



BHARAT HEAVY ELECTRICAL LIMITED

UNIT'S ADDRESS:

UNIT'S PHONE NOS.

CONTACT PERSON'S NAME/DESIGN./PHONE NO./E-MAIL (FROM PURCHASE DEP'T.)

Enquiry No. :

Due Date :

Supplier Qtn. No.:

Date :

SPECIFICATION CUM COMPLIANCE CERTIFICATE FOR PNEUMATIC BARREL PUMP

NOTE:-

- 1. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specifications/requirements shall be treated as non-compliance.**
- 2. The offer and all documents enclosed with offer should be in English language only.**

| | |
|----------------------------------|---------------------------------------|
| ADDRESS OF THE SUPPLIER : | ADDRESS OF THE INDIAN AGENTS : |
| TELEPHONE NOS.: | TELEPHONE NOS.: |
| FAX NOS.: | FAX NOS.: |
| E-MAIL ADDRESS : | E-MAIL ADDRESS : |

SCOPE: SUPPLY & COMMISSIONING OF PNEUMATIC BARREL PUMP COMPLYING WITH SPECIFICATION AS BELOW

| Sl. No | DESCRIPTION FOR BHEL REQUIREMENT | SPECIFIED BY | OFFERED | DEVIATIONS | REMARKS |
|---------------|---|---|----------------|-------------------|----------------|
| 1.0 | PURPOSE & OPERATING MEDIA | | | | |
| 1.1 | Purpose: (Operation) | For filling of lubricating oil into the Journal Shaft Assembly from Barrel. | | | |
| 2.2 | Type of Fluid to be handled / Operating Media | Servo Mesh 680 | | | |
| 2.0 | Technical Data: | | | | |
| 2.1 | Type of BARREL PUMP | Pneumatic (Air Driven), Self Priming & Flame proof. Either Rotary or Piston type. | | | |
| 2.2 | Pump Capacity / flow rate (Adjustable) | Max. 20 to 40 LPM | | | |
| 2.3 | Discharge pressure (Adjustable with relief valve) | 1 - 5 bar | | | |

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| 2.4 | Operating Pressure (air line) | 3-6 Kg/sq.cm | | | |
| 2.5 | Operating Temperature | 20-50 deg.C | | | |
| 2.6 | Air Inlet size | Vendor to Specify | | | |
| 2.7 | Suction Tube length shall be adequate, so that it can empty the barrel completely. | 990 mm (suitable for Std Barrel) | | | |
| 2.8 | Suction Tube Diameter | Vendor to Specify | | | |
| 2.9 | Min. length of Out let Hose/tube | 3 Meters | | | |
| 2.10 | Discharge Size | Vendor to Specify | | | |
| 3.0 | Design & Constructional Features | | | | |
| 3.1 | Material of Construction of the Pump | SS304 / SS316 | | | |
| 3.2 | The material of the pump body, suction pipe etc., shall be homogenous, free from burrs, cracks and any other manufacturing defects and of robust construction for rugged handling. | Vendor to Confirm | | | |
| 3.3 | The barrel pump shall be capable of being screwed on the barrel and the suction pipe/hose shall have a non return foot valve. | Vendor to Confirm | | | |
| 3.4 | Suction hose shall be provided with the suitable strainer of stainless steel wire, having a mesh of 500micron to prevent entry of foreign material into the pump | Vendor to Confirm | | | |
| 3.5 | The seals shall be of adequate design & compatible with Servo Mesh 680 oil. | Vendor to Confirm | | | |
| 3.6 | Exposed surfaces of the pump that come in contact with oil shall be suitably plated with anti rust material. | Vendor to Confirm | | | |
| 3.7 | Parts of the pump which do not come in contact with oil shall be suitably painted to prevent corrosion. | Vendor to Confirm | | | |
| 4.0 | SAFETY ARRANGEMENTS: | | | | |
| 4.1 | Equipment should have adequate and reliable safety interlocks / devices to avoid damage to the equipment, work piece and the operator due to the malfunctioning or mistakes. | Details, if any, to be furnished | | | |
| 4.2 | If any safety / environmental protection enclosure is required it should be built in the equipment by the vendor. | Vendor to Confirm | | | |

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| 5.0 | SPARES: | | | | |
| 5.1 | Vendor should include and offer the spares used on the equipment in sufficient quantity for Guaranty / warranty period for trouble free operation of the equipment. | Vendor to Confirm & Specify the list of Spares | | | |
| 5.2 | In addition to above spares, vendor to supply 3 nos. of outlet hoses/tubes of 3 meters length as mandate. | Vendor to Confirm | | | |
| 6.0 | DOCUMENTATION : Three sets of following documents (Hard copies) in English language should be supplied along with the equipment | | | | |
| 6.1 | Operating manuals of Equipment | Vendor to Confirm | | | |
| 6.2 | Detailed Maintenance manual of the equipment with all drawings of assemblies/sub-assemblies/parts. | Vendor to Confirm | | | |
| 6.3 | Catalogues, O&M Manuals of all bought out items including drawings, wherever applicable. | Vendor to Confirm | | | |
| 7.0 | COMMISSIONING | Vendor to Confirm | | | |
| 7.1 | Supplier to take full responsibility for carrying out the testing of the equipment & it's controls etc. | Vendor to Confirm | | | |
| 7.2 | Successful proving of the equipment at BHEL by the supplier shall be considered as part of commissioning. All tests, as mentioned at clause 8.0 (Equipment Acceptance) shall form part of the commissioning activity. | Vendor to Confirm | | | |
| 8.0 | Equipment ACCEPTANCE: (Tests/Activities should be Performed by Vendor) | | | | |
| 8.1 | Tests/Activities should be carried out at supplier's works on the equipment before dispatch : | | | | |
| 8.1.1 | Demonstration of all features of the equipment & accessories. | Vendor to Confirm | | | |
| 8.1.2 | Performance / Full load test to demonstrate the maximum capacity of the equipment as per Cl. Nos. 2.2, 2.3 & 2.4. | Vendor to Confirm | | | |
| 8.2 | Tests/Activities should be carried out at BHEL works while commissioning the equipment : | | | | |
| 8.2.1 | Demonstration of all features of the equipment & accessories for efficient and effective use of the equipment. | Vendor to Confirm | | | |
| 8.2.2 | During the full load test, the pump shall be able to deliver oil at the rated capacity mentioned above at Cl. Nos. 2.2, 2.3, 2.4 continuously without leakage at any of the sealing points till the drum is emptied. | Vendor to Confirm | | | |

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| 8.2.3 | Supplier's engineer shall demonstrate the operation of Barrel Pump for filling of oil in 2 to 3 components. BHEL will arrange the components / active jobs. | Vendor to Confirm | | | |
| 9.0 | Packing | | | | |
| 9.1 | The barrel transfer pumps shall be given antirust coating, wrapped in polythene bag and then packed in wooden boxes. | Vendor to Confirm | | | |
| 9.2 | Packages shall be made in such a way that they are protected against mechanical damage during transit. | Vendor to Confirm | | | |
| 10.0 | GUARANTEE : | | | | |
| 10.1 | As per BHEL Standard terms & conditions | Vendor to Confirm | | | |
| 10.2 | Service beyond guarantee period | Vendor to Specify | | | |
| 10.3 | Supplier shall be responsible for after sales service of the | Vendor to Confirm | | | |
| 11.0 | GENERAL : | | | | |
| 11.1 | Equipment Model No. | Vendor to Specify | | | |
| 11.2 | Capacity of the equipment | Vendor to Specify | | | |
| 11.3 | Total weight of the equipment | Vendor to Specify | | | |
| 11.4 | Vendor to submit , along with offer, reference list of customers where similar or higher capacity BARREL PUMP's have been supplied mentioning broad specifications of the supplied Barrel Pump, i.e. Model no. & Capacity etc. | Vendor to Confirm & Submit the reference list | | | |
| 11.5 | Detailed catalogues should be submitted with the offer. | Vendor to Confirm | | | |
| 11.6 | Vendors shall submit his latest design. In case of any variance with the present Spec., BHEL reserves the right to study & make | Vendor to Confirm | | | |
| 12.0 | Delivery | Vendor to Specify | | | |