT:LPT-E1254:11.
	2.0	BHEL's NIT, vide reference no PSER:SCT:LPT-E1254:2559, dated 14-10-11.
	3.0	BHEL's TCN-03, vide reference no PSER:SCT:LPT-E1254:TCN-03, dated 09-11-2011.
	4.0	All other pertinent issues till date.

Based on bidder's queries, following clarifications are furnished on the subject work :

BOQ SL. NO. (REF. VOL-III)	EXISTING PROVISION	BIDDER'S QUIRY	CLARIFICATION FURNISHED BY BHEL
1.7	Non-integral high bay luminaire with 400W HPMV lamp (CGL Cat ref no: IHB1140/P or equivalent).	Structural fabrication work not considered for fixing the fittings in position, please confirm scope	Structural Fabrication included in scope of work as per tender.
1.8	Flameproof non-integral flood light luminaire with 400W HPMV lamp (CGL Cat ref no: FHF500 with 400W HPMV or equivalent).		
1.9	Non-integral well glass luminaire with 125W HPMV lamp (CGL Cat ref no: IWV1212/BC or equivalent).		
1.10	Flameproof non-integral well glass luminaire with 125W HPMV lamp (CGL Cat ref no: FWL200/A with 125W HPMV or equivalent).		
1.11	Street light luminaire with 150W HPSV lamp (CGL Cat ref no: SSG1315IH or equivalent).	1. Supply of pipes, assessories like flex wire, PVC conduit, glands, lugs have not been considered within our scope of work. 2. whether assessories like chain, down rod, flex wire, junction boxes to be considered by vendor. 3. Supply of pipes, assessories like flex wire, PVC conduit, glands lugs have not been considered within our scope of work.	AS PER TENDER-REFER CLAUSE NO 9,VOL-1F,
1.12	Non-integral flood light luminaire with 2x400W HPSV lamp (CGL Cat ref no: FHD1524 or equivalent).		
1.20	3000mm long 25mm GI conduit.	Supply of spare shaddles have not been considered in our work, please confirm scope.	SHADDLES TO BE SUPPLIED BY THE VENDOR
1.21	25mm flexible PVC conduit.	PVC glands and assessories not considered within our scope, please confirm.	AS PER TENDER (BOQ 2.24)
1.23	3000mm long 50mm GI conduit.	no assessories like spares saddles have been considered within our scope, please confirm	ALL ASSESSORIES INCLUDING SHADDLES TO BE SUPPLIED BY THE VENDOR
1.24	3000mm long 50mm PVC conduit.		
1.25	3000mm long 19mm GI conduit.		
1.26	Metsec channel 3m piece.		
		no supply assessories have been considered within our scope, please confirm	

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1.29	9.5 meter street lighting pole (410 SP - 38).	Detailed drawings are required. Whether excavation concreting up-to 1.5 mtr height, supply of conduit pipes for loop in loop out, earthing rod, earthing flats, earth pits, spikes to be considered by us. Please confirm scope.	DRAWING WILL BE PROVIDED DURING EXECUTION, CIVIL WORK IS TO BE CONSIDERED. SCOPE OF SUPPLY OF BALANCE ITEMS TO BE SUPPLIED BY VENDOR
1.30	11 meter flood lighting pole.		
1.31, 1.65, 2.4	3 meter pole.	Detailed drawings are required. Please forward the same	DRAWING WILL BE PROVIDED DURING EXECUTION,
1.32	2 meter pole.		
1.39	63A TPN welding receptacles (Safe area).	Whether structural frame fabrication to be considered in the rate.	STRUCTURAL FABRICATION TO BE CONSIDERED AS PER TENDER.
1.40	63A TPN welding receptacles (Flameproof area).		
1.42	1Cx2.5sqmm red colour 1.1kV PVC insu Cu flexible wire.	Whether cabling through conduit to be considered, please confirm	TO BE CONSIDERED
1.43	1Cx2.5sqmm yellow colour 1.1kV PVC insu Cu flexible wire.		
1.44	1Cx2.5sqmm blue colour 1.1kV PVC insu Cu flexible wire.		
1.45	1Cx2.5sqmm black colour 1.1kV PVC insu Cu flexible wire.		
1.46	1Cx2.5sqmm green colour 1.1kV PVC insu Cu flexible wire.		
1.47	1Cx4.0sqmm red colour 1.1kV PVC insu Cu flexible wire.		
1.48	1Cx4.0sqmm yellow colour 1.1kV PVC insu Cu flexible wire.		
1.49	1Cx4.0sqmm blue colour 1.1kV PVC insu Cu flexible wire.		
1.50	1Cx4.0sqmm black colour 1.1kV PVC insu Cu flexible wire.		
1.52	6 way AC indoor lighting panel.		
1.59	6 way DC outdoor lighting panel.		
1.60	Flameproof 6 way AC indoor lighting panel suitable for hazardous area Group IIA & IIB, Zone 1 & 2.		
1.61	Flameproof 12 way AC indoor lighting panel suitable for hazardous area Group IIA & IIB, Zone 1 & 2.		
1.62	Flameproof 6 way DC indoor lighting panel suitable for hazardous area Group IIA & IIB, Zone 1 & 2.	No supply of glands has been considered by us, please confirm.	GLANDS TO BE SUPPLIED BY THE CONTRACTOR
1.63	4 way 150x100x100mm rectangular cast Al JB suitable for hazardous area Group IIA & IIB, Zone 1 & 2 with two 1" and two 3/4" cable entries along with glands and TB suitable for 4 nos 35sqmm Al cable & 4 nos 2.5sqmm Cu cable.		
1.64	4 way 150x100x100mm rectangular sheet steel JB with two 1" and two 3/4" cable entries along with glands and TB suitable for 4 nos 35sqmm Al cable & 4 nos 2.5sqmm Cu cable.		
SUB-TOTAL (PART-1.0)			
2.0	PART-3.0 (ELECTRICAL SYSTEM)		

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2.1	33KV Isolating breakers (2 panels), dimension: 1300x4000x2500. Dimension of each panel.	Whether fabrication of structural frame to be considered in the rate. Whether testing of panels to be done, if so name the tests required to be elaborated to us. Also list of minimum instruments required for testing to be mentioned. whether use of 3 phase primary and secondary injection kit mandatory or not. please confirm.	TO BE CONSIDERED IN THE RATE AS PER TENDER
2.2	6.6KV SW board (Total of 35 panels) dimension: 820x2650x2700. Dimension of each panel.		
2.3	11/34.5 KV, 20MVA,ONAN STG generator transformer, dimension: 8500x6800x7000mm. Dimension of each transformer.	whether heavy cranes to be provided to us at erection site, as mentioned in clause 2.1, 2.2, same same is also applicable. Please confirm. Installation and testing to be done in presence of service engineer of the manufacturer. Arrangement of service engineer to be provided by owner not by us. type of test to be done at site has to be specifically elaborated.	AS PER TENDER - REFER CLAUSE NO 19.2 OF VOL-1F INSTALLATION & TESTING WILL BE DONE BY THE CONTRACTOR.
2.4	11/34.5 KV, 31.5/35MVA, ONAN/ONAF GTG-1&2 generator transformer, dimension: 11000x6200x6700mm. Dimension of each transformer.		
2.5	33/6.6 KV, 15/18.55MVA,ONAN/ONAF power transformer-1&2. Dimension:8500x9000x6500mm.		
2.9	2000A, 6.6 KV, 50HZ, 40KA/ 1SEC, CR enclosure, TP, phase segregated bus duct. Dimension: 5000x1200x800 mm (indoor) 5000x1200x800 mm (outdoor).	if testing to be done by us then name of the test to be performed shall have to be specifically elaborated.	TESTING AS REQD. WILL BE DONE BY THE CONTRACTOR.
2.10	3200A, 415V, 50HZ, CR enclosure, TPN, non phase segregated bus duct. Dimension: 5000x1200x800 mm (indoor), 5000x1200x800 mm (outdoor).		
2.11	4000A, 415V, 50HZ, CR enclosure, TPN, non phase segregated bus duct. Dimension: 5000x1200x800 mm (indoor), 5000x1200x800 mm (outdoor).		
2.14	LT switchgear.		
2.14.13	110V UPS DB (Dimension: 7200x650x2430 mm).	details of test to be elaborated whether any numerical relay to be configured. Same to be indicated specifically.	TEST DETAILS AS PER APPLICABLE STANDARDS INCLUDED IN THE SCOPE.
2.15	110V UPS DB (Dimension: 7200x650x2430 mm).	Commissioning & testing to be done by service engineer of equipment supplier, not by us, please confirm.	TESTING WILL BE DONE BY THE VENDOR.
2.15	HT cable kits.	No supply of auxiliaries are considered, only labour considered.	ONLY ERECTION & COMMISSIONING TO BE CONSIDERED
2.16	220V station battery chargers.(Total 2 panels) 4500x830x2000 dimension of each set. Total there are 2 sets of battery chargers and each set will have 2 panels (Dual FCBC).	Only erection has been considered, commissioning of charger shall be done by service engineer of equipment supplier.	ONLY ERECTION & COMMISSIONING TO BE CONSIDERED
2.17	220V station batteries (1900AH), Dimension: 11000x1250x2500 mm. Total there are 2 sets of 220V DC battery. Each set will have 2x110 cells.	Commissioning of batteries to be done by service engineer, only erection considered within our scope.	ONLY ERECTION & COMMISSIONING TO BE CONSIDERED
2.19	125V GT DC system package (quantity in sets). Dim/ unit: 2500x830x2000 (Charger) Dimension/unit: 4370x830x2500 (Batteries).		

2.23.1	1.1 KV PVC insulated FRLF outer sheathed, type: 3C X 2.5 sqmm	only erection is in our scope, no testing and commissioning has been considered	Erection along with termination testing , commissioning are in vendor's scope
2.25	PRE FABRICATED CABLE TRAYS AND ACCESSORIES	Assessorries to be defined.	AS PER TENDER
2.26	CABLE DUCTS AND ACCESSORIES PACKAGE	We have not considered any supply items for the same.	AS PER TENDER
2.27	STRUCTURAL STEELS (ERECTION RATE ONLY)	Fabrication and single coat of primer has only been considered by us.	PAINTING AS PER TENDER.
2.28.1	65mm dia pipe electrodes, 3M long GI.	No excavation, supply of salt, charcoal, backfilling, civil work for pit, supply of clamps, funnel, pit covers have been considered by us.	AS PER TENDER
2.28.7	3/8" dia GI fine wire rope.	we have not considered any supply of lugs for the same, please confirm.	LUGS TO BE SUPPLIED BY VENDOR
2.28.8	5/8" Dia GI fine wire rope.		
2.28.9	65mm dia pipe electrodes, 3M long copper.		
2.29	PLANT LIGHTNING PROTECTION	No excavation, supply of salt, charcoal, backfilling, civil work for pit, supply of clamps, funnel, pit covers have been considered by us.	EXCAVATION SUPPLY OF SALT, CHARCOAL, BACKFILLING, CIVIL WORK FOR PIT, SUPPLY OF CLAMPS, FUNNEL, PIT COVERS ARE INCLUDED IN THE SCOPE
2.29.1	65mm dia pipe electrodes, 3M long GI.	No excavation, supply of salt, charcoal, backfilling, civil work for pit, supply of clamps, funnel, pit covers have been considered by us.	

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FORMAT FOR NO DEVIATION CERTIFICATE
(To be submitted in the bidder's letter head)

BHARAT HEAVY ELECTRICALS LIMITED,
Power Sector - Eastern Region,
Plot no 9/1, DJ Block, Sector – II, Salt Lake City,
Kolkata – 700 091

Sub	No Deviation Certificate.	
Job	Erection, commissioning etc of Electrical System & Plant Illumination System for 53 MW Combined Cycle Power Plant at Lepetkata, BCPL, Assam.	
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	3.0	BHEL's TCN-03, vide reference no PSER:SCT:LPT-E1254:TCN-02, dated 09-11-2011.
	4.0	All other pertinent issues till date.

Dear Sirs,

With reference to above, this is to confirm that as per tender conditions, we have visited site before submission of our offer and noted the job content & site conditions etc. We also confirm that we have not changed/ modified the tender documents as appeared in the website/ issued by you and in case of such observance at any stage, it shall be treated as null and void.

We hereby confirm that we have not taken any deviation from tender clauses together with other references as enumerated in the above referred NIT. We hereby confirm our unqualified acceptance to all terms & conditions, unqualified compliance to technical specification, integrity pact (if applicable) and acceptance to reverse auctioning process.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null & void.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized
representative of the bidder)

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