



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 01

Ref: PSER:SCT:PDP-T1255:TCN-01

Date: 27/09/2011

Sub	Tender change notice (TCN) 01	
Job	Package A:- Erection, Testing & Commissioning of 2 Nos of Fr. 9 GTG , 1 Nos of 30 MW STG , Associated auxiliaries ; Related IBR & Non IBR Piping at 366 MW Combined Cycle Power Project , Paradip Refinery Project , Orissa . Package B:- Erection, Testing & Commissioning of 1 Nos of Fr. 9 GTG , 1 Nos of 30 MW STG , Associated auxiliaries , 2 Nos of De-Aerators , 8 Nos of BFPs and Related IBR & Non IBR Piping at 366 MW Combined Cycle Power Project , Paradip Refinery Project , Orissa.	
Ref	1.0	Tender no PSER:SCT:PDP-T1255:11
	2.0	BHEL's NIT, vide ref no PSER:SCT: PDP-T1255:11 Dated 17/09/2011
	3.0	Other references (if any).

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

- 1.0 BHEL clarification to bidders query is attached as per Annexure-A to TCN-01.
- 3.0 Revised 'No deviation certificate' is attached. Bidder to submit 'No deviation certificate' as per attached 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 BHEL clarification : Annexure-A to TCN-01
- 2.0 Revised 'No deviation certificate' format.

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

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

फैक्स/Fax : (033) 23211960

फोन/Phone : बोर्ड/EPABX : 23211798/ 1691

Tender no PSER:SCT:PDP-T1255:11
BHEL Clarification : Annexure-A to TCN-01

Sl. No.	Clause No	Subject	Bidders Queries	BHELs Clarification
01.	26 of Vol-IF	Interest Bearing Recoverable Advance	Interest bearing Recoverable advance is not applicable to this Tender. Considering the huge mobilisation cost including deployment of number of Orbital Welding Machines to complete the piping in such a short period, kindly reconsider the advance payment clause and confirm you will pay Interest bearing advance to enable to take a decision to take part in this Tender	<p>1) Interest bearing recoverable advance of 5 (five) % of the contract price in stages is admissible in the following manner. Rate of interest shall be 2 % (two) above PLR of State Bank of India applicable at the time of drawing the advance (compound interest at the rate of SBI PLR plus 2 % (two) shall be calculated as per monthly rest).</p> <p>a) Two and a half (2.5) % to be released on submission of following</p> <ul style="list-style-type: none"> ◆ Unqualified acceptance to LOI ◆ Requisite security deposit ◆ Bank guarantee (BG) equivalent to 1.2 times the advance amount valid for a period initially for one year subsequently to be extended till the advance is adjusted ◆ Bar chart & on approval by BHEL. <p>b) Two and a half (2.5) % to be released on following.</p> <ul style="list-style-type: none"> ◆ Submission of bank guarantee (BG) equivalent to 1.2 times the advance amount valid for a period initially for one year subsequently to be extended till the advance is adjusted. ◆ Opening of site office, receipt of 8T Hydra at site and certification of the same by BHEL site ◆ Start of erection. <p>2) Invoice for advance against any stage as per above to be raised immediately but not later than the advance against subsequent stage become due.</p> <p>3) All other terms and conditions of IBRA not mentioned above shall be governed by the pertinent provisions of GCC.</p>
02.	16.01 of Vol-IF	Filler wire and Electrode	Welding of P91 pipe material you will supply Filler wire and Electrode. Please confirm that considering the welding of joints using Orbital Welding Machine, you will provide require wires for P91 as well as P22 pipe welding as free issue.	As regard to usage of Orbital welding machine, BHEL shall restrict the same to welding of Other Alloy Steel and Carbon Steel pipes. Since conventional filler wires and Electrodes will be issued by BHEL for P-91 material, manual welding of P-91 pipes is envisaged.

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BHEL Clarification : Annexure-A to TCN-01

Sl. No.	Clause No	Subject	Bidders Queries	BHELs Clarification
03.	25.1 of Vol-IF	Payment terms	As per terms of payment for Stator Erection the progress payment allowed is only 7% and 8% of the value for each Package. This amount will not cover even 50% of the charge to be paid to Strand Jack agency and will require major financing from the Bidders part. We would like to know if BHEL will change this percentage for Stator Lifting and Placement from 7% and 8% to accommodate the rental charge for Strand Jack Deployment or pay the full rent at actual and debit against the progress bill/bills"	Stages of Progressive Pro-rata payments for STG Package has been revised as below.

25.1 STAGES OF PROGRESSIVE PRO-RATA PAYMENTS FOR STG PKG.

SL. NO.	ACTIVITY DESCRIPTION	Percentage of Billing
A CONDENSER (14%)		
1	Foundation preparation	1.00%
2	Placement and Alignment of Shell Assembly	3.00%
3	Fixing of Hot well assembly	2.00%
4	Insertion of Tubes	3.00%
5	Trimming, expansion	2.00%
6	Water fill test of tubes from outside	1.00%
7	Hydraulic test of condenser tubes & water box	1.00%
8	Condenser neck welding with Turbine exhaust & welding	1.00%
B TURBINE (20%)		
1	Foundation Preparation and Matching, laying of packers	1.00%
2	Placement of pedestals, base plates, leveling & tightening of foundation bolts	1.00%
3	Fixing of Strand Jack arrangement for Turbine lifting	2.00%
4	Placement of turbine with rotor with Strand Jack	9.00%
5	Erection of emergency stop valve and control valves	1.00%
6	Alignment of turbine rotor with generator	1.00%
7	Grouting of turbine, generator and exciter with PGM	1.00%
8	Final alignment, coupling, reaming if required, fixing of coupling bolts & tightening	2.00%
9	Final box up of bearing end covers etc. after oil flushing and cleaning of bearing pedestals	1.00%
10	Erection of governing console	1.00%
C GENERATOR (20%)		
1	Matching embedded plates & foundation frame	2.00%
2	Lifting, placement of Generator Stator by Strand Jack	10.00%
3	Dismantling of Strand Jack arrangement	1.00%
4	Rotor insertion and alignment	2.00%
5	Exciter erection	2.00%
6	Alignment of Exciter with Generator	1.00%
7	Erection of Coolers and other Auxiliaries	2.00%

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SL. NO.	ACTIVITY DESCRIPTION	Percentage of Billing
D	AUXILIARIES (20%)	
D1	Erection & Commissioning of CEPs(3%)	
i)	Erection of CEP-A	1.00%
ii)	First trial run (8 hrs.) for CEP-A	0.50%
iii)	Erection of CEP-B	1.00%
iv)	First trial run (8 hrs.) for CEP-B	0.50%
D2	Erection & comm. of Boiler feed pumps (6%)	
i)	Erection of first BFP	1.50%
ii)	First trial run (8 hrs.) for BFP-A	0.50%
iii)	Erection of second BFP-B	1.50%
iv)	First trial run (8 hrs.) for BFP-B	0.50%
v)	Erection of third BFP-C	1.50%
vi)	First trial run (8 hrs.) for BFP-C	0.50%
D3	Erection of Static Aux. covered in Turbine & Generator Oil & water system	1.00%
D4	Placement and alignment of Heaters	1.00%
D5	Placement and alignment of Ejectors, & Gland steam condenser	1.00%
D6	Placement and alignment of Deaerator	5.00%
D7	Placement and alignment of Feed Storage Tanks	3.00%
E	TG Integral & other Piping (12%)	
1	Erection & Welding of TG lub oil piping	3.00%
2	Erection of Gland Steam Piping covered in TG Integral piping(BHEL/Hyd. supply)	1.00%
3	Erection of Condensate system Piping covering suction, discharge and condensate for vacuum piping	3.00%
4	Erection of De-aerator heating and overflow line	2.00%

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SL. NO.	ACTIVITY DESCRIPTION	Percentage of Billing
5	Erection of Gland Cooler Drain to Condenser	1.00%
6	Erection of Flash Tank, it's vent and drain to condenser	1.00%
7	Turbine and other equipment drain	1.00%
F	PRE-COMMISSIONING & COMMISSIONING (10%)	
1	Start of Oil flushing	1.00%
2	Completion of oil flushing & normalisation for TG on turning Gear	1.00%
3	Barring Gear	1.00%
4	Generator Air leakage Test & Dry out	1.00%
5	Vacuum pulling with gland steam (first time commissioning)	1.00%
6	Synchronization	1.00%
7	Full loading	1.00%
8	TRIAL RUN COMPLETION AND HANDING OVER TO CUSTOMER	1.00%
9	PG TEST COMPLETION	2.00%
G	FINISH PAINTING	2.00%
H	LIQUIDATION OF PUNCH LIST OF TG PKG.	2.00%
	GRAND TOTAL	100.00%

**FORMAT FOR NO DEVIATION CERTIFICATE
FOR PACKAGE –A (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	Package A:- Erection, Testing & Commissioning of 2 Nos of Fr. 9 GTG , 1 Nos of 30 MW STG , Associated auxiliaries ; Related IBR & Non IBR Piping at 366 MW Combined Cycle Power Project , Paradip Refinery Project , Orissa . Package B:- Erection, Testing & Commissioning of 1 Nos of Fr. 9 GTG , 1 Nos of 30 MW STG , Associated auxiliaries , 2 Nos of De-Aerators , 8 Nos of BFPs and Related IBR & Non IBR Piping at 366 MW Combined Cycle Power Project , Paradip Refinery Project , Orissa	
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	3.0	BHEL's TCN-01 , vide ref no PSER:SCT:PDP-T1255:TCN-01 Dated 27/09/2011.
	4.0	Other references (if any).

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)

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)
POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091
फैक्स/Fax: (033) 23211960 फोन/Phone : बोर्ड/EPABX : 23211798/ 1691