



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

TITLE CORRIGENDUM FOR TITANIUM CLAD PLATES

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Email : sudheer@bhel.in

Reference Number Enquiry
1001900039

Enquiry Date:
07/09/2019

Due date for submission of quotation
10/10/2019

You are requested to quote the Enquiry number date and due date in all your correspondences.
This is only a request for quotation and not an order

Details of Corrigendum

- 1.PQR Revised, hence suppliers are requested to submit the documents as per PQR Rev.02 dt 28.09.2019**
 - 2.Technical requirements document Rev 01 attached**
 - 3.Due date for submission of tender has been extended from 28.09.2019 to 10.10.2019.**
- Suppliers are requested to take the cognizance of the same and submit your quote accordingly.**

Except above all other terms and conditions remains unaltered

BHEL commercial terms & conditions and all annexures can be downloaded from BHEL web site <http://www.bhel.com> or Government tender website <http://eprocure.gov.in> (public sector units) Bharat Heavy Electricals Limited) or from <https://bhel.abcpocure.com> against RFQ/Enquiry reference "1001900039 "

Yours faithfully,

For Bharat Heavy Electricals Limited

SUDHEER APPIRE DDYGARI
Senior Engineer / Purchase
Materials Management / Steel
BHEL, TRICHY - 620 014.

Sr. Engr/ MM / Steel

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BHEL-TRICHY

MM/RM/PURCHASE/STEEL

REF: MM:PUR: CS PLATES CLADDED WITH TITANIUM SHEETS Rev 02

DT : 28.09.19

Pre-Qualification requirements (PQR) for the procurement of CS Plates clad with Titanium Sheets as follows through Open Tender

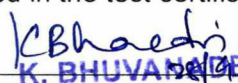
Cladded Plates (8 mm CS Plates as per specification IS 2062 E250 GrA / SA516 GR70 clad with 2 mm Titanium sheet to Spec ASME SB265 GR2) confirming to ASTM B898

A: Organizational Capability:

1. Manufacturers having Mills with Plate rolling & Explosion Bonding or hot rolled or combination of Explosion Bonding or hot rolled facilities are only eligible to participate. Offer from traders, fabricators, re-rollers and stockists are not acceptable and will not be considered for evaluation. Product catalogue shall be submitted.
2. Suppliers without basic manufacturing facilities in-house, shall not be considered for evaluation. In house facilities for Heat treatment and NDE are mandatory requirements for consideration of the offer. Details of the mill with list of manufacturing facilities and List of testing equipment & Instruments to be submitted.
3. If the supplier is not having facility for manufacture of CS Plates & Titanium sheets, then source of raw material for the CS Plates and Titanium Sheets shall be indicated. If the supplier is dependent on more than one source for CS Plates and Titanium Sheets, all the sources should be indicated; and the supplies should be restricted to the indicated list of raw material suppliers. For the submitted raw material sources, the supplier shall confirm that the raw material test certificate/s will be furnished along with product test certificate/s.
4. Chemical and Mechanical testing shall be done in house or at Labs certified as per ISO 17025 or Government approved Labs.
5. Suppliers shall submit a valid ISO 9001 certificate or Quality management system certificate or Written down procedure.
6. Suppliers shall submit a valid copy for use of explosive for explosion bonding process.
7. BHEL reserve the right to inspect the item ordered at any stage at vendor's works and if found not meeting the stipulated conditions, material is liable for rejection.
8. BHEL reserves the right to inspect the first lot of materials at vendor's works for giving clearance before bulk production.

B: Technical Competence:

1. Confirmation to the tendered specifications and the following requirements are mandatory for consideration of offer. For the Carbon steel plate, Vacuum Treatment, Charpy V-Notch Impact Test and Ultrasonic Examination (as per ASTM A578-Level C) shall be carried out. For the clad plate, Bond shear strength testing, Ductility Bend testing, Heat treatment (Stress relieving as per supplier's procedure), Base metal Tensile strength testing as per ASTM B898 & Ultrasonic testing (as per ASTM A578-Level C) shall be done. The above test results with reference and acceptance standards shall be indicated in the test certificates.


K. BHUVANESHWARI
Deputy Manager
MM / RM / Material Planning
BHEL, TRICHY - 620 014.


ABDUR RAHMAN SULTAN PAGE 1 OF 2
Senior Engineer
Quality Assurance
B.H.E.L., Trichy-620 014.

C: Past Experience / Performance:

1. Suppliers shall indicate their annual installed capacity for each of the tendered specifications & it shall be more than the tendered quantity.
2. Suppliers shall have supplied cladded Plates of carbon steel plate and Titanium sheet. Details of supplies made in recent past detailing the quantity, Specification, size & customer details, year wise along with the unpriced PO copies, proof of supply (such as invoice / bill of lading copies and test certificates) covering minimum and maximum sizes of the tendered specifications shall be submitted.

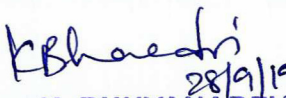
If credential is not available for any tendered specific size, then specific declaration shall be submitted by mill stating the capacity to produce that quoted size/s.

D: Financial Soundness:

1. Indigenous suppliers shall submit Audited copies of annual reports/complete set of annual accounts for the last three years (or from date of incorporation whichever is less) and GST certificate.
2. Import suppliers shall submit latest report from reputed third party business rating agency like D&B / Credit reform.

Necessary supporting documents shall be submitted for meeting each of the above Pre-Qualification Criteria for evaluation of the offers.

BHEL reserves the right to consider/Not-consider the offers based on the evaluation of documents submitted for the above Pre-Qualification Criteria. BHEL also reserves the right to have on-site assessment of the facilities at supplier's works during the bid evaluation.


28/9/19
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28/09/2019
ABDUR RAHMAN SULTAN
Senior Engineer
Quality Assurance
B.H.E.L., Trichy-620 014.

TECHNICAL REQUIREMENTS

Notes:

1. Supply of clad plate by Hot Rolling, Explosion bonding or combination of both are acceptable.
2. Cladded plates shall confirm to requirements of ASTM B898 including tensile testing & ductility bend test.
3. Bond Shear strength test shall be carried as per ASTM B898 for cladded plates.
4. Cladded plates shall be UT tested as per A578 Level C.
5. Cladded plates shall be Heat Treated as per supplier's procedure.
6. CS Plate to spec SA516 Gr70, shall meet Vacuum Treatment, Charpy V-Notch Impact Test and Ultrasonic Examination (as per ASTM A578-Level C).
7. Titanium sheets shall be heat treated as per relevant specification.
8. Shape of cladded plate and Dimensional tolerance shall be followed as per design Drawing No. 4-48-999-66726(attached).
9. Supply of Cladded plates sizes (sl. No. 1 to 7) shall be as per PR only and deviation is not acceptable.
10. Quantity tolerance is NIL and No of pieces to be ensured.
11. Mill T.C. and other related documents are required.
12. In the Cladded Plate, there shall not be more than one number joints in cladding Titanium sheet before cladding and no joint in Carbon steel base plate. 100 % Radiography testing of all such joints shall be done by vendor as per ASME, Sec. VIII, Div. 1, UW-51. Weld seam location and orientation shall be provided by manufacturer before cladding.


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Dy. Manager
MM/ STEEL.

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