



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 04

Ref: PSER:SCT: NKP-M1657:TCN-04

Date: 17-04-2015

Sub	Tender Change Notice (TCN) - 04.	
Job	Design, engineering, manufacturing, supply, erection, testing, commissioning, etc including O&M of Air Conditioning System for 3x660 MW North Karanpura Super Thermal Power project, Jharkhand.	
Ref	1.0	Tender No. PSER:SCT:NKP-M1657:15.
	2.0	BHEL's NIT, vide reference no PSER:SCT:NKP-M1657:4365 , Dated 10-03-2015.
	3.0	BHEL's TCN-01, vide reference no PSER:SCT: NKP-M1657:TCN-01, Date: 30-03-2015
	4.0	BHEL's TCN-02, vide reference no PSER:SCT: NKP-M1657:TCN-02, Date: 02-04-2015
	5.0	BHEL's TCN-03, vide reference no PSER:SCT: NKP-M1657:TCN-03, Date: 15-04-2015
	6.0	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. Clarification is attached vide **Annexure-A to TCN-04.**
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

Sr.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 : 23211798/ 1691

ANNEXURE-A TO TCN-04

TENDER NO : PSER:SCT: NKP-M1657:15.

JOB: DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING, COMMISSIONING, ETC INCLUDING O&M OF AIR CONDITIONING SYSTEM FOR 3X660 MW NORTH KARANPURA SUPER THERMAL POWER PROJECT, JHARKHAND.

CLARIFICATION OF BIDDERS' QUERY

SL NO	REFERENCE CLAUSE OF TENDER DOCUMENT	EXISTING PROVISION	BIDDER'S QUERY	BHEL'S CLARIFICATION
1			We would once again request you to kindly provide us the Chilled Water Schematic drawing for calculating the Valves & Instrument required for chilled water system Main CR Areas, Service Building Areas & Administrative Building. From the specification it is not clear that type of valves/instrument and how many numbers are required for the system. We are not able to calculate the valves/instrument without the Chilled Water Schematic drawing.	PID IS TO BE DEVELOPED BY SUCCESSFUL BIDDER IN LINE WITH SPECIFICATION REQUIREMENT DURING DETAIL ENGINEERING STAGE WHICH SHALL BE SUBJECT TO APPROVAL BY CUSTOMER WITHOUT ANY COMMERCIAL IMPLICATION. SLD DRAWING IS NOT REQUIRED FOR THE SAME. COMPLETE JOB OF DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING, COMMISSIONING, ETC INCLUDING O&M OF AIR CONDITIONING SYSTEM IS IN BIDDER'S SCOPE. BIDDERS ARE REQUESTED TO QUOTE ACCORDINGLY.
2			We would once again request you to kindly confirm the capacity of the Water Softening Plant required for Main CR Areas, Service Building Areas & Administrative Building Areas. We will design the water softening plant based on the water quality requirement of AC plant.	WATER SOFTENING PLANT SHALL BE DESIGNED TO MEET THE CONTINUOUS MAKE UP WATER REQUIREMENT FOR AC PLANT. CLARIFIED WATER ANALYSIS REPORT IS ATTACHED WITH TECHNICAL SPECIFICATION TO DESIGN THE WATER SOFTENING PLANT. QUALITY OF SOFT WATER COMING OUT OF WATER SOFTENING PLANT SHALL BE SUITABLE FOR EQUIPMENT OF AC PLANT. COMPLETE JOB OF DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING, COMMISSIONING, ETC INCLUDING O&M OF AIR CONDITIONING SYSTEM IS IN BIDDER'S SCOPE. BIDDERS ARE REQUESTED TO QUOTE ACCORDINGLY.
3			We would once again request you to kindly provide us the control philosophy for the PLC system for calculating the I/O summary for the system.	PREPARATION OF I/O SUMMARY / CONTROL PHILOSOPHY IS IN BIDDER'S SCOPE. COMPLETE JOB OF DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING, COMMISSIONING, ETC INCLUDING O&M OF AIR CONDITIONING SYSTEM IS IN BIDDER'S SCOPE. BIDDERS ARE REQUESTED TO QUOTE ACCORDINGLY.
4			We would once again request you to kindly provide us the instrument list required for Auditorium Building otherwise provide us the P&I diagram of the instrument for Auditorium Building .	INSTRUMENT LIST SHALL BE SUBMITTED BY BIDDER TO MEET ALL FUNCTIONAL CONTROL OF AC PLANT. COMPLETE JOB OF DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING, COMMISSIONING, ETC INCLUDING O&M OF AIR CONDITIONING SYSTEM IS IN BIDDER'S SCOPE. BIDDER'S ARE REQUESTED TO QUOTE ACCORDINGLY.
5			Kindly provide us the detail layout drawing along with elevation detail of the following:-	

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CLARIFICATION OF BIDDERS' QUERY

SL NO	REFERENCE CLAUSE OF TENDER DOCUMENT	EXISTING PROVISION	BIDDER'S QUERY	BHEL'S CLARIFICATION
5.1			a) Service Building- We would once again request you to kindly provide us the layout and elevation drawing for calculating the Chilled Water & condenser water piping required for Service Building Areas.	SERVICE BUILDING IS G+4, GRIHA 3 STAR RATED BUILDING WITH TOTAL FLOOR AREA OF 5500 SQM.LAYOUT & ELEVATION SHALL BE FURNISHED TO SUCCESSFUL BIDDER DURING DETAIL ENGINEERING STAGE. COMPLETE JOB OF DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING, COMMISSIONING, ETC INCLUDING O&M OF AIR CONDITIONING SYSTEM IS IN BIDDER'S SCOPE. BIDDERS ARE REQUESTED TO QUOTE ACCORDINGLY.
5.2			b) Administrative Building- We would once again request you to kindly provide us the layout and elevation drawing for calculating the Chilled Water & condenser water piping required for Administrative Building Areas.	ADMIN BUILDING IS G+6 BUILDING GRIHA 3 STAR RATED, WITH TOTAL FLOOR AREA OF 5500 SQM.LAYOUT & ELEVATION SHALL BE FURNISHED TO SUCCESSFUL BIDDER DURING DETAIL ENGINEERING STAGE. COMPLETE JOB OF DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING, COMMISSIONING, ETC INCLUDING O&M OF AIR CONDITIONING SYSTEM IS IN BIDDER'S SCOPE. BIDDERS ARE REQUESTED TO QUOTE ACCORDINGLY.
5.3			c) Water System control room building- We would once again request you to kindly provide us the layout and elevation drawing for calculating the condenser water piping required for water cooled packaged unit for Water System control room building.	LAYOUT & ELEVATION SHALL BE FURNISHED TO SUCCESSFUL BIDDER DURING DETAIL ENGINEERING STAGE. COMPLETE JOB OF DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING, COMMISSIONING, ETC INCLUDING O&M OF AIR CONDITIONING SYSTEM IS IN BIDDER'S SCOPE. BIDDERS ARE REQUESTED TO QUOTE ACCORDINGLY.
5.4			d) Auditorium Building- We would once again request you to kindly provide us the layout and elevation drawing for calculating the condenser water piping required for water cooled packaged unit for Auditorium Building.	AUDITORIUM IS GRIHA 3 STAR RATED BUILDING, WITH TOTAL FLOOR AREA OF 1000 SQM AND SEATING CAPACITY OF 150 PERSONS.LAYOUT & ELEVATION SHALL BE FURNISHED TO SUCCESSFUL BIDDER DURING DETAIL ENGINEERING STAGE. COMPLETE JOB OF DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING, COMMISSIONING, ETC INCLUDING O&M OF AIR CONDITIONING SYSTEM IS IN BIDDER'S SCOPE. BIDDERS ARE REQUESTED TO QUOTE ACCORDINGLY.

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CLARIFICATION OF BIDDERS' QUERY

SL NO	REFERENCE CLAUSE OF TENDER DOCUMENT	EXISTING PROVISION	BIDDER'S QUERY	BHEL'S CLARIFICATION
6	VOL-III_A_M1657 - AC Plant 1 / BOQ Item No. 17 & 18 / Page 9 of 36, AC Plant 5 / BOQ Item No. 14 & 15 / Page 11 of 36 & AC Plant 6 / BOQ Item No. 14 & 15 / Page 13 of 36		For calculating the heat load, detail layout drawing is required for all the building.	REFER SL NO 1 ABOVE. FURTHER LAYOUT OF CONTROL ROOM, ESP CONTROL ROOM HAVE ALREADY BEEN PROVIDED. ALSO NOTE THAT THE DETAILS HAVE BEEN PROVIDED WHEREVER THE LAYOUT ARE NOT AVAILABLE. BIDDERS ARE REQUESTED TO QUOTE ACCORDINGLY.
7			Detail layout drawing is required for Heat Load calculation for heater & humidifier.	REFER SL NO 6 ABOVE.
8			Kindly confirm the clause no. / page no. for the criteria for selecting the fresh air fan capacity.	REFER PAGE NO 71 OF 494, SECTION C 2-A, CLAUSE NO. 4 OF TECHNICAL SPECIFICATION.
9			From the price schedule & technical specification, we understand that Smoke Exhaust Fans are not required for system. Kindly confirm the same. We would once again request you to kindly confirm the same.	REFER TECHNICAL SPECIFICATION.
10	VOL-III_A_M1657 - AC System for Aux. Building for unit # 1,2 & 3 / BOQ Item No. 3,4 & 5 / Page 17 of 36		We would request you to kindly provide the detail layout drawing otherwise confirm the distance between indoor & outdoor unit for Air Cooled Precision Package AC, Air Cooled Package Unit & Air Cooled Split Unit.	SAME SHALL BE DECIDED DURING DETAIL ENGINEERING TO SUIT THE SYSTEM AND LAYOUT AS PER ACTUAL SITE CONDITION & THE SAME SHALL BE EXECUTED BY THE SUCCESSFUL BIDDER TO WITHOUT ANY IMPLICATION. FURTHER REFER SL NO 6 ABOVE.
11	VOL-III_A_M1657 - SCH-8 - OPERATION & MAINTENANCE (O&M) PRICE BREAK-UP/ BOQ Item No. 1.1b & 1.1c / Page 34 of 36		Kindly confirm the capacity of AC Plant 1 for Unit-2 & Unit - 3. Plant capacity is required for calculating the cost of round the clock operation and maintenance of the AC plant 1,2 & 3 separately. Kindly confirm the same.	BIDDER TO NOTE THAT THERE IS COMMON AC PLANT FOR UNIT-1, UNIT-2 & UNIT -3. FOR CAPACITY, PLEASE REFER BOQ/TENDER. BIDDERS ARE REQUESTED TO QUOTE ACCORDINGLY.
12	VOL-III_A_M1657 - AC Plant 1 / BOQ Item No. 6 / Page 7 of 36	FAN COIL UNIT consisting of chilled water cooling coil, blower, motor, driveset, filters (prefilter), 3way motorised mixing valve with thermostatic controls	Kindly confirm us that BHEL will provide the power to the FCU, Motorized Valve Actuator & Thermostat. Vendor will provide the control cabling between Thermostat & Motorised Valve actuator. Scope is not clear. Kindly clarify.	FOR FEEDER OF MOTORISED VALVE, FIRE DAMPER AND INSTRUMENTS, BIDDER TO REFER PAGE NO. 31 OF 494, SECTION - C1, CLAUSE NO. 5.13. I). FOR FEEDER OF OTHER EQUIPMENTS, BIDDER TO REFER THE PAGE NO. (216 - 218) OF 494, SECTION - C3, ELECTRICAL SCOPE SHEET.
13			Kindly confirm us that BHEL will provide the power to the AHU Fan Motor, 3 Way Modulating Valve actuator, Fresh Air Fan Motor, Heater, Humidifier & other instrument like Pressure Switch, Temperature Sensor, RH Sensor, Air Stat, Gyser Stat etc. Scope is not clear. Kindly clarify.	FOR FEEDER OF MOTORISED VALVE, FIRE DAMPER AND INSTRUMENTS, BIDDER TO REFER PAGE NO. 31 OF 494, SECTION - C1, CLAUSE NO. 5.13. I). FOR FEEDER OF OTHER EQUIPMENTS, BIDDER TO REFER THE PAGE NO. (216 - 218) OF 494, SECTION - C3, ELECTRICAL SCOPE SHEET.

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14			Kindly confirm the static pressure of all the AHUs. Nothing is mentioned on the static pressure of the AHU in the BOQ & specification. Kindly confirm the same.	PLEASE REFER BOQ/RATE SCHEDULE, BIDDER TO SELECT AS PER SYSTEM REQUIREMENT, WHEREEVER THE SAME IS NOT MENTIONED. COMPLETE JOB OF DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING, COMMISSIONING, ETC INCLUDING O&M OF AIR CONDITIONING SYSTEM IS IN BIDDER'S SCOPE. BIDDERS ARE REQUESTED TO QUOTE ACCORDINGLY.
15	VOL-III-M1657 - BOQ Item No. G.7 / Page 15 of 36		Kindly confirm type of finishing (Black Nitrile Rubber / Nitrile Rubber al. foil faced/ Nitrile Rubber GC cloth faced) required for thermal insulation of ducts if the insulation material is Nitrile Rubber.	AS PER TECHNICAL SPECIFICATION, FINISH SHALL BE AS PER MANUFACTURER STANDARD FOR NITRILE RUBBER.
16	VOL-III-M1657 - BOQ Item No. G.1 / Page 15 of 36	GSS zinc coating 275 gms/ m2 ducting	We would once again request you to kindly accept 120 GSM zinc coating for ducting sheet	REFER TENDER SPECIFICATION.
17	SUB-SECTION-IIA-09 PLANT UTILITY / Page 9 of 11 / Clause 4.00.00 d) & e)	Day light sensor, CO2 sensor and Occupancy sensors	As per the specification and BOQ we understand that Day light sensor, CO2 sensor and Occupancy sensors shall not be in tenderer scope. Scope is not clear. Kindly clarify.	REFER TENDER SPECIFICATION.
18	VOLUME - IA / GENERAL CONDITIONS OF CONTRACT (SUPPLY) / Page 10 of 22 / Clause 7.3	any statutory alternation be made based on the rate prevailing at the time of tendering, the difference for excise duty & sales tax only, either up or down, will be to the account of BHEL. No variations on customs duty / exchange rate / minimum wages, prices of controlled commodities or any other input shall be payable by BHEL.	We would once again request you to kindly accept the statutory variation for all applicable taxes and duties.	SHALL BE AS PER TENDER PROVISION.
19			We understand that BOCW is not applicable in this contract from the GCC & SCC of tender document. Kindly confirm the same. Nothing is mentioned on this clause. Please confirm.	BOCW IS APPLICABLE FOR THIS CONTRACT AS THE SAME IS MENTIONED IN SCC, VOL-ID, CL. NO. 8.32.7.
20			We would once again request you to kindly incorporate the foreign exchange variation clause in the tender.	SHALL BE AS PER TENDER PROVISION.
21	VOLUME - IA / GENERAL CONDITIONS OF CONTRACT (SUPPLY) / Page 20 of 22 / Clause 34.4	If after the Engineer has given written notice of this decision to the party, no claim to arbitration has been communicated to him by the party within 30 days from the receipt of such notice, the said decision shall become final and binding on the parties. In the event the contractor being dissatisfied with any such decision or if amicable settlement can not be reached then all such disputed issues shall be referred to the sole arbitration of the person appointed by the General Manager of BHEL.	We would once again request you to accept the arbitration shall be as per the Arbitration Act 1996. Sole Arbitration appointed by GM of BHEL is not acceptable.	SHALL BE AS PER TENDER PROVISION.

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22			We would once again request you to kindly incorporate the escalation clause in case the contract goes beyond the schedule completion period which is not attributable by us.	ESCALATION (PVC) IS NOT APPLICABLE AS PER TENDER PROVISION.
23	VOLUME-IC, R-00 / SPECIAL CONDITIONS OF CONTRACT (SUPPLY) / Page 16 of 18 / Clause 39	The contractor shall warrant that the equipment will be new and in accordance with the contract documents and free from defects arising due to deficiencies in design and engineering and from defects in material and workmanship for a period of twelve (12) calendar months commencing immediately upon the satisfactory completion of trial operations and handing over. The equipment shall operate satisfactorily and reliably and the performance and efficiency of the equipment (s) shall not be less than the respective guaranteed values.	We would request you to kindly accept the warranty/DLP will expire upon max of 12 months from the date of commissioning/18 months from the date of despatch, whichever is earlier.	SHALL BE AS PER TENDER PROVISION & TCNs.

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	Design, engineering, manufacturing, supply, erection, testing, commissioning, etc including O&M of Air Conditioning System for 3x660 MW North Karanpura Super Thermal Power project, Jharkhand.	
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	03	BHEL's TCN-01, vide reference no PSER:SCT: NKP-M1657:TCN-01, Date: 30-03-2015.
	04	BHEL's TCN-02, vide reference no PSER:SCT: NKP-M1657:TCN-02, Date: 02-04-2015.
	05	BHEL's TCN-03, vide reference no PSER:SCT: NKP-M1657:TCN-03, Date: 15-04-2015.
	06	BHEL's TCN-04, vide reference no PSER:SCT: NKP-M1657:TCN-04, Date: 17-04-2015.
	07	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)

<p>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</p>
