



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 04

Ref: PSER: SCT: BNP-M1588: TCN-04

Date: 30-09-2014

| Sub | Tender Change Notice (TCN) - 04. | |
|-----|---|--|
| Job | Design, engineering, manufacturing, supply, erection, testing, commissioning, etc including O&M of Air Conditioning System for 2x660 MW units at IB TPS, Banharpalli, Orissa. | |
| Ref | 1.0 | Tender no PSER:SCT: BNP-M1588:14 |
| | 2.0 | BHEL's NIT, vide reference no PSER:SCT:BNP-M1588:3909 Date: 27-08-2014 |
| | 3.0 | BHEL's TCN-01, vide reference no PSER: SCT: BNP-M1588: TCN-01 Date: 15-09-2014 |
| | 4.0 | BHEL's TCN-02, vide reference no PSER: SCT: BNP-M1588: TCN-02 Date: 23-09-2014 |
| | 5.0 | BHEL's TCN-03, vide reference no PSER: SCT: BNP-M1588: TCN-03 Date: 29-09-2014 |
| | 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:

1.0 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

JOB:DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING, COMMISSIONING, ETC INCLUDING O&M OF AIR CONDITIONING SYSTEM FOR 2X660 MW UNITS AT IB TPS, BANHARPALLI, ORISSA.

TENDER NO PSER:SCT: BNP-M1588:14

| SL NO | Ref. Clause of Tender | Tender Provision | Bidder's Query | BHEL's Clarification |
|-------|---|---|--|--|
| 1.1 | Drawing No. PE-DG-391-100-M003 | -- | Please confirm the location of plant room. | Regarding location of plant room, it's clarified that the same will be at ground floor (Refer drg no PE-DG-391-100-M003, R-3, attached with the tender). |
| 1.2 | | | We would request you kindly provide us tentative piping layout for calculation the piping length of Condenser Water piping & Chilled Water Piping. | As regard to tentative piping layout of condenser water piping, chilled water piping, piping route between TG building & SWAS room, it's clarified that bidder shall plan layout as per scope of the tender. |
| 1.3 | | | Kindly provide us the piping route in between TG Building & SWAS Room | |
| 2.0 | SL NO 1.5 OF Volume-III | Manually operated, platform trolley of 1 T capacity with base area 2 x 1.5 m. | We would request you to kindly delete the same from our scope. | It's clarified that scope includes providing manually operated platform trolley of 1 T capacity with base area of 2x1.5 mtr and quote their rates/ price accordingly as per tender. |
| 3.0 | Drawing No. PE-DC-391-553-A001 & SPECIFICATION No: PE-TS-391-553-A001/Volume II B / Clause 2.1 B) | Drawing shows 3 nos. AHU are working but specification says AHU room shall contain 3 x 50% capacity AHU | Kindly confirm the configuration of the AHU | As regard details of AHU, it's clarified that bidder shall refer to specification no PE-TS-391-553-A001/ Volume II B/ Clause 2.1 B. |
| 4.0 | SL NO 1.2.2 of Volume-III | Fibreglass reinforced plastic (FRP) construction cooling tower, complete with fan, motor, FRP basin, nozzle, make up water & quick fill water connection, level witch, drain, piping, valve, strainer, ladder & all accessories as specified. | Kindly confirm the number of working & standby for the cooling tower for precision package unit | It's clarified that scope includes 2 no cooling towers (1 working, 1 standby) for 3 precision PU, capacity of 20 TR each (2 working, 1 standby). |
| 5.0 | SL NO 1.2.3 of Volume-III | Centrifugal pump set for condenser water recirculation complete with TEFC motor & all accessories as specified | Kindly confirm the number of working & standby for the Condenser Water Pump for precision package unit | It's clarified that scope covers 2 nos condenser water pumps (1 working, 1 standby) for 3 precision PU, capacity of 20 TR each (2 working, 1 standby). |
| 6.1 | Drawing No. PE-DC-391-553-A001 & 1.1.24 | Fan coil unit, consisting of chilled water cooling coil, blower, motor, drive set, filter (pre filter), 3 way motorised mixing valve with thermostatic controls and other accessories. | Kindly confirm us that BHEL will provide the power to the FCU & Thermostat. Vendor will provide the control cabling between Thermostat & Motorised Valve actuator. | As regard to electrical scope for power to FCU, thermostat, AHU fan motor, fresh air fan motor, smoke exhaust fan motor, heater, humidifier, instruments, cable between thermostat & motorised valve, it's clarified that bidder shall refer to electrical scope split, annexed with the tender. |

| SL NO | Ref. Clause of Tender | Tender Provision | Bidder's Query | BHEL's Clarification |
|-------|---|--|--|--|
| 6.2 | | Drawing shows 2 Way valve for FCU but BOQ says 3 way motorised mixing valve for the FCU. | Kindly confirm the same. | It's clarified that in case of any discrepancy in quantity, the quantity referred in Volume-III shall prevail over others, as per provision of tender. |
| 7.0 | | | Kindly confirm us that BHEL will provide the power to the AHU Fan Motor, Fresh Air Fan Motor, Smoke Exhaust Fan Motor, Heater, Humidifier & other instrument like Pressure Switch, Temperature Sensor, RH Sensor, Air Stat, Gysler Stat etc. | As regard to electrical scope for power to FCU, thermostat, AHU fan motor, fresh air fan motor, smoke exhaust fan motor, heater, humidifier, instruments, cable between thermostat & motorised valve, it's clarified that bidder shall refer to electrical scope split, annexed with the tender. |
| 8.1 | Drawing No. PE-DC-391-553-A001, 1.1.2 & 1.1.3 | | Kindly confirm the static pressure of the both the AHU. | As regard static pressure of AHU, bidder shall refer to & quote as per tender. |
| 8.2 | | | Kindly confirm the Fan Outlet Velocity of the AHU, which is not mentioned in the tender specification. | As regard fan outlet velocity of AHU, in terms of clause no 5.17.01 of C-2 of customer specification, it's clarified that velocity of air in any section of supply air duct shall not exceed 8 mtr/ sec and outlet velocity may be considered accordingly. |
| 8.3 | | | Kindly confirm the Heater & Humidifier capacity installed in the AHU room. | It's clarified that capacity of heater & humidifier; fresh air fan; smoke exhaust fan, installed in AHU room shall be worked by bidder based on heat load calculation. |
| 8.4 | | | Kindly confirm the capacity of Fresh Air Fan installed in the AHU room. | |
| 8.5 | | | Kindly confirm the capacity of Smoke Exhaust Fan installed in the AHU room. | |
| 9.0 | 2.0 of AC PLANT 2 OF VOLUME-III | | Kindly confirm the distance between the Indoor & Outdoor Unit for Air Cooled Package Unit & Air Cooled Split Unit. | It's clarified that distance between indoor & outdoor unit of air cooled package unit & air cooled split unit shall be worked out depending on site condition. |
| 10.0 | | | Kindly confirm the following:- | |
| 10.1 | | | a) Material for Chilled Water Piping Insulation and finishing of the same. | As regard material for chilled water piping insulation & finishing; duct thermal insulation & finishing, duct acoustic insulation & finishing, please refer to clause no 2.01.04 of C-2 of technical specification. |
| 10.2 | | b) Material for Duct Thermal Insulation and finishing of the same | | |
| 10.3 | | c) Material for Duct Acoustic Insulation and finishing of the same | | |

| SL NO | Ref. Clause of Tender | Tender Provision | Bidder's Query | BHEL's Clarification |
|-------|-----------------------|------------------|--|---------------------------------------|
| 11.0 | | | We would like to inform you that there are so many contradiction (different types of parameters for the same items) in between the specification mentioned in the various portion of tender document (Volume IIB). Kindly confirm which specifications prevail over other / follow by us at the time of tendering. | PI rerefr NIT for order of preference |
| 12.0 | | | We would request you to kindly accept the following:- "In case of variation in exchange rate/taxes/duties/work contract tax or if any new tax/duties levied the same shall be to BHEL account". | Shall be as per Tender Provision. |
| 13.0 | | | Kindly confirm the completion period of the project. | Shall be as per Tender Provision. |
| 14.0 | | | We would request you to kindly incorporate the escalation clause in case the contract goes beyond the schedule completion period which is not attributable by us. | Shall be as per Tender Provision. |
| 15.0 | | | We would request you kindly provide us the Construction power & water free of cost at site. | Shall be as per Tender Provision. |

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 2x660 MW units at IB TPS, Banharpalli, Orissa. | |
| Ref | 01 | Tender No. PSER:SCT:BNP-M1588:14 |
| | 02 | BHEL's NIT, vide reference no PSER:SCT:BNP-M1588:3909 , Dated 27-08-2014. |
| | 03 | BHEL's TCN-01,vide reference no PSER: SCT: BNP-M1588: TCN-01 Date: 15-09-2014 |
| | 04 | BHEL's TCN-02,vide reference no PSER: SCT: BNP-M1588: TCN-02 Date: 23-09-2014 |
| | 05 | BHEL's TCN-03,vide reference no PSER: SCT: BNP-M1588: TCN-03 Date: 29-09-2014 |
| | 06 | BHEL's TCN-04,vide reference no PSER: SCT: BNP-M1588: TCN-04 Date: 30-09-2014 |
| | 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)

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