



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN – 01

Ref: PSER:SCT:NKP-M1632:TCN-01

Date: 20-12-2014

Sub	Tender change notice (TCN) 01	
Job	Design, engineering, manufacturing, supply/ delivery, erection, commissioning, trail run, handing over to customer, etc of Compressed Air System for NTPC, 3x660 MW, North Karanpura Super Thermal Power Project, Jharkhand.	
Ref	1.0	Tender No. PSER:SCT:NKP-M1632:14
	2.0	BHEL's NIT, vide reference no PSER:SCT:NKP-M1632:14:4102 , Dated 04-12-2014.
	3.0	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 The clarifications to bidders queries are attached at [Annexure-A](#).
- 2.0 [Additional Drawing to Volume-II, Technical Specification \(PIDs, OGA_WITH_SILENCER, EQPT LAYOUT PLAN AT +0.0M, EQPT LAYOUT PLAN AT +8.5M, EQPT LAYOUT PLAN AT +17M & PLOT PLAN\)](#) is attached herewith.
- 3.0 Revised 'No deviation certificate' as per enclosed [Annexure-2](#). Bidder shall submit no deviation certificate as per enclosed format only.
- 4.0 All other terms & conditions shall remain unchanged.

Thanking you,

Yours faithfully,
for BHARAT HEAVY ELECTRICALS LTD

ENGR (SCT)

Encl

1.0 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

ANNEXURE-A to TCN- 01				
Design, engineering, manufacturing, supply/ delivery, erection, commissioning, trail run, handing over to customer, etc of Compressed Air System for NTPC, 3x660 MW, North Karanpura Super Thermal Power Project, Jharkhand.				
Tender No. PSER:SCT:NKP-M1632:14				
Sl No.	Ref. clause of Tender Document	SUBJECT	BIDDER'S QUERY	BHEL'S CLARIFICATION
1	Volume - III, Annexure - VI, Reference Drg for Tender Estimation purpose	PLOT PLAN, EQUIPMENT PLAN LAYOUT	The Drgs are not legible. Pls send the legible copies of the same. No Drgs related to P&ID. Room size, etc, are provided. Pls provide the same.	Ligible dwgs. attached. (TCN-01)
2	SPECIFICATION NO. - PE-TS-405-555-A001 VOLUME-IIB, SECTION-C.1, Clause No. 1.1.14 & 3.1	HT Motors for air compressors	Since HT Motors is not in ELGi's scope & is a free issue to the manufacturer, hence pls clarify the KV of the Motor & the efficiency of your supplied motor to be considered to calculate the Power Consumption at HT Motor input terminal. Also, pls specify under whose scope is the compressor signal cable from HT Starter panel to compressor motor. Also,pls be noted that all the HT Motors (except Mandatory Spare Motor) shall be free issued / delivered to Samsung, Korea works for fitment & subsequent testing with the compressors.	01.) Bidder to note that all motors shall be delivered to manufacturer's registered works in India as per specification. 02.) Bidder to note that voltage supply to HT motor is of 3.3 KV. Efficiency of motor shall be confirmed during detail engineering only. However, tentative G.A. of BHEL motor is attached for your tender reference purpose only. However exact parameters shall only be confirmed during detail engineering as per the inputs furnished by successful bidder. 03.) Bidder to note refer the electrical scope matrix wherein it is clearly specified that Power cables, control cables and screened control cables b/w one end BHEL & other end vendor is in BHEL scope. While any special type of cable like compensating, coaxial,prefab, MICC, etc. cable is in bidder's scope.
3	SCOPE OF C&I FOR COMPRESSED AIR SYSTEM VOLUME-IIB, SECTION-C.4, Clause No. 2	For Compressor Connectivity to DCS shall be provided for information and overall control. Redundant MODBUS (on RS485) link on Fibre Optic Cable shall be provided between plant DCS & microprocessor system...	Information is Ok. But pls be precise : what is meant by "overall control" ? REDUNDANCY is not possible in each compressor, due to manufacturing constraint. In case of hardwired START, STOP commands, the cable required is under whose scope ? Also, pls let us know the distance between the last compressor and the DCS. assuming that Fibre Optic cable shall be in BHEL's scope (as mentioned), hardwired cable shall follow the same route. It is not clearly mentioned in Electrical scope matrix also.	Bidder to comply specification requierement. However, feasibility of any specific technical issue w.r.t. to redundancy of cable link b/w DCS & compressor panel will be discussed during detail engineering & will be subjected to approval of customer (NTPC). Further, the reference dwgs. are attached & bidder to calculate the distance from compressor house to DCS from these dwgs.

ANNEXURE-A to TCN- 01

Design, engineering, manufacturing, supply/ delivery, erection, commissioning, trail run, handing over to customer, etc of Compressed Air System for NTPC, 3x660 MW, North Karanpura Super Thermal Power Project, Jharkhand.

Tender No. PSER:SCT:NKP-M1632:14

Sl No.	Ref. clause of Tender Document	SUBJECT	BIDDER'S QUERY	BHEL'S CLARIFICATION
4	SCOPE OF C&I FOR COMPRESSED AIR SYSTEM VOLUME-IIB, SECTION-C.4, Clause No. 14	All transmitters supplied by bidder shall be rack mounted. The transmitter racks shall be in bidder's scope of supply. All transmitters shall be HART compatible.	It is not possible for the instruments fitted inside the individual equipments' skids due to manufacturing constraint. Also, since the compressors will be imported, hence the same shall be as per manufacturing standard.	If this is properity of vendor then it may be accepttable subject to the approval of customer (NTPC) during detail engineering.
5	SCOPE OF C&I FOR COMPRESSED AIR SYSTEM VOLUME-IIB, SECTION-C.4, Clause No. 17	All temperature sensors shall be Duplex type & temperature transmitter shall be provided for all temperature measurement applications.	Within the skid, shall be as per manufacturer's standard.	If this is properity of vendor then it may be accepttable subject to the approval of customer (NTPC) during detail engineering.
6	Volume - IIB, SECTION-C.5, PERFORMANCE GUARANTEES , Clause - 1.01.00	Guarantees under Category - I : Power consumption of each compressor shall be measured with its own drive.	Pls clarify whether the Power Consumption shall be measured at shop or at site. Also, whether any auxiliary power for the compressor (like auxilary Lube Oil pump, etc) shall be considered, or the Power to be measured at HT Motor input terminal of the compressor.	Bidder to note that power consumption shall be measured at shop. Also, bidder power consumption of compressor is comprises of compressor auxiliary equipments also.

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/ delivery, erection, commissioning, trial run, handing over to customer, etc of Compressed Air System for NTPC, 3x660 MW, North Karanpura Super Thermal Power Project, Jharkhand.	
Ref	01	Tender No. PSER:SCT:NKP-M1632:14
	02	BHEL's NIT, vide reference no PSER:SCT:NKP-M1632:14:4102 , Dated 04-12-2014.
	03	BHEL's TCN-01, vide reference no PSER:SCT:NKP-M1632:TCN-01, dated 20-12-2014.
	04	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, SALTLAKE CITY, KOLKATA - 700 091

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