



# भारत हेवी इलेक्ट्रिकल्स लिमिटेड

( भारत सरकार का उपक्रम )

## BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

**TCN - 01**

Ref: PSER:SCT:SRG-I1737:TCN-01

Date: 19-04-2016

Sub	Tender Change Notice (TCN) - 01.	
Job	C&I PACKAGE-1- Erection, testing & commissioning of C&I system of "SG, TG, Station C&I of Unit#7" and C&I of "Fire protection system & offsite BOP pkg etc common for unit #7&8" of 2x660 MW, Stage-V, Unit#7&8 Suratgarh Thermal Power Plant, Rajasthan. & C&I PACKAGE-2- Erection, testing & commissioning of C&I system including SG, TG & Station C&I etc for Unit#8 of 2x660 MW, Stage-V, Unit#7&8 Suratgarh Thermal Power Plant, Rajasthan.	
Ref	1.0	Tender no PSER:SCT:SRG-I1737:16.
	2.0	BHEL's NIT, vide reference no PSER:SCT:SRG-I1737:4961, Dated 04-04-2016.
	3.0	Other References, if any.

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

- 1) Bidder's Clarification is attached vide **Annexure-A to TCN-01**.
- 2) Revised 'No deviation certificate' is attached. Bidder to submit 'No deviation certificate' as per attached format only.
- 3) All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,  
for BHARAT HEAVY ELECTRICALS LTD

Engineer (SCT)

Encl: As above.

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 : (033) 23398234/ 23398000

**ANNEXURE-A TO TCN-01**

**JOB: C&I PACKAGE-1- Erection, testing & commissioning of C&I system of "SG, TG, Station C&I of Unit#7" and C&I of "Fire protection system & offsite BOP pkg etc common for unit #7&8" of 2x660 MW, Stage-V, Unit#7&8 Suratgarh Thermal Power Plant, Rajasthan.**

**&**

**C&I PACKAGE-2- Erection, testing & commissioning of C&I system including SG, TG & Station C&I etc for Unit#8 of 2x660 MW, Stage-V, Unit#7&8 Suratgarh Thermal Power Plant, Rajasthan.**

**TENDER NO : PSER:SCT:SRG-I1737:16**

**CLARIFICATION OF BIDDERS' QUERY**

<b>SL NO</b>	<b>REFERENCE CLAUSE OF TENDER DOCUMENT</b>	<b>EXISTING PROVISION</b>	<b>BIDDER'S QUERY</b>	<b>BHEL'S CLARIFICATION</b>
1.0	Sl. No. N1 of Volume-III (Rev-00) - Price schedule - C & I Package-1	Mechanical lab items	Please confirm 1 set of how many nos of equipments.	The tentative list of Mechanical Lab items are given in Annexure-1. However, lumpsum rate to be quoted in Price schedule, Volume-III, item Sl. No. N1 taking into consideration variation in qty/item if required during execution.
2.0	Sl. No. N2 of Volume-III (Rev-00) - Price schedule - C & I Package-1	Electrical lab items	Please confirm 1 set of how many nos of equipments.	The tentative list of Electrical Lab items are given in Annexure-2. However, lumpsum rate to be quoted in Price schedule, Volume-III, item Sl. No. N2 taking into consideration variation in qty/item if required during execution.

**Annexure-1****Tentative list of Mechanical Lab items**

<b>Sl. No.</b>	<b>Item Description</b>	<b>Qty</b>	<b>Unit</b>
1	Manometer	1	Set
2	Manometer (Inclined tube)	1	No.
3	Manometer (U Tube)	1	No.
4	Test Manometer	1	No.
5	Master Pressure Gauge	1	Set
6	Air Set	1	No.
7	Pressure Comparator (Portable)	1	No.
8	Integrated Calibrator-Electronic and Pneumatic Instruments (Potable)	1	No.
9	Integrated Calibrator-Electronic and Pneumatic Instruments (Table Mounted)	1	No.
10	Vacuum Calibrator (Portable)	1	No.
11	Vacuum Calibrator (Table top mounted)	1	No.
12	Vacuum Pump/Compressor	1	No.
13	Dead Weight Tester	1	No.
14	Vacuum Tester	1	No.
15	High Precision Regulators for pressure and vacuum	2	Nos.
16	Precision Set Thermometers (Mercury in Glass)	1	No.
17	Test Thermocouple	2	Nos.
18	Temperature Calibrator (Portable)	1	No.
19	Temperature Calibrator (Table Top Mounted)	1	No.
20	Temperature Calibration Bath (oil)	1	No.
21	Laboratory Furnace	1	No.
22	Portable Field Electronic ICE Bath	1	No.
23	Sling Psychrometer	1	No.
24	Digital Infrared Pyrometer	1	No
25	Barometers	1	No
26	Aneroid Barometer	1	No
27	Wet & Dry Bulb Hygrometer	2	Nos.
28	Flue Gas Analyser (Portable)	1	No.
29	Ultrasonic Flow meter (Portable)	1	No
30	Grinding Wheel	1	No
31	Pneumatic Test Bench	1	No

**Annexure-2**

**Tentative list of Electrical Lab items**

<b>Sl. No.</b>	<b>Item Description</b>	<b>Qty</b>	<b>Unit</b>
1	Test RTD's	2	Nos
2	Mv Calibrator (portable)	1	Nos
3	Mv Calibrator (table mounted)	1	Nos
4	Ma Calibrator (portable)	3	Nos
5	Ma calibrator (table mounted)	1	Nos
6	Multifunction calibrator	1	Nos
7	Digital Multimeter (portable)	8	Nos
8	Digital Multimeter (table mounting type)	3	Nos
9	Function generator	1	Nos
10	High Resolution Timer/Count	1	Nos
11	Dual Trace Digital Storage oscilloscope	1	Nos
12	Dc Regulated power supply	1	Nos
13	Dc Battery Chargers	2	Nos
14	Adjustable AC power supply	1	Nos
15	Digital Tong tester	1	Nos
16	Single phase Auto transformer	1	Nos
17	Decade Resistance Box	1	Nos
18	Portable wheatstone bridge	1	Nos
19	Portable RCL Bridge	1	Nos
20	Rheostat	1	set
21	Insulation tester (megger)	3	Nos
22	Soldering & Desoldering station	2	Nos
23	Soldering iron with bits	2	Nos
24	Solder sucker	2	Nos
25	Digital Vibration meter (portable)	1	Nos
26	Vibration/ shock pulse analyser	1	Nos
27	Digital tachometer	1	Nos
28	Digital stop watch	2	Nos
29	Ph meter (portable)	1	Nos
30	Conductivity meter (portable)	1	Nos
31	Sound level monitor	2	Nos
32	Torximitor	2	Nos
33	AC power meter	1	Nos
34	Electronic test bench	1	Nos

**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	C&I PACKAGE-1- Erection, testing & commissioning of C&I system of "SG, TG, Station C&I of Unit#7" and C&I of "Fire protection system & offsite BOP pkg etc common for unit #7&8" of 2x660 MW, Stage-V, Unit#7&8 Suratgarh Thermal Power Plant, Rajasthan. & C&I PACKAGE-2- Erection, testing & commissioning of C&I system including SG, TG & Station C&I etc for Unit#8 of 2x660 MW, Stage-V, Unit#7&8 Suratgarh Thermal Power Plant, Rajasthan.	
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	3.0	BHEL's TCN-01, vide reference no PSER:SCT:SRG-I1737:TCN-01, Dated: 19-04-2016.
	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)

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