



BHARAT HEAVY ELECTRICALS LIMITED
PROJECT ENGINEERING MANAGEMENT

Ref. – PE/PG/KAR/E-5145/15-03

Dtd. 04.02.2016

CORRIGENDA - 03

PROJECT: 3X660 MW NORTH KARANPURA STPP STAGE I.

PACKAGE: Station Lighting System

Subject: Corrigenda for Technical clarification, Commercial Clarification and NIT.

Corrigendum regarding Technical clarification, Commercial Clarification and NIT for above mentioned project/package is attached as per Annexure I

Bidders are requested to submit their offer considering points mentioned in Annexure-I against this tender.

The last offer submitted on or before the extended due date shall be opened and considered for evaluation.

Please ensure the submission of your offer within the due date 08.02.2016 (02.00 P.M. IST)

Kindly contact the undersigned in case of any queries.

Thanking You

With regards
For & on behalf of BHEL

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3 X 660 MW NORTH KARANPURA TPS- STATION LIGHTING SYSTEM
Annexure-I to Corrigenda for Technical clarification, Commercial clarification and NIT

1. Detailed description of items are described as below:

a) Section- C, Annexure-A, clause no 5.4 :

Section- C, Annexure-B, clause no 4.4

SWB4: 7 no 5A switches, 3 no fan regulators & 1 no 5A socket.

b) Section- C, Annexure-A, clause no 5.5 :

Section- C, Annexure-B, clause no 4.5

SWB5: 5 no 10A switches, 1 no 10A socket (shall have provision for mounting 16A contactor)

c) Section- C, Annexure-A, clause no 7.6 :

Section- C, Annexure-B, clause no 6.6

Receptacles type RC (Flameproof): Specification shall be same as that of RC receptacle in addition that it shall be flameproof.

d) Section- C, Annexure-A, clause no 3.22 :

Section- C, Annexure-B, clause no 3.22

Luminaire Type FC30: Fixture for 4 x 14 W lamps.

e) Section- C, Annexure-A, clause no 3.23 :

Section- C, Annexure-B, clause no 3.23

Luminaire Type CF01: Fixture for 2 x 36W CFL.

f) Section- C, Annexure-A, clause no 3.24 :

Section- C, Annexure-B, clause no 3.24

Luminaire Type CF02: Fixture for 2 x 18W CFL.

2. Plot Plan Ref. No. PE-DG-405-100-M001-R03A for the project enclosed for reference.

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3. Section – C, Annexure- A, Cl -21 & Annexure – B, Cl-18

Occupancy sensor: The sensors shall be recess mounted, programmable type suitable for lighting load of 6A with variable off delay settings. The detection area shall be minimum 5 meters for standard room height of 3m. All the calibrated settings shall be stored in non- volatile memory of PIR sensor which shall be unaffected by power supply fluctuations. Necessary 16A contactor shall be supplied along with each sensor and shall be located inside the switch box.

Lighting dimmer system: Dimmer units shall be used for controlling CFL & 12V, 50W halogen dichroic lamps. This shall be suitable for controlling 3kW load. The system shall be of proven design and reputed make with user friendly featured for lux level control and facility for remote control operations.

4. Clause No. 19 of NIT shall be read as follows:

- a) Overall quantity variation shall remain +/- 30% of total order value in line with Cl. No. 6.0 of GCC Rev.06.
- b) Quantities released (In Lots) up to 100% of contract value shall be intimated within 02 years from date of original PO.
- c) Quantity variation of Supply and E&C up to 30% of order value may exceed 02 years.
- d) Prices shall remain firm for Supply as well as E & C.

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Sl. No.	Reference clause of Tender document	Existing provision	Bidder's query	BHEL's clarification
5	NIT: Clause No.12 , Delivery Schedule	For LOT-1 Items: Four Months from approval of 'Basic Design Documents' in CAT-I issued by BHEL/Customer.	Please provide % age of quantity to be supplied in LOT-01.	LOT-I quantity shall be approx. 60-70% of total contract value. Exact quantity shall be informed after placement of PO during kick off meeting to the successful bidder.
6	NIT: Clause No.12 , Delivery Schedule	E&C-Completion shall be within 04 Months from the date of clearance/ availability of work front at site.	- Please provide over all duration to be considered for Supply and E & C. - Whether Over Run Charges (ORC) will be applicable. If yes please provide % age applicable.	- It will be based on Engineering and site progress - Not Applicable
7	NIT: Clause No.19	100% quantity of supply of the purchase order quantities shall be required within 2 years from the date of P.O. Quantity variation of supply and E&C up to 30% may exceed 2 years from the date of P.O. Prices will be firm for supply as well as E&C of total quantity.	- Kindly confirm that the contract is on unit rate basis. - We understand that vendor has to supply 100% quantity as per Billing schedule within two years from the date of PO. Please confirm - The Qty may exceed to a maximum of 30% of the PO items and the same also to be supplied within two years from the date of issue of PO as per site requirements. Please confirm - Please confirm the exceeded quantities (i.e. up to 30%) to be supplied by contractor is billable on unit rate basis. - Also confirm that contract price will accordingly increase.	- Yes - Please Refer Sl. No. 4 above - Please Refer Sl. No. 4 above - Quantity Variation will be on unit rate. - Unit prices will remain firm, however contract price may vary based on quantity variation.

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Sl. No.	Reference clause of Tender document	Existing provision	Bidder's query	BHEL's clarification
8	Special Conditions of Contract (SCC) Rev-00: Clause No.16. Taxes & Duties	C) All bidders to note being a Mega ICB Project, Excise Duty shall not be included in their prices to BHEL as per nature of the project. PAC shall be issued to main vendor for their self-manufactured items only , to avail benefit of NIL ED.	As per Pre Qualifying Requirement "In case vendor is not a BHEL-PEM approved manufacturer of applicable type of lighting fixtures ,vendor to furnish MOU/Agreement with any of the BHEL-PEM approved manufactures of applicable type of lighting fixtures." 1) As we are not a manufacturer, we have MOU with BHEL PEM approved manufacturer & we shall be the main bidder. In that case, whether PAC will be issued & ED Exemption benefit is available to our partner who is manufacturer of Lighting Fixtures. 2) Also, please note that other items like Lighting Transformers, LDB's,LP's,SwitchBoxes,JB's, Recepticles, Poles,Masts, Wires,Conduits, Flats, Structural Steel Etc. are bought outs for us. We are not a manufacturer. Please confirm that whether ED Exemption is available for other suppliers against supply of Lighting Transformers, LDB's,LP's,SwitchBoxes,JB's, Recepticles, Poles,Masts, Wires,Conduits, Flats, Structural Steel Etc.	- PAC shall be issued to main bidder on self- manufactured items only. - PAC shall be issued to main bidder on self- manufactured items only.
9	General	Construction Water & Electricity	<u>Please confirm the Construction water & Electricity shall be provided to the contractor on free of cost.</u>	Construction water & Electricity shall be provided by BHEL free of cost.

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Sl. No.	Reference clause of Tender document	Existing provision	Bidder's query	BHEL's clarification
10	General		As the project includes supply as well as erection, kindly confirm that there will be two separate contract One for Supply and other for Erection. Also confirm that work contact tax (WCT) will not be applicable.	Yes, there will be Two separate contract for Supply and E & C Work contact tax (WCT) will not be applicable.
11	General	Taxes & Duties	Please confirm that If GST (Goods and Services Tax Bill) is imposed at a later date by government, the same shall be reimbursed by BHEL to the contractor at actuals.	Please refer Cl. No 5.4 of General Terms & Conditions of GCC Rev.06
12	GCC Revision No.06 Clause No.09	Terms of Payment	In the tender, It is mentioned that refer GCC, Rev-06 for other conditions. As Payment terms not given in NIT&SCC, Please confirm which terms of payment should we consider for this package (9.1, 9.2, 9.3, 9.4 or 9.5 of GCC)	For Supply , Cl. No 9.3 of General Terms & Conditions of GCC Rev.06 is applicable. For E & C , Cl. No 9.4 of General Terms & Conditions of GCC Rev.06 is applicable.
13	GCC Revision No.06 Clause No.09.3 : Supply Payment	Supply Part: 9.3.3 Ten percent (10%) of the total basic price shall be released after i) submission of all final documents as per Technical Specifications and ii) successful completion of Performance Guarantee (PG)/ Demonstration Test and handing over of the system/ Package, if applicable, as per Order/ Contract.	Please note that there is NO Performance Guarantee (PG) Tests to be carried out for Lighting System. Hence please confirm the above clause in GCC Rev 06 shall not be applicable and based on Demonstration Test (by switching on lighting in area wise) the last 10% will be released.	PG test is Not Applicable for this package. Last 10% Payment as per Cl. No 9.3.3 of General Terms & Conditions of GCC Rev.06 shall be payable after i) submission of all final documents ii) handing over of the system/ Package, as per Order/ Contract. For list of final Documentation please refer below Sl. No 15 B

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Sl. No.	Reference clause of Tender document	Existing provision	Bidder's query	BHEL's clarification
14	Clause No.09.4 : E&C Payment	E&C Part: 9.4.3 Ten percent (10%) of the total value shall be released by Site authorities/ Region on successful completion of PG/ Demonstration test(s) and handing over system/package to the Owner, as applicable.	Please confirm that last 10% against supply & Erection shall be released on pro rata basis against completion of demonstration tests in various areas like 1) TG Hall 2) Control Rooms and CER room 3) UPS Room 4) Battery Room 5) AHU Rooms 6) PRDS & Derator floors 7) Each Boiler Platforms 8) Off site areas such as DM & PT Plant 9) DM & PT MCC 10) Water System Control Bldg 11) Fire Water Pump House and Control Bldg 12) FOPH 13) Chlorination Bldg 14) Canteen Bldg 15) Administration Bldg 16) Auditorium Bldg 17) Each Rooms of Service Bldg 18) Ash water Pump house etc. 19) Permanent Store Bldg 20) CHP Control Room 21) CHP Conveyor Gallery (Each gallery as one area) 22) Cooling Tower 23) Ash Slurry 24) Each area of Ash Handling Plant 25) Workshop Bldg.	PG test is Not Applicable for this package. Last 10% Payment as per Cl. No 9.4.3 of General Terms & Conditions of GCC Rev.06 shall be payable after i) successful completion of Demonstration test(s) ii) handing over of the system/ Package, as per Order/ Contract. For list of final Documentation & applicability of Demonstration Test please refer Sl. No.15 C & D respectively.

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15. Please refer following points of Technical Specification

A) In clause 16.4.2 of Sec-D of Technical Specification, following documents added.

- Technical data sheet
- GA for lighting DB & lighting transformer.
- GA drawings for LED fixture & lamps
- Schemes and GA for occupancy sensor system, lighting dimmer system and other applicable control system for green building lighting.

B) For **Final Documentation** "clause 16.7" added in Sec-D of Technical Specification as below:

Final documentation shall include all approved drawings of cl no.16.4.1, 16.4.2 (including above additional documents at Sl. No. A above) & cl. no 16.4.3.

C) Clause 16.5.4 added in Sec-D of Technical Specification as below:

As built drawings of lighting layout, conduit layout drawings, cable layout, power distribution schemes, SLDs etc. for street lighting and plant building / areas (including green buildings).

D) Cl. No. 16.8 added in Sec-D of Technical Specification as below:

Demonstration of lighting system to customer i.e. NTPC shall include the

- Physical verification of lighting fixtures /lighting poles/mast/tower as per approved lighting lay out drawings.
- Functional check of lighting switching circuit i.e. switching ON & OFF in LDB, LPs and switch boxes etc.
- Operation of lighting system shall be verified in the timer circuit for outdoor lighting.
- Operation of Sensor based control circuit check for green building as per applicable GRIHA rating
- Area wise measurement of lux level requirement as per technical specification / approved drawings/document.

