



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN – 02

Ref: PSER:SCT:NKP-B1744:TCN-02

Date: 26-05-2016

Sub	Tender change notice (TCN) 02	
Job	Erection, Testing and Commissioning of Main Boilers and Auxiliaries covering Structures, Pressure Parts, Rotating Machines, Ducts, ESP, Fuel firing system, Various SG/Critical/Misc. Piping etc. along with integrated Mill Bunker Structures of Unit # 2 including fabrication , erection and painting of Fire Water Storage Tanks at of 3x660 MW North Karanpura Project, Jharkhand.	
Ref	1.0	Tender No. PSER:SCT: NKP-B1744:16
	2.0	BHEL's NIT, vide reference no PSER:SCT:NKP-B1744:5029 Date: 20-05-2016
	3.0	BHEL's TCN-01, vide reference no PSER:SCT:NKP-B1744:TCN-01, dated 25-05-2016.
	4.0	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 query as per attached Annexure-A.
- 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

SR.ENGR (SCT)

Encl : As above.

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

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

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ANNUXURE-A TO TCN-02

Erection, Testing and Commissioning of Main Boilers and Auxiliaries covering Structures, Pressure Parts, Rotating Machines, Ducts, ESP, Fuel firing system, Various SG/Critical/Misc. Piping etc. along with integrated Mill Bunker Structures of Unit # 2 including fabrication , erection and painting of Fire Water Storage Tanks at of 3x660 MW North Karanpura Project, Jharkhand.

Tender No. PSER:SCT: NKP-B1744:16

SI No	Reference clause of Tender Document	Existing provision	Bidder's Query	BHEL's clarification
1	Clause 4 on page 19 of 24 of Annexure- A, amendment to GCC / SCC and Cl. 54.3 on page 63 of 90 of TCC	Clause 4.0-The quantities given in the contract..... ..(-) 15% of awarded contract value Clause 54.3- The quantities(+_)15% of CV	Please confirm if the contract value exceeds \pm 15%, what compensation shall be payable to contractor..	Shall be as per GCC.
2	Clause 5.10.2 page 18 of 90 TCC	Painting of all exposed ----- rounded before painting	Please confirm that cleaning by other method shall mean only by wire brush/ emery paper which is a normal practice and use of power tool not envisaged, as surface is already shop painted. BHEL may specifically clarify what suitable tools are required for cleaning, as cost difference between cleaning by wire brush and cleaning by tool is too high. Also confirm that primer coat shall be applied on power cycle piping only.	Suitable method with necessary tool shall require to be applied for thoroughly cleaning purpose. All applicable surfaces and un-insulated piping surfaces shall have to be painted with two coats of primer of red-oxide zinc chromate (IS-2074).
3	Clause 5.10.1 line 5 on page 18 on 90 of TCC	It is mentioned that painting schedule of boiler and aux is enclosed	We do not find the painting schedule in tender specification please provide the same in order to evaluate the labour cost.	Shall be provided during execution of job.
4	Clause 5.45.16 on page 35 of 90 of TCC	After the start ofattributable to the contractor	Please confirm the approximate period of deployment of workmen so that proper costing can be done.	Till completion of PG Test and handing over of the unit to Customer.
5	Clause 5.45.25 on page 36 of 90 of TCC	Commissioning / inspection ----- towards handing over	Please confirm the list of equipments (other appliance), so that period of electrical inspector/CEA representative can be assessed as it cost heavily. Any statutory fee required to be paid to electrical inspector/CEA shall be borne by BHEL. Please confirm.	Each Unit as a complete system shall be considered for PG Test performance and handing over to the Customer. The statutory fee for Electrical Inspector/CEA shall be reimbursed by BHEL at actuals against documentary evidence.
6	Clause 6.17 page 37 of 90 of TCC	Certified instrument. reconciliation of material	Please confirm how contractor shall be responsible for reconciliation of material after instruments are dismantled by boiler contractor and handed over to BHEL	Vendor shall reconcile the instruments/items which will be dismantled for calibration purpose from its assembled/mounted condition.
7	Clause 21.1.4 on page 48 of 90 of TCC	Land may be provided. sanitation facilities	It is mentioned that land may be provided for labour colony on availability. As huge amount is involved for acquiring land as such please confirm whether land shall be provided by BHEL or is to be arranged by	Land shall be provided by BHEL on temporary basis as per availability from Customer.
8	Clause 21.3.4 of page 49 of 90 line 2 of TCC	The contractor Work is not affected	As this is Mechanical Contract the word "slip form concreting" should be deleted	"Slip form concreting" stands deleted.
9	Clause 21.3.6 on page 49 of 90 of TCC	Bidder have to make supply can be arranged	The clause is contradictory; please confirm if power is to be supplied by BHEL for labour colony on chargeable basis.	BHEL shall not provide power for labour colony & vendor by themself have to arrange power source for the labour colony, however, BHEL shall render all necessary help and support in it.
10	Clause 24 on page 51 of 90 line 2 of TCC	It is mentioned that civil work.	As this is a mechanical contract the word civil work is to be deleted	Minor Civil works associated with the erected equipment by the vendor are in their scope of job.

ANNUXURE-A TO TCN-02

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Tender No. PSER:SCT: NKP-B1744:16

SI No	Reference clause of Tender Document	Existing provision	Bidder's Query	BHEL's clarification
11	Clause 27.6 on page 51 of 90 and clause 36.3 page 54 of 90	Clause 27.6 All site execution.....at his own cost Clause 36.3 All arrangement.....at his cost	As it is a mechanical contract, Please confirm approx. quantum of back fillings so that proper costing can be done	Back-filling & consolidation of ground shall be done by the vendor as per requirement for movement of cranes, Trailers & Trucks etc.
12	Sr. No. 1.11 of price schedule	Fabrication and erection of Misc. structure	We do not find the terms of payment for Fabrication and erection in tender specification please provide same.	Pl. refer clause no. 51.10 of TCC (Vol-1F) at Page no. 61 of 90
13	Serial no. 8 of Price schedule REV-00- Preamble on page 1 of 2	BHEL reserve the right awarded to the bidder	This clause seems to be super fluous and should not be applicable to this contract. please confirm	This clause is not applicable for this package.
14	Serial no. 10 of Price schedule REV-00- Preamble on page 1 of 2	Rates shall be quoted in English language	As there is no column provided for quoting the rates in words and also there is no space for writing the rates in words in column provided, please confirm that rates shall be written in figures only.	Rates in figure & word (within bracket) shall be indicated .
15	Appendix-III, major T&P deployed by contractor on page 86 of 90	Crawler Crane 150 MT, 80/100 MT / Tyre mounted 40 MT capacity and Flat Bed Trailer 60-70 MT capacity.	Please confirm the period of deployment of these cranes and Trailer.	During execution of as per job requirement.
16	Appendix II : T&P provided by BHEL and Appendix III T&P deployed by contractor on page 86 & 87 of 90	T&P by BHEL: 0-800 kg/sq.cm HT pump T&P by Contractor 0-400 kg/sq.cm HT pump	As Hyd. Test Pump of 0-800 KG/Sq.CM shall be provided by BHEL, we feel that there is no need of 0-400 KG/sq. cm. as the requirement of pump is for a very short period. Please clarify.	All the T&Ps as Appendix-III of TCC are required for execution of job.
17	Appendix III on page 87 of 90 of TCC	Welding Generator	Please confirm that welding rectifier can also be used instead of Welding generator.	Bidders to follow the Tender condition.
18	Clause 48.7 on page 58 of 90 of TCC	Service tax along.....gross bill.	In addition to service tax, the Swaach Bharat cess also will be reimbursed by BHEL to contractor	YES
19	Clause 48.2 on page 57 of 90 of TCC	All taxes All Taxes (excluding Service Tax)..... payable extra.	Necessary registration for BOCW shall be obtained by contractor. As BOCW cess is the responsibility of owner. Please clarify that BOCW cess shall not be deducted from Contractor's RA Bill.	As per Tender.
20	Clause 5.5 on page 6 of 90 & Appendix-1 (Approx weight) on page 64 of 90 of TCC	Bunker and Bunker structure	As the Bunker structure is in the scope of this tender. Please confirm that fabrication or erection of Bunker and hopper with SS lining is excluded from the Tender.	Fabrication of Bunker and Hopper with SS Lining is not in the scope of this Tender.

ANNUXURE-A TO TCN-02

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21	Clause 5.44.23 on page 32 of 90 and major T&P's to be deployed by contractor on page 86 of 90 of TCC	Clause 5.44.23 Facility To Be Provided By BHEL For P-91 Welding, Free of Charges T&P's to be deployed by the contractor No. 5: Induction heating equipment shall be provided by contractor	As per clause 5.44.23, the required number of Induction heating Machine with accessories shall be provided by BHEL free of cost. However, as per list of T&P's deployed by contractor the Induction Heating Machine is shown in the scope of contractor. Please confirm that Induction Heating machine shall be provided by BHEL free of cost.	Deployment of Induction Heating machines with all accessories is in the scope of Bidder. Bidders are requested to follow TCN-01 to the Tender for the same.
22	Clause 2.12 of Amendment to GCC/SCC(ORC) on page 18 of 24 of NIT And Clause 49.A (PVC) on page 59 of 90 of TCC	Clause 2.12 a) Existing Clause 2.12.2of Rs 5,00,000/-per month" Clause 49.A Price variation (PVC) shall.....10 % of Contract Price.	Please confirm that PVC which is payable as per Clause 49.A on page 59 of 90 of TCC shall be payable on revised rate as per clause 2.12 of Amendment to GCC/SCC of NIT	Clause No. 49.A of TCC (Vol-1F) shall not be applicable on revised rates indicated in cl. no. 2.12 of GCC (refer Annexure-A of NIT).
23	Clause 5.9.17 on page 16 of 90 of TCC	BHEL will provide free of cost...arranged by the contractor.	Please confirm that material for preparation of packers and shims shall be provided by BHEL free of cost.	Scrap steel plates/ steel sheets shall be provided on free issue basis for preparation of packers and shims.
24	Clause 5.40.19 on page 21 of 90 of TCC	The steel shall be.....contractor from BHEL stores.	The steel is issued by BHEL on weightment basis but the measurement for payment as well as for accounting shall be based on the sectional weight. We feel that the measurement for issuing and payment should be same either on weightment basis or sectional weight basis as there is wide margin between the two.	This is the standard procedure for Steel fabrication job and the same procedure shall be followed for this job also. Payment for this work shall be made as per payment terms of the tender.
25	Clause 5.42.16 on page 23 of 90 of TCC	Although, only Ir-92....contractor, if required.	As BARC normally do not permit the use of Cobalt-60 source, as such we shall use Ultrasonic testing whenever Radiography with IT-192 is not possible	Bidders to follow the Tender condition.

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26	Clause 5.10.7 on page 19 of 90 of TCC	Finish Painting.....Fire WaterStorage Tanks	<p>The procedure of painting of water storage tank as given in tender is given below.</p> <p>1) Internal Painting of the Tank a) Primer- One coat of 30-35 micron b) Paint- Three coats of epoxy resin based finish paint with 25 micron as thickness of each coat. c) Total thickness of primer and paint is 400 micron</p> <p>You will observe from the above that the total thickness of primer and finish painting comes to 105 micron, whereas the total thickness is mention as 400 micron. Please clarify</p> <p>2) External Painting of the Tank a) Primer- One coat of 30-35 micron b) Paint- Three coats of epoxy resin based finish paint with 25 micron as thickness of each coat. c) Total thickness of primer and paint is 300 micron</p> <p>You will observe from the above, the total thickness of primer and finish painting comes to 105 micron, whereas the total thickness is mention as 300 micron. Please clarify</p>	<p>Specified total thickness of primer and paint (min. 400 micron for internal painting and min. 300 micron for external painting of Tanks) is to be followed by applying suitable no. of coats of Primer and paints.</p> <p>Indicated no of coats and thickness of each coat for primer and paint are the basic minimum requirements.</p>
27	Clause 3 on page 1 of 90 of TCC and BOM of Water Storage Tank given on page 83 of 90 of TCC	The scope covers.....in Chatra district, Jharkhand.	As per clause 3, 2 numbers fire water storage tank is in the scope of this tender. Please confirm that BOM as given on page 83 of 90 is for 1 number or 2 number tank.	Pl. refer GA drawing (Drg. No. TSPL-P317-GAD-101, Rev-A) of Tanks at the last page of TCC (Vol.-1F).
28	Clause 17.1 (which is mentioned twice) on page 42 of 90 and Appendix 2 T&P provided by BHEL on page 85 of 90 of TCC	<p>Clause 17.1 One Passenger lift should be installed for each unit within 6 months of starting work at site. Travel of the lift should be extended up to Boiler top. Passenger lift should have safety cage with multiple rope, i.e. with safety rope & limit switches etc.</p> <p>List of T&P provided by BHEL Sl. No 3 - Passenger Elevator- as per requirement</p>	Since contractor has to erect and operate the elevator provided by BHEL free of cost as such technical specification such as travel of the lift should be extended up to Boiler top and Passenger lift should have safety cage with multiple rope, i.e. with safety rope & limit switches etc. is to be taken care by BHEL while providing the elevator	BHEL shall provide passenger elevators free of cost and the bidders scope includes erection and operation of the elevators with due compliance of all the necessary safety norms and regulations.

ANNUXURE-A TO TCN-02

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29	Sr. No. 3 of amendment to GCC/SCC on page 18 of 24	Existing clause 2.12.2 of GCC ----- maximum of Rs.5.00 Lacs	Please confirm that due to revision beyond contract period the increase amount for work done in a month is below Rs.1.00 lacs, please confirm what amount shall be payable to contractor	Please refer cl. no. 3.0 Clause 2.12 of GCC - please refer Annexure-A of NIT.
30	Clause 6.26 on page 38 of 90 of TCC	The contractor shall arrange in this regard	In line 5th and 9th the word should be Jharkhand Boiler Directorate instead of Bihar	This word may be read as "Bihar/Jharkhand" as applicable for North Karanpura Project.
31	Clause 6.29 and 6.30 on page 38 of 90 of TCC.	Supply auxiliary boiler operation of the unit Vendor to note clause 50.1.10	These clause are meant for auxiliary boiler as such should be deleted as scope of work does not include auxiliary boiler	Clause no. 6.29 of TCC (Vol-1F) is DELETED.
32	Clause 26.1 on page 51 of 90 of TCC	Availability of experienced provided by BHEL	Normally the ambulance facilities including driver shall be provided by the contractor of unit – I and III, please confirm that the same ambulance shall be shared by contractor of unit – II	Shall be as per Tender condition.
33	General		We feel that certain conditions given under Price Schedule- Preamble on page 1 of 2 are for civil work and not relevant to this contract, please confirm that conditions applicable to this contract shall only prevail.	Conditions specifically applicable for Civil & BOP (i.e. sl. nos. 8,15,16,18 & 22) packages are not applicable.
34	General		After Clause No. 5.10.7, Clause No. 5.40 is indicated on page 19 of 90, please confirm that clauses 5.11 to 5.39 are not applicable.	Subsequent to Clause No. 5.10.7 is Clause No. 5.40

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 and Commissioning of Main Boilers and Auxiliaries covering Structures, Pressure Parts, Rotating Machines, Ducts, ESP, Fuel firing system, Various SG/Critical/Misc. Piping etc. along with integrated Mill Bunker Structures of Unit # 2 including fabrication , erection and painting of Fire Water Storage Tanks at of 3x660 MW North Karanpura Project, Jharkhand.	
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	4.0	BHEL's TCN-02, vide reference no PSER:SCT:NKP-B1744:TCN-02, dated 26-05-2016.
	5.0	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)

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