

BHARAT HEAVY ELECTRICALS LIMITED, TRICHY-14

MATERIALS MANAGEMENT.

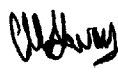
PQR: Nickel alloy C&F Rev:00

Date: 11/08/17

Pre-Qualification requirements (PQR) for the procurement of Nickel Alloy Forged fittings & Forgings to specification ASME SB564 UNSN06617 with reference to TDC 0: 443/ Rev 01 through Open Tender for AUSC application.

A) Organizational Capability:

1. Manufacturers of nickel based alloy forged fittings / forgings having manufacturing facilities for high pressure & temperature service conforming to National/International standards are only eligible to participate. Offer from traders, fabricators and stockists are not acceptable and will not be considered for evaluation. Vendor to indicate the nature of the firm.
2. Suppliers without basic manufacturing facilities in-house, shall not be considered for evaluation. In house facilities for Forging, Heat treatment & Non-Destructive Testing are mandatory requirements for consideration of the offer.
3. If the supplier is not having nickel alloy melting facility then source of raw material for the manufacturing shall be from IBR approved well known maker(Form-IV) or certified by IBR approved inspecting authority (Form-IV-A) to be attached. If the supplier is dependent on more than one source for nickel alloy melting, 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 along with product test certificate/s approved by IBR shall be furnished.
4. Chemical, 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 filled in supplier facility report (Format enclosed).
7. BHEL reserves the right to inspect the item ordered at any stage at vendor's works and if found not meeting the stipulated conditions, material will be liable for rejection.
8. BHEL reserves the right to inspect the first sample at vendor's works for giving clearance before bulk production.
9. BHEL reserves the right to visit supplier's works to audit & inspect to ensure the capability for technical evaluation.


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B) Technical Competence:

1. Point by point confirmation to the TDC requirements is mandatory for consideration of offer. Specific confirmation is required for Testing, Certification & Chemical composition as per TDC/Specification.
2. Suppliers shall submit the list of facilities available at the mill (Raw material to finished product), manufacturing process flow chart & manufacturing quality plan to meet the TDC and drawing requirements along with technical bid.
3. Suppliers shall submit the experienced manpower details specific to Manufacturing, Quality and NDE requirements.
4. Manufacturer's test certificates, UT, LPI reports as per TDC requirement shall be submitted for BHEL approval before dispatch.

C) Past Experience/ Performance:

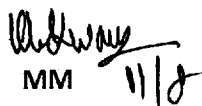
1. Suppliers shall indicate their annual installed capacity for the tendered specification & it shall be more than the tendered quantity in this specification.
2. Suppliers shall have supplied forged fittings / forgings in the tendered specification or a similar nickel alloy specification (subject to BHEL discretion) in the past three years. Details of supplies made in recent past three years 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 & sample test certificates covering minimum and maximum sizes for the tendered specifications shall be submitted.

D) Financial Soundness (Not applicable for the vendors already permanently registered with BHEL / Trichy):

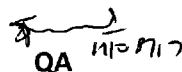
1. Indigenous suppliers shall submit Audited copies of annual reports/complete set of annual accounts for the last four years (or from date of incorporation whichever is less).
2. Import suppliers shall submit latest D&B report.

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

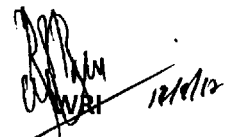
BHEL reserves the right to consider/Not-consider the offers based on the evaluation of documents submitted for the above Pre-Qualification Criteria. BHEL also reserves the right to have on-site assessment of the facilities at supplier's works during the bid evaluation.


MM 11/8

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QA 11/07/17

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12/6/17

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FORGE SHOP

- 1.00.00 Name of Company, Address
- 2.00.00 Type & No. of Forging Press : Forging hammer
Capacity - (Tonnes)
- 3.00.00 Max. size of Material that can be handled
dimensions, weight and type of materials.
- 4.00.00 Production with relevant standards (for last three years)

Carbon Steel

Stainless Steel

Alloy steel

Inconel -
- 5.00.00 Heating Facilities -
- 5.10.00 Furnace - No. and capacity
- 5.10.10 Type - Oil Fired, Gas Fired, Electric
heating
- 5.10.20 Dimensions
- 5.10.30 Mode of Temperature control & extent
of automation.
- 5.10.40 Temperature recording facilities
- 5.20.00 Distance of heating furnace from Forging Press
- 5.30.00 Handling Facilities - Crane/Truck/Manual/ any other
indicate list of such facility.
- 6.00.00 Availability of in-house Heat Yes/No
Treatment facility
- 6.10.00 If yes: Type of heat treatment possible



FORGE SHOP

- 6.20.00 If no, source of Heat Treatment with relevant details.
- 6.20.10 Annealing -
- 6.20.20 Normalising -
- 6.20.30 Stress Relieving -
- 6.20.40 Quenching: - Water/Oil
Any other Heat treatment? -
- 6.20.50 Type & No. of Furnace -
- 6.20.60 Dimensions, Type of Temp. Control,
Temp - Time Recording facilities.
- 7.00.00 Source of Raw Materials -

Indigenous/imported (Indicate source and quantity of
material procured during last three years)
- 8.00.00 Machining Facilities -

List of machines installed
- 9.00.00 Cutting facilities - Type & No. of Machine
- 10.00.00 Availability of testing facilities Yes/No
- 10.10.00 If no - Indicate source of testing with relevant details
- 10.20.00 If yes :-
- 10.20.10 Chemical Analysis: Method
- 10.20.20 Mech. Testing
- 10.20.21 Hardness testing
- 10.20.22 Metallorgraphy
- 10.20.23 Universal Tensile Testing M/C -
Ambient Low Temp.
- 10.20.24 Any other tests -
- 10.30.00 Non-destructive
- 10.30.10 Radiography



FORGE SHOP

- 10.30.20 Ultrasonic Test
- 10.30.30 Dye Penetration
- 10.30.40 MPI
- 10.30.50 Any other NDE
- 11.00.00 Experience with Third Party/Statutory Agency:
Indicate the agency
- 12.00.00 Source of procurement of Dies & availability for
Machining of such dies.
- 13.00.00 Consistency in supply:
- 13.10.00 Has the vendor produced items of similar nature in
past?
- 13.20.00 Has the vendor maintained delivery commitments in
past?
- 13.30.00 Has there been frequent labor trouble in past?
- 13.40.00 Has there been major upset due to faulty
material management?
- 13.50.00 Is the system of planning & scheduling resilient
enough to overcome temporary setbacks & make
up lost time?
- 13.60.00 Has the vendor got standby arrangement for power?
- 13.70.00 Can the vendor quickly offload the work to other
reliable sub-vendor?
- 13.80.00 Total order booked till date.
- 14.00.00 Remarks:

PLACE:

SIGNATURE WITH SEAL

DATE: