



**BHARAT HEAVY ELECTRICALS LIMITED**  
**PROJECT ENGINEERING MANAGEMENT, NOIDA**

Date-25-Aug-20

**CORRIGENDUM- 02**

|                   |          |                                      |
|-------------------|----------|--------------------------------------|
| <b>PROJECT</b>    | <b>:</b> | <b>2X660 MW THDC Khurja STPP</b>     |
| <b>PACKAGE</b>    | <b>:</b> | <b>D/G EOT CRANES ABOVE 100T</b>     |
| <b>ENQUIRY NO</b> | <b>:</b> | <b>E-6486/2020 Dated. 06.08.2020</b> |
| <b>SUBJECT</b>    | <b>:</b> | <b>PRE- BID CLARIFICATION</b>        |

| Type of Corrigendum     |                                     |                          |                          |
|-------------------------|-------------------------------------|--------------------------|--------------------------|
| Technical Corrigendum - | <input checked="" type="checkbox"/> | Commercial Corrigendum - | <input type="checkbox"/> |

In reference to the above mentioned tender enquiry for **D/G EOT CRANES ABOVE 100T** package  
Please note the following.

1. Pre-bid clarification attached with this corrigendum shall be treated as part of NIT.

All the other terms and conditions of the tender enquiry remain unchanged. All the bidders are requested to quote accordingly.

Yours faithfully,

For and on behalf of BHEL

R P Yadav  
Dy. Manager



**2X660 MW THDC Khurja STPP**  
**PACKAGE: DOUBLE GIRDER EOT CRANES ABOVE 100T**

**SPECIFICATION No: PE-TS-475-501-A501**

**VOLUME: III**

**SECTION-III**

**SUB-SECTION-IIIC**

REV 00

DATE 24.08.2020

**PRE-BID CLARIFICATIONS**

| S. No. | Section/Clause/Page No.                                                                                   | Statement of the referred clause                                                                                                                                                                                               | Clarification Required                                                                                                                                        | BHEL's clarification                                                                                             |
|--------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 1      | Section 1A, Clause No. 7.04.00 (v), Page 34 of 323                                                        | VVF system shall be capable for withstanding temp. upto 50 deg.C without derating                                                                                                                                              | VFD will be selected at 50 Deg.C considering required deration factor mentioned in manufacturer's catalogue.                                                  | Bidder to follow the specification.                                                                              |
| 2      | Section 1A, Clause No. 7.05.00 (vi), Page 36 of 323                                                       | Frequency allotment for radio remote unit from Govt. of India, dept. of Telecommunication or any other agency shall be the responsibility of supplier                                                                          | We shall provide low power device in 433 to 434 MHz frequency range, which is exempted from License.                                                          | Specification requirement is clear.                                                                              |
| 3      | Section IA, Clause No. 7.04.00 (vi), Page 34 of 323<br>Section IC,Datasheet, SI No.1.9.0, Page 172 of 323 | Provision for controlling the motion from operator cabin (in case of Turbine hall EOT crane) as well as remote control shall be available (Pg-36)<br>Operation from Cabin + Pendent Push Button+ Radio remote control (Pg-174) | Not Clear on modes of control: Whether Operator cabin + RRC OR Operator cabin + RRC + Pendant?                                                                | Operation from Cabin + Pendent Push Button+ Radio remote control should be considered.                           |
| 4      | Section 1A, Clause No. 7.05.00.(ix), Page 36 of 323                                                       | On local unit (receiver side), the system should be provided with one selector switch so that EOT crane can be operated either from Operator cabin or radio remote unit.                                                       | Whether Selector Switch on Local unit (on crane) shall have 2-step OR 3-steps?                                                                                | Suitable selector switch shall be provided for operation from Cabin + Pendent Push Button+ Radio remote control. |
| 5      | Annexure-I, Page-43 of 323                                                                                | Makes of Sub-vendor items                                                                                                                                                                                                      | Proposal for inclusion of following Makes :-<br>1. Anti-collision device:- IFM/Sick (Presently only one in Make list)<br>2. RRC:- Lotus Wireless(NBB control) | Please refer to "Note-1&2" in Annexure-I (Makes of sub-vendor items).                                            |



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|    |                                                                                                              |                                                                                                                                                                                  |                                                                                                                                                                  |                                                                                                                                                                                                                                                                            |
|----|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6  | Section IA, Clause No. 7.001.00 (iii), Page 29 of 323<br>Section IC, Datasheet, SI No.1.3.0, Page 172 of 323 | Applicable code mentioned as IS 3177 (Latest edition)<br>Mechanical and Electrical as per IS: 3177-2006                                                                          | IS 3177:2020 is the latest edition.<br>Please clarify which version of IS 3177 to be followed.                                                                   | IS 3177 (Latest edition) is to be followed.                                                                                                                                                                                                                                |
| 7  | Section IC, Datasheet, SI No.3.21.0.d Page 182 of 323                                                        | Protective Panel one number located in Cabin                                                                                                                                     | Protective Panel shall be located on the crane bridge platform for safety point of view. Please confirm.                                                         | Noted and confirmed.                                                                                                                                                                                                                                                       |
| 8  | Sub section B-3, Clause No. 2.14.04, Page 136 of 323                                                         | All cables shall be armoured type                                                                                                                                                | Festoon cables shall be un-armoured due to festoon application.<br>Can we use unarmoured cables for fixed power & control cables (for better bending & routing)? | Constructional features for different types of cables shall be as per clause no. 3.00.00 of Page 136 of 323.                                                                                                                                                               |
| 9  | Sub section IC, Data Sheet (S.No. 3.35.0), Page 184 of 323                                                   | Loadcell to be provided for Hoist mode                                                                                                                                           | Please clarify whether load cell is required for MH, AH or both?                                                                                                 | Mechanical overload protection (Load Cell) to be provided for Hoist mode (both MH and AH).                                                                                                                                                                                 |
| 10 | Section IIA, SI no. 3.4.1.2, Page 198 of 323<br>Section IC, Datasheet, SI No.3.20.0.b Page 182 of 323        | Voltage drop across the down shop leads shall be less than 3% or specified in data sheet "A".<br><br>Voltage drop at motor terminal shall be limited to 2% at extreme positions. | Please clarify which value of voltage drop to consider 3% or 2%?                                                                                                 | Specification requirement is clear. Voltage drop at motor terminal shall be limited to 2% at extreme positions as specified in data sheet "A".                                                                                                                             |
| 11 | Section IC, Datasheet, SI No.3.10.2.h Page 178 of 323                                                        | 2 nos. LT parking brake (storm brake) shall be provided                                                                                                                          | Is storm brake required for indoor cranes.                                                                                                                       | Bidder to follow the specification. The crane is required for erection purpose also during which the building may not be completed from sides and may be exposed to winds/storms.<br>Storm brakes shall be designed for wind criteria as indicated on page 40 & 41 of 323. |