

परियोजना
इंजीनियरिंग
प्रबंधन
Project Engineering
Management

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
(भारत सरकार का उपक्रम)
Bharat Heavy Electricals Limited
(A Govt. of India Undertaking)



Ref: PE/PG/NT1/E-4583/2014/Corrigendum/01

Date: 29/10/2014

| |
|--------------------------|
| DUE DATE |
| 11-Nov-2014 |
| BY 02.00 PM (IST) |

Subject: -Technical clarification for COMPRESSED AIR SYSTEM of 2X500 MW NEW NEYVELI TPP (SG package)

Our Ref: - TENDER ENQUIRY NO:- PE/PG/NT1/E-4583/2014 Dt: 10-10-2014 for **COMPRESSED AIR SYSTEM of 2X500 MW NEW NEYVELI TPP (SG package)**

With reference to the above enquiry, Corrigendum 01 is issued due to some Technical clarification as per Annexures enclosed for subject package.

Thanking You

With regards
For & on behalf of BHEL

Rajeev
29.10.14
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Enclosure :-

- Annexure-I
- Annexure-II

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| Sr No | Volume / Section | Page No. | Clause No. | Technical Specification | Deviation | Cost of Withdrawal | BHEL REPLY |
|-------|---|----------|------------|---|--|---|--|
| 1 | Volume - IIB, Section - C2, TECHNICAL REQUIREMENTS (MECHANICAL) | 23 | 4.01.06 | Suitable interlock shall also be provided for opening the valve before starting of any of the compressor | Solenoid Valve shall be provided at Cooling Water supply line but interlocking to Compressor Panel is not possible as there is no provision of extra i/o in Compressor Panel. It should be done in Purchaser's DCS only and logic required shall be implemented in DCS during detail engineering | Withdrawal is not possible as Compressor Panel has limitations of additional interlocks | Bidder to comply specification requirement. |
| 2 | | 24 | 4.02.04 | The control system shall provide warning to the operator that a hot-start condition exists for the motor driver and adequate cool-down period has not occurred after the motor was shutdown | As HT breaker panel is not in Bidder's scope, this control system / philosophy shall be provided by Purchaser in their HT breaker panel interlocking it with Purchaser's DCS. However, we shall provide all necessary inputs w.r.t. functional requirement and shall provide all necessary modules within our equipments | Withdrawal is not possible as HT Breaker Panel is not in our scope | Bidder reply is noted. Since the HT panels are not in bidders scope. However bidder to provide all necessary inputs w.r.t. functional requirement and other necessary modules. |

| PRE-BID CLARIFICATION SCHEDULE | | | | |
|--------------------------------|---|--|--|--|
| Sr No | Section / Clause / Page No. | Statement of the referred clause | Clarification required | BHEL REPLY |
| 1 | Section - C1 / 3.02.00 / 17 | Screw Air Compressors | Compressor is a standardized Package as per Manufacturer standard practice only | Bidder to comply specification requirement. |
| 2 | Section - C1 / 3.04.08 / 21 | The material of construction of shell, dished ends, flanges. etc of the air receivers shall be of carbon steel as per SA 516 Gr.B or equivalent | It should be SA 516 Gr. 70 | The material of air receiver shall be read as "carbon steel as per SA 516 Gr. 70". |
| 3 | Section - C2 / 4.02.00 / 21 | Screw Compressors - Operational & Safety interlocks | Compressor is a standardized Package as per Manufacturer standard practise meeting the safe operational requirement of the equipment / system | Bidder to comply specification requirement. |
| 4 | PE-DG-400-555-A001 / 28 | P&ID for IA and SA system with conventional twin tower type HOC Dryer | P&ID is not clearly visible and some of the lines are deleted. Please provide clear one | P&ID attached again as required. |
| 5 | Section - C2 / 8.1 b), c), e) / 29 | Lahmeyer scope includes air distribution piping, compressed air station building, handling and hoisting facilities etc... | We hope that scope shall be as mentioned in Section C1, clause no. 1.0 only | Bidder to note that complete scope as per cl. (b) & piping as indicated in the P&ID's except compressed air distribution pipes other than indicated in the P&ID's is in bidder scope of supply. Further, bidder to note that Compressed air station bldg. & Crane for handling are not in bidders scope of supply. Plz refer exclusion clause at page no 11 of specification. |
| 6 | Section - C2 / 8.3, 4 / 31 | One (1) no. PLC-based control panel | We hope that Compressor panel shall be microprocessor base as per Manufacturer standard practice as mentioned in Section C2, clause no. 4.01.02 only | The specification is self explanatory & bidder to comply the same. |
| 7 | Section - C2 / 8.3, 6 c) / 31 | Rotor drum loaded with desiccant and drive motor | Not applicable as we shall offer twin tower type HOC Dryer | As per specification ,bidder have the choice between HOC twin tower type air dryer & HOC rotary drum air drier. Bidder to comply specification requirement. |
| 8 | Section - C2 / 8.4, 6 / 32 | Suitable interconnections will be kept between SA and IA headers before Air Dryers for each unit with normally closed motorized isolation valves | Not applicable as it is for P&ID Alternative I and we shall offer P&ID Alternative II | Bidder to comply specification requirement & also Alternative-II says the same. |
| 9 | Section - C2 / 8.5, 1 to 8, 10, 11, 12 / 34 to 38 | Design and Construction of Compressor Skid Package and Package items | Compressor is a standardized Package as per Manufacturer standard practise meeting the safe operational requirement of the equipment / system | Bidder to comply specification requirement. |
| 10 | Section - C2 / 8.5, 18 / 40 | E.O.T. Crane | We hope that scope shall be as mentioned in Section C1, clause no. 1.0 only and Crane is in Exclusions | Bidder to note that EOT crane is not in bidder's scope of supply. Plz refer exclusion clause at page no 11 of specificatin. |
| 11 | Section - C2 / 8.5, 19 / 40 | Painting | We hope that it shall be as mentioned in Section C2, clause no. 5.00.00 only | The painting shall be as per cl. No. 19, page 40 of technical specification. |

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ANNEXURE-II

| | | | | |
|----|---|--|---|---|
| 12 | Section - C2 / 8.6 / 41 | Inspection & Testing | We hope it shall be as per BHEL standard QAP format | Bidder to comply specification requirement as a minimum. |
| 13 | Section - C3 / Electrical Scope Sheet / 47-48 | Scope sheet for Electrical Scope between BHEL & Vendor | We hope that HT panel shall be in Purchaser's scope only as HT panel scope is not mentioned in Electrical Scope sheet | Bidder to note that HT panels are not in bidder's scope of supply. Plz refer exclusion clause at page no 11 of specificatin. |
| 14 | Section - C4 / 18.3, 1 / 116 | Measurements at Local Panel for Compressors | Compressor is a standardized Package as per Manufacturer standard practise meeting the safe operational requirement of the equipment / system. To add any extra measurements to the Compressor Panel other than standard is not possible | Bidder to comply specification requirement. However, the issue shall be discussed with customer during detail engineering & shall be subjected to customer approval / acceptance. |
| 15 | Section - C4 / 18.4, 1 / 117 | Alarms & Interlocks for Compressors | Compressor is a standardized Package as per Manufacturer standard practise meeting the safe operational requirement of the equipment / system. To add any extra Alarms and Interlocks to the Compressor Panel other than standard is not possible | Bidder to comply specification requirement. However, the issue shall be discussed with customer during detail engineering & shall be subjected to customer approval / acceptance. |

By ..