



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 03

Ref: PSER:SCT: NBN-I1726:TCN-03

Date: 03/03/16

Sub	Tender change notice (TCN) 03	
Job	Erection, testing, commissioning & handing over of Electrical & C&I system for boiler, ESP, TG Sets for Unit#2 of 4x250 MW Nabinagar TPP, Bihar.	
Ref	1.0	Tender No. PSER:SCT:NBN-I1726:16
	2.0	BHEL's NIT, vide reference no PSER:SCT:NBN-I1726:16, dated 18/02/16
	3.0	BHEL's TCN-01 ref PSER:SCT: NBN-I1726:TCN-01 dated 29/02/16
	4.0	BHEL's TCN-02 ref PSER:SCT: NBN-I1726:TCN-02 dated 01/03/16
	5.0	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 Due date of submission of offer is extended from 03/03/15 upto 05/03/15 at 15.00 hrs.
- 2.0 Revised ANNEXURE-III (PART-A Electrical Billing Schedule),R01 superseding earlier ANNEXURE-III (PART-A Electrical Billing Schedule) attached .
- 3.0 Revised ANNEXURE-III (PART-B C&I Billing Schedule),R01 superseding earlier ANNEXURE-III (PART-B-C&I Billing Schedule) attached .
- 4.0 Revised `No deviation certificate' as per enclosed Annexure-2. Bidder shall submit no deviation certificate as per enclosed format only.
- 5.0 All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HYEAVY ELECTRICALS LTD

DY MGR (SCT)

Encl : 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

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, testing, commissioning & handing over of Electrical & C&I system for boiler, ESP, TG Sets for Unit#2 of 4x250 MW Nabinagar TPP, Bihar.	
Ref	1.0	Tender No. PSER:SCT:NBN-I1726:16
	2.0	BHEL's NIT, vide reference no PSER: SCT:NBN-I1726:16:4881 dated 18/02/16
	3.0	BHEL's TCN-01, vide reference PSER:SCT:NBN-I1726:TCN-01, dated 29/02/16
	4.0	BHEL's TCN-02, vide reference PSER:SCT:NBN-I1726:TCN-02, dated 01/03/16
	5.0	BHEL's TCN-03, vide reference PSER:SCT:NBN-I1726:TCN-03, dated 03/03/16
	6.0	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)

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

CONTENT

Annexure-III (PART-A-Electrical- Billing schedule)-R01

	PART-A: Activities Covering Erection, Testing & Commissioning etc. The details of terms of payment shall be as under.	
A	100 % (hundred percent) payment of contract rate on pro-rata basis for the work completed as per following break-up shall be released as progressive payment, by the site authorities, on submission of protocols duly signed by BHEL site official(s)/ owner. Out of this 100 %, 1.5 % of gross bill value shall be paid in the following manner on certification by BHEL engineer after compliance of each of following activity in each month. In case of non-fulfilment of respective activity by contractor in each month, no payment shall be made by BHEL against corresponding activity and no claim of bidder at a later date, whatsoever, in this regard shall be entertained by BHEL.	
A.1	0.7 % shall be paid on compliance of house keeping of contractor's working area and store/ office areas.	
A.2	0.3 % shall be paid on compliance of general illumination of contractor's working area and stores, office area.	
A.3	0.3 % shall be paid on compliance of applicable OHSAS requirement as per guidelines of BHEL/ PSER and as specified in the tender.	
A.4	0.2 % shall be paid on compliance of applicable Safety requirement as per guidelines of BHEL/ PSER and as specified in the tender.	
Sl. No.	Description of work	% of unit rate
1	Cable tray, accessories & supporting structure	
	1.1	Fab. as reqd. fixing in position, painting etc. complete in all respect
	1.2	Laying of cables on trays
	1.3	Dressing and clamping & tagging of cable
	1.4	Tray covering
		Total =
		100%
2	Cable laying	
	2.1	Laying of cables
	2.2	Termination of cables & tagging
	2.3	Trial run/commissioning of connected equipment/system
	2.4	Dressing and clamping of cable
		Total =
		100%
3	Junction box/Push button station (local)	
	3.1	Erection including fabrication of supporting frame
	3.2	Fixing/testing of terminal block
	3.3	Commissioning of connected equipment
	3.4	Painting of supporting frame, name plate fixing
		Total =
		100%
4	Conduit/ other pipe etc.	
	4.1	Laying including fabrication/erection of supporting structure
	4.2	Completion of erection including end connection
	4.3	Dressing, clamping and tagging
	4.4	Testing & commissioning of associated equipment/system
		Total =
		100%
5	Misc. Structural steel support /Canopy	
	5.1	Fabrication of support /Canopy
	5.2	Erection of support /Canopy
	5.3	Painting of support /Canopy
	5.4	Completion of erection of connected equipment /Canopy
		Total =
		100%

6	Control panel/cubicle/desk/rack/Insert / UPS / Battery /		
	6.1	Receipt from store/yard, transportation to place of erection, placement, alignment including fabrication & erection of supporting frame	55%
	6.2	Fixing of loose items/instruments, charging	30%
	6.3	Loop testing and commissioning, Auto control commissioning	8%
	6.4	System commissioning	7%
		Total =	100%
7	Misc Equipment		
	7.1	Receipt of material, calibration/testing, checking, erection including fabrication and erection of supporting frame	60%
	7.2	Charging, local testing/commissioning & tagging	20%
	7.3	Remote testing/loop commissioning, Auto control commissioning	10%
	7.4	System commissioning	10%
		Total =	100%
8	SUPPLY OF ITEMS		
	13.1	Supply of Misc Items	100%
		Total =	100%
9	ACTIVITIES COVERING TESTING & COMMISSIONING ONLY		
	14.1	Fixing loose components	20%
	14.2	Local testing, checking, calibration, Remote testing & commissioning	50%
	14.3	Loop testing and commissioning, Auto control commissioning	20%
	14.4	System commissioning	10%
		Total =	100%

Annexure-III (PART-B-C&I- Billing schedule)-R01

	PART-B : Activities Covering Erection, Testing & Commissioning etc. The details of terms of payment shall be as under.	
B	100 % (hundred percent) payment of contract rate on pro-rata basis for the work completed as per following break-up shall be released as progressive payment, by the site authorities, on submission of protocols duly signed by BHEL site official(s)/ owner. Out of this 100 %, 1.5 % of gross bill value shall be paid in the following manner on certification by BHEL engineer after compliance of each of following activity in each month. In case of non-fulfilment of respective activity by contractor in each month, no payment shall be made by BHEL against corresponding activity and no claim of bidder at a later date, whatsoever, in this regard shall be entertained by BHEL.	
B.1	0.7 % shall be paid on compliance of house keeping of contractor's working area and store/ office areas.	
B.2	0.3 % shall be paid on compliance of general illumination of contractor's working area and stores, office area.	
B.3	0.3 % shall be paid on compliance of applicable OHSAS requirement as per guidelines of BHEL/ PSER and as specified in the tender.	
B.4	0.2 % shall be paid on compliance of applicable Safety requirement as per guidelines of BHEL/ PSER and as specified in the tender.	
Sl. No.	Description of work	% of unit rate
1	Cable tray, accessories & supporting structure	
	1.1	Fab. as reqd. fixing in position, painting etc. complete in all respect
		60%
	1.2	Laying of cables on trays
		20%
	1.3	Dressing and clamping & tagging of cable
		10%
	1.4	Tray covering as desired
		10%
	Total =	
		100%
2	Cable laying	
	2.1	Laying of cables
		60%
	2.2	Termination of cables & tagging
		20%
	2.3	Dressing & clamping of cable
		10%
	2.4	Trial run/commissioning of connected equipment/system
		10%
	Total =	
		100%
3	Junction box/Push button station (local)	
	3.1	Erection including fabrication of supporting frame
		65%
	3.2	Fixing/testing of terminal block
		15%
	3.3	Painting of supporting frame, name plate fixing
		10%
	3.4	Commissioning of Connected equipment
		10%
	Total =	
		100%

4	Conduit/impulse pipe/other pipe/copper tube/SS tube etc.		
	4.1	Laying including fabrication/erection of supporting structure	45%
	4.2	Completion of erection including end connection	35%
	4.3	Dressing, clamping and tagging	10%
	4.4	Testing & commissioning of associated equipment/system	10%
		Total =	100%
5	Misc. Structural steel support /Canopy		
	5.1	Fabrication of support /Canopy	45%
	5.2	Erection of support /Canopy	30%
	5.3	Painting of support /Canopy	15%
	5.4	Completion of erection of connected equipment /Canopy	10%
		Total =	100%
6	Control panel/cubicle/desk/ups/transmitter rack/Insert / UPS / Battery / PLC		
	6.1	Receipt from store/yard, transportation to place of erection, placement, alignment including fabrication & erection of supporting frame	55%
	6.2	Fixing of loose items/instruments, charging	30%
	6.3	System Commg- (Commg of Associated Instruments)	8%
	6.4	Interlock / Auto control commissioning	7%
		Total =	100%
7	Instrument/equipment		
	7.1	Receipt / verification of material, calibration/testing, checking, erection including fabrication and erection of supporting frame	60%
	7.2	Charging, local testing/commissioning & tagging	20%
	7.3	Remote testing/loop commissioning	10%
	7.4	System commissioning ,Interlock/ Auto control commissioning	10%
		Total =	100%
8	Control valve (excluding erection of valve but including erect. of accessories)		
	8.1	fixing loose components like AFR, tubing etc including fabrication & erection of supports	25%
	8.2	Local testing, checking & calibration.	30%
	8.3	Loop Checking ,Remote testing & commissioning	30%
	8.4	Interlock /Auto control commissioning	15%
		Total =	100%
9	Plant monitoring system		

	9.1	Placement and alignment, Interconnection of equipment & peripherals, cable laying & termination and fixing of loose items	30%
	9.2	Charging, Initialisation and configuring	20%
	9.3	Pre-commissioning, Commissioning, Signal checking	40%
	9.4	System commissioning completion	10%
		Total =	100%
10	Activities covering testing & commissioning only		
	10.1	Fixing loose components	15%
	10.2	Local testing, checking, calibration & commissioning	40%
	10.3	Loop testing and Remote commissioning, Interlok & Auto control commissioning	35%
	10.4	System commissioning	10%
		Total =	100%
11	Power Cylinders		
	11.1	Fabrication & erection of supports, erection of power cylinder, levelling & alignment, grouting etc.	40%
	11.2	Local testing, checking, calibration & commissioning	25%
	11.3	Loop testing , Remote commissioning, Interlock & Auto control commissioning	25%
	11.4	System commissioning	10%
		Total =	100%
12	SUPPLY ITEMS		
	12.1	Receipt of crimping lugs at site	100%
		Total =	100%