



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

PHONE :2577645
GRAMS : BHARATELEC
FAX NO: 2520719
E-mail: srchandran@bheltry.co.in
Web:

	Enquiry No 2691500053 - 41	Enquiry Date 18.06.2015	Due Date for Quotation 08.08.2015
<p>Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order. Bid should be submitted in two parts. 1.Techno-commercial bid (Part-I) and 2.Price bid(Part-II) in a separate sealed cover and both covers must be placed in a third cover and sealed. Our Enquiry No., Enq. date & Enq. Due date must be written on all three covers.</p>			

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	Hydro Test Station for HPLP BP valves	NO	1.000	1.00	31.12.15

General Note:

Hydro Test Station is intended to test Turbine Bypass system Valves (steam and spray valves) as per specification SPEC:HP:0052 Rev01 and as per Part-A, qualifying criteria

1.0 AREA OF APPLICATION:

The Hydro Test Station is intended to test Turbine Bypass system Valves (steam and spray valves). Dimensional details of valves to be tested in this hydro test station are given in Annexure # 1 at the end of this specification.

2.0 OPERATING PARAMETERS:

2.1 Valves to be tested:

The Valves to be tested will have stems with threaded ends either to pull or push the stem in order to exert force for closing the seat.

Maximum length (between inlet and outlet flange faces), Maximum Height and maximum size (diameter) of valves to be tested are indicated in Annexure 1. Accordingly the test bench size shall be designed and be suitable for testing all listed valves.

2.2 Weight of the valves:

Maximum weight of the valve that will be placed on the machine#s testing table shall be considered as 4000 Kg.

2.3 Test Medium: De-mineralised Water

2.4 Tests to be done:

With de-mineralised water as medium, the following tests shall be carried out:

- a. Shell test: During shell test the stems are to be kept in tightly closed position by pull / push force in order to test the valve with differential pressure, if applicable, on the inlet and outlet sides.
- b. Seat leakage test: During seat leakage test also the stems are to be kept in tightly closed position by pull / push force in order to test the valve from both inlet and outlet sides alternately without repositioning and clamping the valve. For this to happen the

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**

D. CHANDRAMOHAN MANAGER / PURCHASE
Senior Manager / MM / RM (FOSSIL BOILERS)
Purchase / CF & SP Yours faithfully,



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page
2/*

PHONE :2577645
GRAMS : BHARATELEC
FAX NO: 2520719
E-mail: srchandran@bheltry.co.in
Web:

2691500053 / 18.06.2015

23505

pressurizing system of the test bench shall have facility to send pressurized water from inlet and outlet sides. While testing the leakage on outlet side the inlet side alone will be pressurized and while testing the leakage on inlet side the outlet side alone will be pressurized.

2.5 Test Pressure:

S No DESCRIPTION INLET SIDE OUTLET SIDE

1 Maximum shell test pressure 1600 kg / cm²

2 Minimum shell test pressure 63 kg / cm²

3 Maximum shell test pressure 733 kg / cm²

4 Minimum shell test pressure 63 kg / cm²

5 Seat leak test:

Maximum difference in pressure between inlet and outlet is 867 kg / cm²
(1600 # 733)

6 Seat leak test:

Minimum difference in pressure between inlet and outlet is 0 kg / cm²

2.6 Testing Method:

The inlet and outlet flanges of the valve shall be closed manually with the help of suitable sealing plugs for pressurizing and the plugs shall have provisions for water filling, air evacuation and pressurizing. The pressurizing lines on the inlet and outlet sides shall have provisions for fixing the pressure gauges at appropriate locations. The sealing plugs shall have matching threads for tightening against the inlet and outlet flanges with suitable #O# rings for sealing on the inner diameter or face sealing. Vendor to supply inlet and outlet plugs for all valves in Annexure 1.

The pull /pushing force on the valve stem shall be proportional to the increase of pressure inside the test body.

2.7 Clamping fixture:

The valve body shall be clamped or held in position by mechanical / hydraulic means with suitable fixtures. Vendor to supply suitable fixtures for all valves in Annexure 1.

2.8 Maximum Ram force required:

Hydraulic Ram shall be capable of exerting a maximum force of 2,00,000 kgf on the stem in both pull and push modes. The stroke of the ram shall be sufficient to test all valves in Annexure 1.

Provision shall be available on the machine in order to control the ram force by controlling the oil pressure in the ram to set different test loads for testing various valves. Vendor shall provide the details and calculations with regard to ram force Vs oil pressure in the offer.

3.0 HYDRO TEST STATION REQUIREMENTS

3.1 Valve orientation in the test station

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED


18/6/2015

D. CHANDRAMOHAN
Senior Manager / MM / RM
Purchase / CP / OP

MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

PHONE :2577645
GRAMS : BHARATELEC
FAX NO: 2520719
E-mail: srchandran@bheltry.co.in
Web:

2691500053 / 18.06.2015

23505

Clamping fixture shall be designed for loading and testing the valves with its spindle in vertical position. For testing, the valve body will be loaded in the test bench by BHEL using BHEL crane.

3.1.1 Testing flanges

Vendor shall supply suitable sealing plugs as explained in 2.6 to suit all valves indicated in Annexure-1.

3.1.2 Inlet / Outlet

The valve body shall be pressurized from both inlet and outlet sides alternately for checking seat tightness on both sides of the seat in one setting. The clamping system shall be suitably designed for this feature.

3.1.3 Body end sealing

Suitable #O# rings shall be used for sealing the body ends. Vendor to supply suitable O rings for all valves.

3.1.4 #O#- ring quality

Vendor shall specify material, size and shore hardness of the #O# ring.

3.1.5 Sump

A Stainless Steel water sump shall be provided with filtering and re-circulation facility. Capacity of sump shall be minimum 500 litres.

3.2 AIR EVACUATION SYSTEM

3.2.1 Vacuum pump

A vacuum pump has to be provided for evacuating the air from the valve body to a level of approximately #1 bar. Suitable gauge to measure the vacuum shall also be provided.

3.3 WATER PRE-FILLING SYSTEM

3.3.1 Pre-filling:

A centrifugal pump shall be provided for prefilling of the valve body with DM water from the sump. Discharge capacity of Centrifugal pump shall be approximately 125 LPM at around 4 bar. The pre-filling pump shall switch off automatically once the designed prefilling pressure is achieved. Vendor to specify the prefilling details.

3.3.2 Interlock

The pre-filling system shall operate only after the designed vacuum level (approx -1 bar) is achieved in the valve body. Suitable interlocks shall be provided.

3.4 PRESSURIZING SYSTEM

3.4.1 Direction selector

Direction selector mechanism shall be provided to enable pressurizing test body from any side (Inlet side or outlet side).

3.4.2 Testing with Water

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED

MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,

D. CHANDRAMOHAN
Senior Manager / MM / RM
Purchase / CP & SP

BHEL, THIRUCHIRAPALLI - 620014



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page
4/*

PHONE :2577645
GRAMS : BHARATELEC
FAX NO: 2520719
E-mail: srchandran@bheltry.co.in
Web:

2691500053 / 18.06.2015

23505

The water pressurizing system shall consist of multiple stages of pump to achieve a maximum test pressure of 1600 kg / cm². Vendor to specify make, number of stages and the discharge details.

Suitable controls shall be provided to control the rate of pressurizing.

The pressurizing system shall have suitable isolating valves to isolate the pumps from the test body. ON/OFF controls for operating the pumps shall be provided. Tapping points to be provided to read pressure inside the test body, on both inlet and outlet sides. The pressure shall be tapped from both sides of the test body for pressure measurement purpose. The gauge mounting shall be M20 with necessary isolating valves.

Four pressure gauge mounting points shall be provided (2 on inlet side and 2 on outlet side)

2 Nos of Glycerine filled pressure gauges with dial size not less than 200 mm and rating 0- 2000 kg / cm² with accuracy of $\pm 1\%$ shall be supplied along with the Hydro test station other than those mounted on the test bench.

Suitable accumulators shall be provided to even out pressure surges in the hydro / pneumatic circuit. The pressure inside the test body shall be held for a minimum period of 45 minutes. No leakage is acceptable.

3.5 LEAK MEASUREMENT

Suitable system shall be provided for assessing the quantum of leak during seat leak test. Vendor to specify the details of recording facility.

3.6 DEPRESSURIZING

After pressure testing is completed, the pressure inside the test body shall be relieved slowly by means of suitable drain valve. Provision (automatic with manual override) to be made for draining the de-mineralised water back to the sump.

3.7 OPERATOR CONTROL PANEL

The control panel shall have the following minimum essential controls

1. Pressurizing system controls
2. Test Load indicator and Control system
3. Direction selector for Pressurizing
4. Air evacuation system and controls
5. Prefilling system controls
6. Draining system valves
7. Provision for Pressure gauge mounting.
8. Independent pressure gauges for each line.
9. Leak measurement device.
10. On-line chart and print / recording device.

Details of any other controls required on the operator panel, shall be specified by the vendor

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED


D. CHANDRAMOHAN
Senior Manager / MM / RM
Purchase / CP / SP
BHEL, THIRUCHIRAPALLI

MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page
5/*

PHONE :2577645
GRAMS : BHARATELEC
FAX NO: 2520719
E-mail: srchandran@bheltry.co.in
Web:

2691500053 / 18.06.2015

23505

3.8 FOUNDATION FOR THE MACHINE

Foundation of the machine shall be designed by BHEL suitably. Vendor to provide details of foundation layout and loads.

4.0 SPECIMEN TEST BODY

Vendor shall supply one suitable specimen test body to meet the commissioning and prove-out trial requirements. Vendor has to submit the design drawing to obtain BHEL#s approval. The specimen test body shall be capable of withstanding the maximum pressure of 1600 kg / cm² and ram load of 2,00,000 kgf.

5.0 SAFETY

- Safety features shall be built into the equipment system. The supplier shall indicate all details and safety interlocks provided in the equipment. Vendor to furnish details of safety interlocks for critical operations.
- All high-pressure equipment including pressure vessels if any are to be provided with safety relief valve.
- Sliding safety doors fitted with transparent, impact resistant polycarbonate sheet window shall be provided, for visual inspection of the test body under pressure. Vendor to submit details on this arrangement.
- All moving mechanical components are to be suitably guarded for safe operation.
- The test bench shall have test pressure limiting device.
- The test bench shall also have test load limiting device.

6.0 GENERAL


- The air evacuation system, water prefilling system, pressurizing and depressurizing systems of the Hydro test station shall be used for testing the valves. Suitable high pressure hoses and needed accessories shall be quoted item wise.
- The general arrangement drawing of the Hydro test station, Electrical circuit, Water circuit and hydraulic circuit shall be submitted along with the offer. Rating of individual Valves and other items shall be shown in the general arrangement drawing.
- All hoses and cables from operator control panel to various systems of the hydro test station shall be neatly routed and suitably protected.
- All pressure gauges shall be glycerine filled.
- The noise level from the Hydro test station shall not exceed 85 dBA at 1 meter distance from the equipment.
- The machine configuration and machine elements arrangement should have easy accessibility and high rigidity. Self-aligning /fitting, locking & piloting arrangement shall be incorporated in the components and modules to ensure #maintenance free# concept.

7.0 ACCESSORIES

- The offer shall clearly indicate the list of standard accessories

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED


MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,

D. CHANDRAMOHAN
Senior Manager / MM / RM
Purchase / CP & SP

BHEL, THIRUCHIRAPALLI - 620014.



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page
6/*

PHONE :2577645
GRAMS : BHARATELEC
FAX NO: 2520719
E-mail: srchandran@bheltry.co.in
Web:

2691500053 / 18.06.2015

23505

that will be supplied along with the machine.

b. 2 sets of sealing plugs with #O# rings for each Valve mentioned in Annexure -1 of the specification shall be supplied.

c. Any other special accessories shall be quoted separately as optional items.

d. #O# ring repair kit and Tool kit consisting of all hand tools, torque wrenches, spanner sets, Screw drivers, Allen key set both in metric and inches - 1 Set. Vendor to specify the list of such tools and kit in the offer.

8.0 SPARES

8.1 The supplier shall quote all spare parts item wise, required for two years of trouble free operation. The list shall generally include pumps, motors and all valves such as DC valves, NRV, Flow regulating valves, Needle valves in the pressure line with seal kits, End fittings and Ferrules. Vendor to specify the list of spares in the offer. Breakup and cost of spares item wise shall be submitted along with the sealed bit.

8.2 Essential Spares:

8.2.1: One set of Pressure gauges with dial size not less than 200 mm with a rating of 0 # 2000 kg / cm², with an accuracy of $\pm 1\%$ shall be supplied as spare along with the Hydro test station.

8.2.2 : #O# rings for all sealing plugs - 50 sets in each size.

8.2.3: All high pressure hoses - 1 Set

9.0 ELECTRICAL POINTS

a) The electrical input power supply shall be AC 415 V $\pm 10\%$, 50 Hz $\pm 3\%$, 3 Phase 3 Wire System. No neutral conductor.

b) BHEL will provide input power supply at one point only and the vendor has to take care of all other electrical distribution network required for the Station.

c) All electrical motors, limit switches etc, on the machine shall be wired using PVC sheathed cable, running in conduits and converging to common terminal block

d) External wiring from / to control panel, control desk, external motors etc., shall be by means of screened multi-core cables.

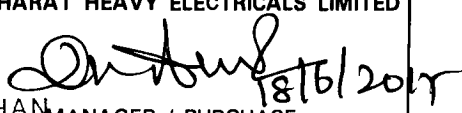
e) Control Voltage for all Solenoid Valves shall be 24Volt DC.

f) Electrical Control panel shall have built in 230V, 5 amps, 3pin plug.

g) Electrical control panel shall be adequately illuminated for maintenance purpose.

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED


D. CHANDRAMOHAN, MANAGER / PURCHASE
Senior Manager / MM / RM (FOSSIL BOILERS)
Purchase / CP & SP
Yours faithfully,
BHEL, THIRUCHIRAPALLI - 620014



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page
7/*

PHONE :2577645
GRAMS : BHARATELEC
FAX NO: 2520719
E-mail: srchandran@bheltry.co.in
Web:

2691500053 / 18.06.2015

23505

h) Machine is to be fitted with 2 Nos of 24 V hand lamp one in the front and one in the rear side of the equipment.

i) All components/devices/terminals shall be identified with numbered ferrules.

j) IP54 protection for all electrics. Totally enclosed Motors shall be used.

k) All Electric Motors shall be of any of the following makes: SIEMENS / ABB / Other reputed makes acceptable to BHEL, conforming to IEC Standards.

l) All electrical devices like contactors, relays, limit switches, push buttons etc., shall be from Siemens/ L&T/ Cutler hammer / Telemecanique.

m) The centrifugal pump and vacuum pump shall be of reputed makes, acceptable to BHEL.

10.0 PNEUMATICS

Nylon reinforced synthetic rubber hoses shall connect Pneumatics forming part of the machine and associated equipment and / or steel tubes.

10.0 HYDRAULICS

a) Vendor to furnish details of any hydraulic circuits if deployed.

b) Such Hydraulic circuits shall be designed with minimum number of control valves and to suit oil of ISO VG 46 grade only.

c) Vendor to provide details of Oil chiller used, Hydraulic Tank Capacity, Hydraulic power pack.

d) All hydraulic pipelines to be neatly laid out.

e) All Hydraulic elements shall be of reputed/proven make.

12.0 LUBRICATION

Automatic timer controlled lubrication system is to be provided for sliding surfaces and all mechanical drives.

13.0 AMBIENT ATMOSPHERIC CONDITION

The Hydro test station with all Sub-Systems shall be suitable for operation in an ambient temperature of +45°C and with a Relative Humidity of 90%, both values do not occur simultaneously. The entire equipment shall be tropicalized in design and construction.

14.0 PAINTING

Painting colour scheme shall be RAL 6011. Apple Green (Polyurethane Paint).

15.0 ERECTION & COMMISSIONING

a) Supplier to take full responsibility for supervision of the erection, start up, testing of machine, its control system & all other

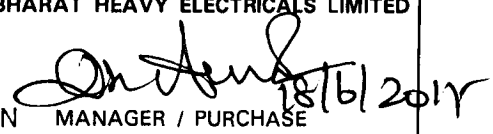
The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED

D. CHANDRAMOHAN
Senior Manager / MM / RM
Purchase / CP & SP

MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,

BHEL, TIRUCHIRAPALLI - 620014.


18/6/2015



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page
8/*

PHONE :2577645
GRAMS : BHARATELEC
FAX NO: 2520719
E-mail: srchandran@bheltry.co.in
Web:

2691500053 / 18.06.2015

23505

supplied equipment etc.

b) Service requirement like power and de-mineralised water shall be provided by BHEL at only one point to be indicated by supplier in their foundation or layout drawings.

c) Requirement like crane and helping personnel will be provided by BHEL free of cost.

d) The supplier shall depute his engineer(s) & personnel for prove-out trials and supervision of erection and commissioning of the machine at BHEL.

16.0 INSPECTION AND PERFORMANCE PROVE-OUT AT SUPPLIER#S WORKS

The Machine shall be offered for inspection at supplier#s works BY BHEL for performance trials to test the design features and capacity of the test station. The tests shall be conducted using specimen test body. Supplier shall Prove-out the performance of Hydro test station for the following points:

a) The vendor shall prove out the working of the test load safety device, at the maximum test load, by pressurizing the specimen test body with de-mineralised water.

b) The vendor shall prove-out the leak tightness of the entire test station by holding pressure at 1600 kg/cm² (de-mineralised water) for a minimum period of 45 minutes continuously. Leak tightness shall be proved out for 3 such cycles. During each cycle the specimen test body will be unloaded and loaded into the clamping system. Any visual leak and pressure drop indicated on the pressure gauges will not be acceptable.

17.0 PERFORMANCE PROVE-OUT AT BHEL

Supplier shall prove-out the performance of Hydro test station for the following points:

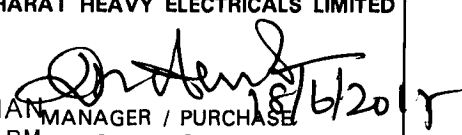
The vendor shall prove out the working of the test load safety device, at the maximum test load, by pressurizing the specimen test body with de-mineralised water.

The vendor shall prove-out the leak tightness of the entire test station by holding pressure at 1600 kg/cm² (de-mineralised water) for a minimum period of 45 minutes continuously. Leak tightness shall be proved out for 5 such cycles. During each cycle the specimen test body will be unloaded and loaded into the clamping system. Any visual leak and pressure drop indicated on the pressure gauges will not be acceptable.

18.0 TRAINING

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED


D. CHANDRAMOHAN
Senior Manager / MM / RM
Purchase / CP & SP
BHEL, TIRUCHY - 620 014
MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,
18/6/2015



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page
9/*

PHONE :2577645
GRAMS : BHARATELEC
FAX NO: 2520719
E-mail: srchandran@bheltry.co.in
Web:

2691500053 / 18.06.2015

23505

The Supplier shall train two BHEL Engineers in the Operation, Trouble Shooting and Maintenance of the Hydro test station at the Supplier's Works for a minimum period of 5 working Days.

The Supplier's Service Engineer / Application Engineer shall train BHEL Engineers in the Operation, Trouble Shooting and Maintenance of the Hydro test station for a minimum period of 6 Working Days, after commissioning of the Equipment, at BHEL Works.

The training shall include the following:

- Safety
- Operation of the machine
- Trouble-Shooting
- All special features of the machine
- Electrical / Mechanical / Hydraulic / Pneumatic / Electronics systems

19.0 DOCUMENTS AND MANUALS

19.1 Documents to be submitted along with offer:

- Details of hydraulic/pneumatic circuits employed
- Minimum/Maximum clamping distance between plugs for each valve shall be indicated
- List and details of clamping fixtures for all valves shall be indicated
- Stroke length of hydraulic ram
- Details and calculations with regard to ram force vs oil pressure
- List and details of sealing plugs for all valves
- Pre-filling pump details
- Leak measuring and recording facility
- GA drawing of the hydro test station
- List of repair kits and tool kits
- List of spares required for two years of trouble free operation

19.2 Documents required along with supply:

Operation manual shall include all operations of the machine and its accessories with full details and safety instructions. All the features of the machine and how to operate them shall be explained in detail. Maintenance manual shall include all machine construction drawing, Component drawings, assembly drawings, explanation and details about the sequence of operations of Electrical, Electronic, Pneumatic & Hydraulic circuits. Hard copy : 3 Nos ; CD Media: 1 No.

19.2 Detailed spare parts specification for the electrical, electronics, mechanical, hydraulics (and pneumatic if any) to be furnished for items made by the supplier and for the items bought out and assembled by the supplier. Hard Copy : 3 Nos.

19.3 Electrical Wiring Drawings # Power & Control Circuits.

Pneumatic/Hydraulic Circuit Diagrams. Specifications/Ratings of All Bought-Out-Items. Trouble Shooting Chart for Main and all Sub-Systems.

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED

D. CHANDRAMOHAN
Senior Manager / MM / RM
Purchase / CP & SP
BHEL, THIRUCHIRAPALLI - 620014

MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,

18/6/2015



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page
10/11
PHONE :2577645
GRAMS : BHARATELEC
FAX NO: 2520719
E-mail: srchandran@bheltry.co.in
Web:

2691500053 / 18.06.2015

23505

Hard copy : 3 Nos.

19.4 Equipment data / commissioning data to be provided.

20.0 PERFORMANCE GUARANTEE

Equipment has to be guaranteed for its performance, for a minimum of 12 months from the date of commissioning.

21.0 GENERAL INFORMATION

The vendor should submit the following information also along with the offer:

- Machine Model
- Total Connected Load (KVA)
- Floor area required (Length, Width, Height) for complete machine & accessories:
- Painting of Machine/ Electrical Panels: RAL 6011 Apple Green (Polyurethane Paint) : Vendor to Confirm
- Total weight of the machine
- Weight of heaviest part of machine
- Weight of the heaviest assembly/ sub-assembly of the Machine
- Dimensions of largest part / subassembly of the machine

All the tenders may be addressed to the following address:

**The Tender Opening Cell / MM
Room No: 26, Building 24, Ground Floor
Bharat Heavy Electricals Limited
TIRUCHIRAPALLI 620014**

In case personal delivery of the offer, it shall be dropped into the respective box kept in Room No: 26, after duly entering the data in the system.

Offers will be accepted only up to 14.00 Hrs on the due date. Therefore, vendors shall ensure to submit the offers well before this time. All due date extension requirements should be addressed to the respective Purchase mail IDs. All the due date extension requests from vendors will be considered only up to 48 hours before the due date and time.

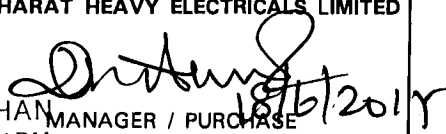
Vendors are requested to avoid submission of offers through e mail / fax. In case of any unavoidable situation, offers shall be sent through e mail to the following mail ID only tender_cell@bheltry.co.in.

As tenders are being opened by Common Tender Opening Cell, offer covers should be sealed with tenderer's distinctive seal and super scribed with correct Tender No. item of supply and due date of opening.

The offers will be opened at 14.30 hrs on the due date of the tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

The offers should reach us 30 minutes before the time of opening of tenders. The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**


D. CHANDRAMOHAN, MANAGER / PURCHASE
Senior Manager / MM / RM (FOSSIL BOILERS)
Purchase / CP & SP
Yours faithfully,
BHEL, TIRUCHIRAPALLI 620014



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

Page
11/11

PHONE :2577645
GRAMS : BHARATELEC
FAX NO: 2520719
E-mail: srchandran@bheltry.co.in
Web:

2691500053 / 18.06.2015

23505


Enclosures:

"LD clause has to be confirmed without fail."

The offers should reach us 30 minutes before the time of opening of tenders.
The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED

D. CHANDRAMOHAN
Senior Manager / MM / RM
Purchase / CP & SP
BHEL, THIRUCHIRAPALLI - 620014


MANAGER / PURCHASE
(FOSSIL BOILERS)
Yours faithfully,
18/6/2015

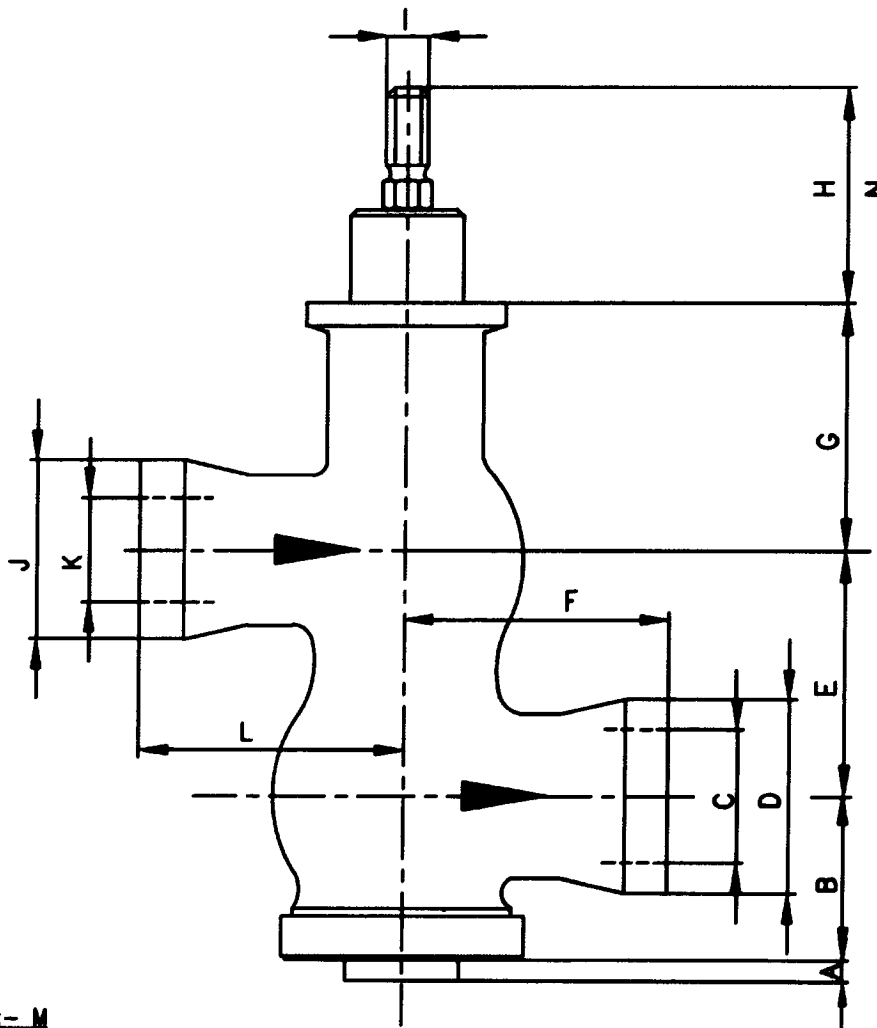


365-147

PE/ VALVES
BHEL/TRICHY-14

TECHNICAL SPECIFICATION
FOR
HP BYPASS VALVE HYDRO TEST STATION

ANNEXURE-1: FIG 1. VALVE -TYPE ARS (SI Nos 1 to 8 in chart)



WEIGHT:-- M

Signature
18/6/2015

Revision	Date	Altered	Chd & Appd	Revision	Date	Altered	Chd&Appd	Sheet 11 of 18
01	08.05.15	M.S.V	N.R					
Prepared	M.S.V		Chd & Appd	N.R		SPEC:HP:0052		01
Date	10.02.2015		Date	10.02.2015				

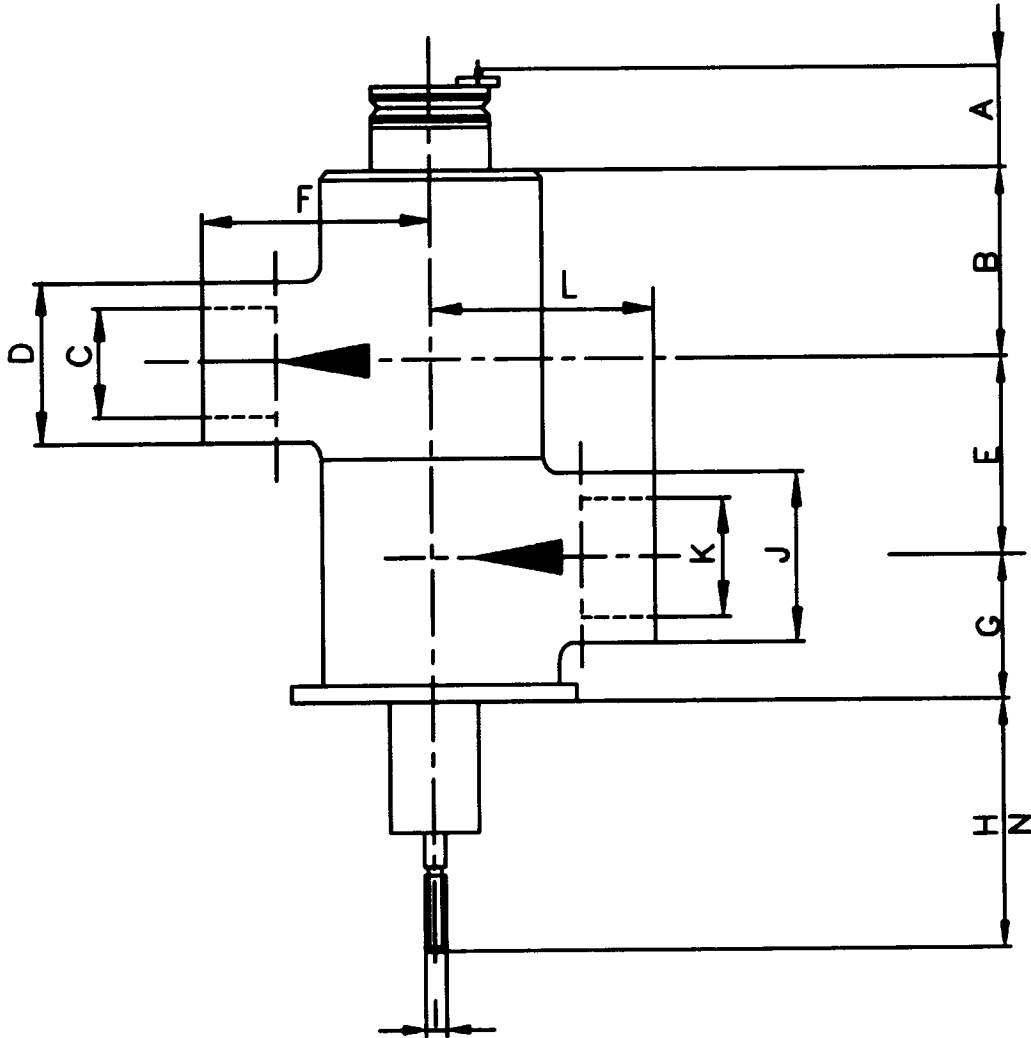


365-147

PE/ VALVES
BHEL/TRICHY-14

TECHNICAL SPECIFICATION
FOR
HP BYPASS VALVE HYDRO TEST STATION

ANNEXURE-1: FIG 2. VALVE -TYPE E22S, E32S, E45S (SI Nos 13 to 15 in chart)



WEIGHT: M

Signature 18/6/2015

Revision	Date	Altered	Chd & Appd	Revision	Date	Altered	Chd&Appd	Sheet 12 of 18
01	08.05.15	M.S.V	N.R					
Prepared	M.S.V		Chd & Appd	N.R		SPEC:HP:0052		01
Date	10.02.2015	Date	10.02.2015					

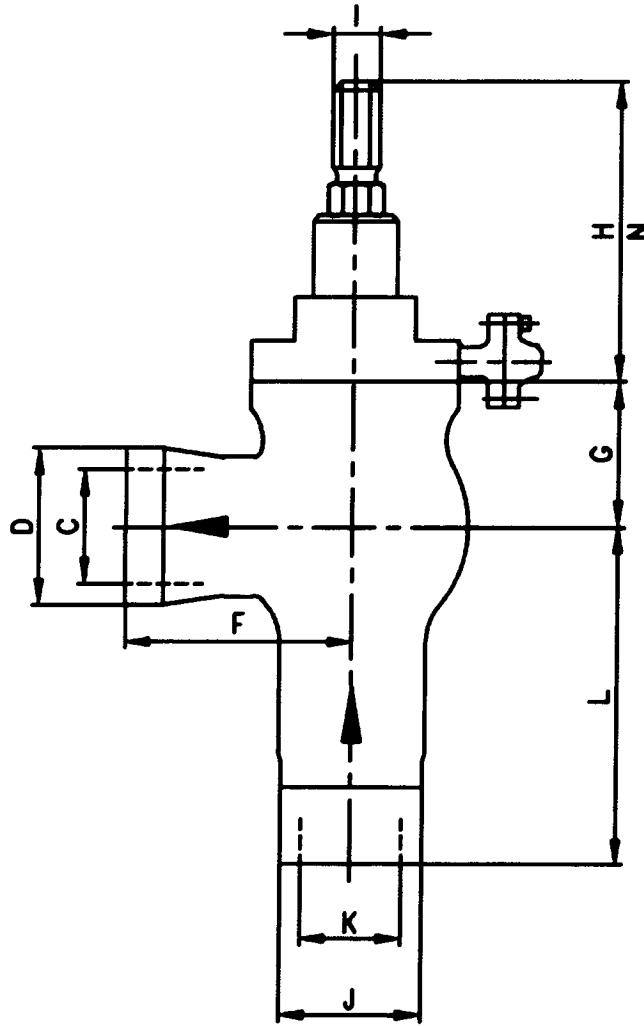


365-147

PE/ VALVES
BHEL/TRICHY-14

TECHNICAL SPECIFICATION
FOR
HP BYPASS VALVE HYDRO TEST STATION

ANNEXURE-1: FIG 3. VALVE -TYPE AV (SI Nos 9 to 12 in chart)



WEIGHT: M

Signature
18/02/2015

Revision	Date	Altered	Chd & Appd	Revision	Date	Altered	Chd&Appd	Sheet 13 of 18
01	08.05.15	M.S.V	N.R					
Prepared	M.S.V		Chd & Appd	N.R		SPEC:HP:0052		01
Date	10.02.2015		Date	10.02.2015				

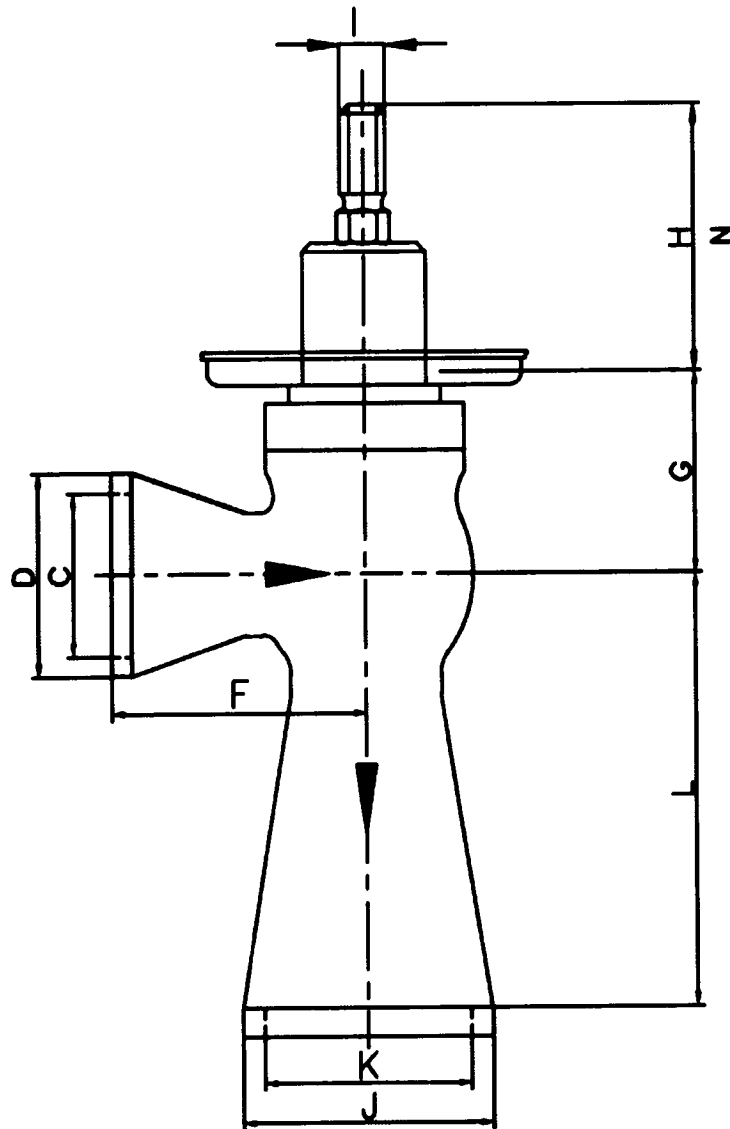


365-147

PE/ VALVES
BHEL/TRICHY-14

TECHNICAL SPECIFICATION
FOR
HP BYPASS VALVE HYDRO TEST STATION

ANNEXURE-1: FIG 4. VALVE -TYPE NR 64 (SI No 16 in chart)



WEIGHT: M

Signature
18/6/2015

Revision	Date	Altered	Chd & Appd	Revision	Date	Altered	Chd&Appd	Sheet 14 of 18
01	08.05.15	M.S.V	N.R					
Prepared	M.S.V		Chd & Appd	N.R		SPEC:HP:0052		01
Date	10.02.2015	Date	10.02.2015					

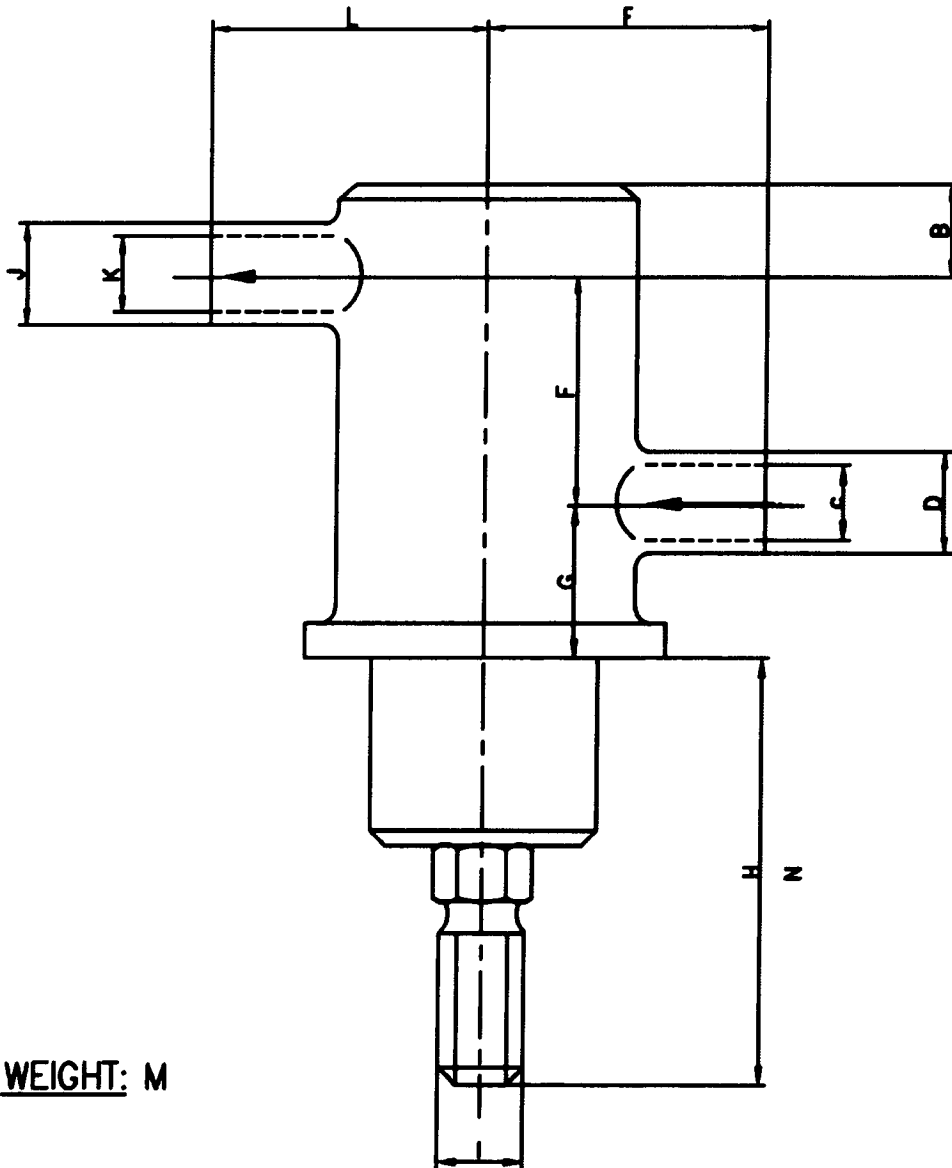


365-147

PE/ VALVES
BHEL/TRICHY-14

TECHNICAL SPECIFICATION
FOR
HP BYPASS VALVE HYDRO TEST STATION

ANNEXURE-1: FIG 5. VALVE -TYPE NR 100 (SI No 17 in chart)



WEIGHT: M

Signature
18/6/2015

Revision	Date	Altered	Chd & Appd	Revision	Date	Altered	Chd&Appd	Sheet 15 of 18
01	08.05.15	M.S.V	N.R					
Prepared	M.S.V	Chd & Appd	N.R	SPEC:HP:0052		01		
Date	10.02.2015	Date	10.02.2015					

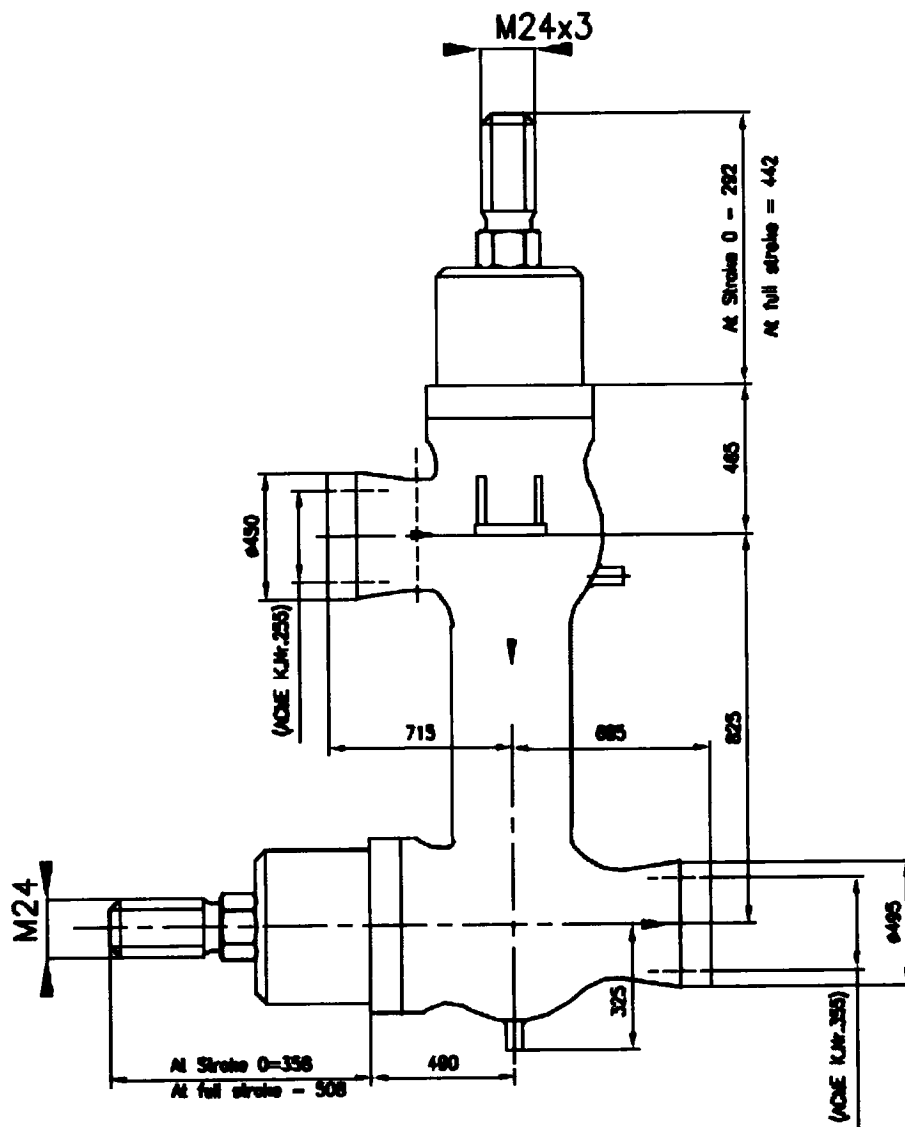


365-147

PE/ VALVES
BHEL/TRICHY-14

TECHNICAL SPECIFICATION
FOR
HP BYPASS VALVE HYDRO TEST STATION

ANNEXURE-1: FIG 6. VALVE -TYPE LP BP (SI No 18 in chart)



Weight: 2157 Kg

Signature
18/6/2015

Revision	Date	Altered	Chd & Appd	Revision	Date	Altered	Chd&Appd	Sheet 16 of 18
01	08.05.15	M.S.V	N.R					
Prepared	M.S.V		Chd & Appd	N.R		SPEC:HP:0052		01
Date	10.02.2015		Date	10.02.2015				



365-147

PE/ VALVES
BHEL/TRICHY-14

TECHNICAL SPECIFICATION

FOR

HP BYPASS VALVE HYDRO TEST STATION

VALVE DETAILS FOR TEST BENCH

S.no.	VALVE TYPE	A	B	C	D	E	F	G	H (at lift=0)	I	J	K	L	M	N (at lift=max)	Action required on stem for closing the valve
1	ARS72	25	210	Tr140x6	Max Dia225	270	320	280	337	M40x2	Max Dia210	Tr 120x6	320	298 Kg	277	Pull
2	ARS90	25	230	Acme Power Thread No. 175	Max Dia250	300	360	300	321	M40x2	Max DIA230	Acme Power Thread no. 122	360	418.7 Kg	261	Pull
3	ARS100	25	255	Acme Power Thread No. 185	Max Dia280	340	400	340	337	M40x2	Max DIA275	Acme Power Thread No.142	400	530 Kg	277	Pull
4	ARS112	35	307	Acme Power Thread No. 225	Max DIA330	380	450	370	341	M40x2	Max DIA320	Acme Power Thread No. 155	450	689 Kg	261	Pull
5	ARS 140 (WITH SPOOL)	35	380	Acme Power Thread No. 285	Max DIA390	470	510	475	356	M50x2	Max DIA368	Acme Power Thread No. 205	830	1189 Kg	276	Pull
6	ARS100 (WITH SPOOL)	25	255	Acme Power Thread No. 185	Max DIA280	340	400	340	321	M40x2	Max DIA265	Acme Power Thread No.142	680	617 Kg	261	Pull
7	ARS112 (WITH SPOOL)	35	307	Acme Power Thread No. 225	Max DIA330	380	450	370	341	M40x2	Max DIA295	Acme Power Thread No. 155	740	804 Kg	261	Pull
8	ARS 140A	35	380	Acme Power Thread No. 285	Max DIA390	470	510	475	346	M50x2	Max DIA400	Acme Power Thread No. 205	560	1173 Kg	266	Pull

Revision	Date	Altered	Chd & Appd	Revision	Date	Altered	Chd&Appd
Prepared		M.S.V	Chd & Appd		N.R		
Date	10.02.2015		Date	10.02.2015			

SPEC:HP:0052

00

Dr. Arund 18/6/2015



365-147

PE/ VALVES
BHEL/TRICHY-14

TECHNICAL SPECIFICATION
FOR

HP BYPASS VALVE HYDRO TEST STATION

S.no.	VALVE TYPE	A	B	C	D	E	F	G	H (at lift=0)	I	J	K	L	M	N (at lift=max)	Action required on stem for closing the valve
9	AV100	NA	NA	Acme Power Thread No. 185	Max DIA330	NA	450	280	438	M40x2	Max DIA275	Acme Power Thread No. 142	450	507.8 Kg	498	Push
10	AV140 (WITH SPOOL)	NA	NA	Acme Power Thread No. 325	Max DIA420	NA	560	363	443	M50x2	Max DIA368	Acme Power Thread No. 205	937	1322 Kg	523	Push
11	AV112 (WITH SPOOL)	NA	NA	Acme Power Thread No. 245	Max DIA340	NA	450	276	444	M40x2	Max DIA295	Acme Power Thread No. 155	800	959 Kg	524	Push
12	AV140	NA	NA	Acme Power Thread No. 325	Max DIA420	NA	560	363	443	M50x2	Max DIA373	Acme Power Thread No. 205	657	1182 Kg	523	Push
13	E22S	80.1	92.9	M33x2-6H	Max DIA75	97	160	63	173.4	M14x1.5	Max DIA75	M33x2	160	29 Kg	148.4	Pull
14	E32S	80.1	92.9	Tr. 48x3	Max DIA130	160	205	125	232.4	M22x1.5	Max DIA130	Tr.48x3	205	120 Kg	192.4	Pull
15	E45S	80.1	92.9	Tr. 48x3	Max DIA130	160	205	125	236.7	M22x1.5	Max DIA130	Tr.48x3	205	120 Kg	191.7	Pull
16	NR64-500EK	NA	NA	Tr. 355x12	Max DIA575	NA	750	508	540	Acme Power No. 70	Max DIA 575	Tr.355x12	885	2600 Kg	640	Push
17	NR100-50	NA	44	M42x2	Max DIA65	70	120	95	157	M16x1.5	Max DIA 65	M42x2	120	15 Kg	187	Push
18	LPBP 150 MW															

DIMENSIONS INDICATED IN DRAWING


Revision	Date	Altered	Chd & Appd	Revision	Date	Altered	Chd&Appd
Prepared		M.S.V	Chd & Appd	N.R			
Date	10.02.2015		Date	10.02.2015			
							SPEC:HP:0052
							00

[Handwritten Signature]
18/11/2015

PART A**HYDRO TEST STATION – 1600 kg/cm²****SECTION – I: QUALIFYING CRITERIA**

The BIDDER has to compulsorily meet the following requirements to get qualified for consideration of the offer

S. No.	REQUIREMENTS	VENDOR'S RESPONSE
1	Only those vendors (OEMs), who have supplied and commissioned at least ONE HYDRO TEST STATION with test pressure of 1,500 kg/cm ² and with ram force of 1,50,000 kgf or higher, for testing valves in the past and such station is presently working satisfactorily for more than one year (as on the date of opening of this Tender), should quote. However, if such station (s) has/ had been supplied to BHEL, then such station should presently be working satisfactorily for more than six months after its commissioning and acceptance (as on the date of opening of this Tender) in BHEL.	
The vendor should submit the following information where similar station has been supplied, for qualification of their offer.		
1.1	Name and postal address of the customer / company where similar station is installed.	
1.2	Name and designation of the contact person of the customer.	
1.3	Phone, FAX no. and email address of the contact person of the customer.	
1.4	Month and Year of commissioning.	
1.5	Application for which the station is supplied	
1.6	Performance certificate from the customer regarding satisfactory performance of test station supplied to them.	
2.0	BHEL reserves the right to verify the information provided by vendor. In case the information provided by vendor is found to be false/ incorrect, the offer shall be rejected.	
2.1	DELIVERY: The bidder shall quote the best possible delivery. However the delivery shall not exceed 8 months with an additional grace period of 2 months. The additional grace period will attract a penalty, which is explained in the commercial terms of the enquiry. The delivery period shall be reckoned from the date of purchase order to dispatch from the vendor works.	


 D. CHANDRAMOHAN
 Senior Manager / MM / RM
 Purchase / CP & SP
 BHEL, TIRUCHY - 620 014.

SECTION – II


The BIDDER / VENDOR is requested to provide the following information:

S. No.	REQUIREMENTS	VENDOR'S RESPONSE
3.0	The BIDDER/VENDOR to furnish Reference List of Customers, with full address, details of contact person, where HYDRO TEST STATION has been supplied in the past.	
4.0	Details of HYDRO TEST STATION supplied to other BHEL units, if any, (Year of commissioning, Max test Pressure, maximum ram force).	
5.0	Details on SERVICE-AFTER-SALES Set-Up in India including the Addresses of Agents / Service Centers in South India.	
6.0	Any Additional Data to supplement the manufacturing capability of the BIDDER for the subject equipment.	

SECTION – III

The BIDDER to note:

S. No.	PARTICULARS	VENDOR'S RESPONSE.
7.0	The BIDDER / VENDOR shall submit the offer in TWO PARTS. 1. Technical Offer [with PART A & PART B] and Commercial offer. 2. Price Bid.	
8.0	The Offer shall contain a comparative statement of Technical Specifications demanded by BHEL and Offer Details submitted by the Bidder , against each clause. A just 'CONFIRMED' or 'COMPLIED' or 'YES' or 'NO-DEVIATION' or similar words in the technical comparative statement may lead to disqualification of the Technical Offer.	
9.0	The Technical Offer shall be supported by Product Catalogue and Data Sheets in ORIGINAL and complete technical details of 'Bought-Out-Items' with copies of Product Catalogue and Selection Criteria	
10.0	The Commercial Offer (given with the Technical Offer) shall contain the Scope of Supply and the Un-Priced Part of the Price-Bid, for confirmation	
11.0	For obtaining the performance certificate from the customer, a suggestive format is provided in SECTION - IV .	



D. CHANDRAMOHAN
Senior Manager / MM / RM
Purchaser / C.P. / CP
BHEL, TIRUCHY - 613 014.

SECTION – IV

The Performance Certificate should be produced on Customer's Letter Head.

PERFORMANCE CERTIFICATE

1. Supplier of the Hydro Test station	
2. Make & Model of the Test station	
3. Month & Year of Commissioning	
4. Area of application for which the test station is used.	
5. a. Max. Test Pressure of Test station. b. Max. Ram force of Test station c. Max. Distance between the sealing plugs. d. The diameter of the largest sealing plug.	
6. Performance of the Station (Strike off whichever is not applicable)	Best in the market Satisfactory Good Average Not Satisfactory
7. Any Other remarks	
<p>Date: _____</p> <p style="text-align: right;">Signature & Seal of the Authority Issuing the Performance Certificate</p>	


 D. CHANDRAMOHAN
 Senior Manager / MM / RM
 Purchase / CP & SP
 BHEL, TIRUCHY - 620 014.

BHARAT HEAVY ELECTRICALS LIMITED TIRUCHIRAPALLI
CAPITAL PURCHASE

Annexure- II

ACCEPTANCE OF COMMERCIAL TERMS AND CONDITIONS BY THE VENDORS.

(This should be essentially filled in and sent along with the techno-commercial offer without fail. If this check list is not filled and submitted along with techno-commercial offer (Part I) or if the vendor does not confirm acceptance to the terms and conditions proposed herein, BHEL reserves the right to reject such offers)

CHECK-LIST FOR INDIGENOUS VENDORS

SI No	DESCRIPTION
1.	<p>The Bidders shall submit their offer in TWO INNER ENVELOPES as indicated below which shall be sealed in one outer envelope.</p> <ul style="list-style-type: none"> ❖ Envelope I: This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked "Part I - Technical and commercial bid", indicating Enquiry No., Due Date and Address & Reference of the Bidder. ❖ Envelope II: This sealed envelope should contain price details. This envelope should be clearly marked "Part II - Price bid", indicating Enquiry No., Due Date and Address & Reference of the Bidder. This part should contain the schedule of price particulars and must be co-related to the technical details provided in Part I. <p>All the two envelopes (Part I&II) shall be put in one cover, duly sealed, super scribing as "Part I and Part II of Enquiry No., due date of opening" and the address and reference of the Bidder. The offer received without the above guidelines, will not be considered for opening.</p> <p>The above offer should reach this office on or before the due date by 14.00 Hrs (IST). Late offers will not be considered. Tender should not be addressed to any Individual's name but only by designation to:</p> <ol style="list-style-type: none"> 1) Please submit your offer on F.O.R - BHEL, Trichy (Tamilnadu) basis and in two part (part-i: techno-commercial bid and part-ii: price bid) in a separate covers and both covers to be placed in an envelope which is super scribed with enquiry no, enquiry date and due date of tender opening. 2) If the offer is submitted in single part and the same will be liable for rejection. 3) All the Tenders may be addressed to the following address to The Tender Opening Cell/MM Room No-26, Building – 24, Ground Floor Bharat Heavy Electrical Limited Tiruchirappalli- 620014., TAMILNADU, INDIA 4) In case personal delivery of the offer, it shall be dropped into the respective box after duly entering the data in the system kept in room no. 26. 5) Offers will be accepted received till 14.00 hrs on the due date. Therefore Vendors shall ensure to submit the offers before this time. 6) Vendors are requested to avoid submission of offers thro email / fax. In case of any unavoidable situation, offers shall be sent thro email to the following mail ID only "tender_cell@bheltry.co.in " <p>Tenders should be free from CORRECTIONS AND ERASURES. Corrections if any, must be attested. All amounts shall be indicated both in words as well as in figures. In case of any difference between amount quoted in words and figures, amount quoted in words shall prevail.</p> <p>Offers should be in ENGLISH and accompanied by detailed technical literature, catalogue and detailed dimensional drawings in ENGLISH or otherwise, the offers will not be considered.</p>
2.	<p><u>OPENING OF TENDERS</u></p> <p>The Part I- Technical & commercial bid would be opened on the Tender opening date.</p> <p>Part-II, Price bid of technically suitable Bidders alone would be opened after complete evaluation of Part-I. Hence the Bidders are required to submit their best competitive price in the price bid in a sealed cover (Part-II). In case of necessity BHEL reserves the right to go for a reverse auction (RA) instead of opening the submitted sealed bid, which will be decided after technical evaluation. Information and general terms and conditions covering RA are given in this Annexure- I (Point no.16).</p> <p>Date and time of Price Bid (Part-II) opening / RA conducting date shall be intimated to the technically and commercially acceptable bidders only. Clarifications if any required by BHEL for Technical evaluation would be sought from bidders before opening of Part II - Price Bid/ RA</p>

3.	<p><u>TAXES AND DUTIES :</u> All Taxes and Duties payable as extra to the quoted price should be specifically stated in offers along with CST & TIN No / Tariff No. etc., failing which the purchaser will not be liable for payment of such Taxes and Duties. Our TIN No. 33243560005, TNGST No. 3560005, CST. No. 239383 Dt. 11-06-1991 & BHEL ECC No. AAACB4146PXM012, Service Tax Reg No (STC)- AAACB4146PST006. Assessment circle Tiruverambur.</p> <p>Cenvat credit & VAT credit (for Indian Bidders only): If any Excise Duty is payable, the chapter head / sub-head reference and the rate of the duty should be quoted. If the tenderer is availing CENVAT credit for his input materials, the effect of Proforma credit should be passed on to the purchaser</p> <p>Income Tax applicable Any service charges payable towards supervision of E&C, training, performance prove-out etc., will be released after deduction of Income Tax as per Indian Income Tax Act / as per the Govt. of India rules and TDS certificate will be issued by BHEL for such deductions. Applicable service tax on E&C charges will be payable extra. The liability of depositing the same to the Govt. will be of the supplier</p>	
No row shall be left blank. Please indicate NA, in case the item is “not applicable”		Vendor's confirmation
Validity: Validity of the offer should be 120 days from the date of tender opening.		
4.	<p>Release of Purchase Order:</p> <ul style="list-style-type: none"> ➤ Purchase Orders (separate for supply and I&C portion if applicable) will be released on the successful vendor (L1 vendor) ➤ Order shall be placed on single vendor on cumulative L1 basis. ➤ This tender is composite in nature and cannot be split-up to more than one vendor. Hence the entire work will be awarded to only lowest bidder of the tender. Work cannot be split-up and given to MSE vendor if they are L2 or above ranking in the tender. 	
5.	<p><u>Payment terms for Supply Portion</u> 80% Payment after receipt and acceptance of material and balance 20% within 45-90 days after commissioning against submission of 10%PBG for order value.</p>	
<p><u>Installation & Commissioning Portion (if applicable only):</u> 100% of the Erection / commissioning charges (in case contract involves erection /commissioning) shall be paid only on completion of such erection / commissioning at BHEL</p>		
<p style="color: red;">Any deviation in the above payment term will attract loading as mentioned below. “Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders.</p>		
6.	<p>Performance Bank Guarantee (PBG): The Bidder, in the event of an order, should furnish a Bank Guarantee from an Indian Bank approved by BHEL, at no extra cost in a format prescribed by BHEL, along with the order, for an amount equivalent to 10% (Ten percent) of the value of the contract. The PBG shall be valid for a period of 18 months from the date of dispatch or 12 months from the date of receipt / acceptance / commissioning of the equipment at BHEL, Tiruchi whichever is more, with a claim period of two months.</p> <p>The Performance Bank Guarantee shall be obtained from any one of the following banks which is a member bank in our consortium of banks.</p> <p>LIST OF CONSORTIUM BANKS 1. DEUTSCHE BANK 2.HDFC BANK 3.ANZ GRINDLAYS BANK 4.CITI BANK 5.STANDARD CHARTERED BANK 6.BANK OF AMERICA 7.ABN AMRO BANK 8.IDBI LTD 9.ICICI BANK LTD 10.THE HONGKONG AND SHANGHAI BANKING CORPORATION LTD.</p> <p>LIST OF NATIONALISED BANKS 1.ALLAHABAD BANK 2.ANDHRA BANK 3.BANK OF INDIA 4.BANK OF BARODA 5.BANK OF MAHARASTRA 6.BHARATH OVERSEAS BANK 7.CANARA BANK 8.CENTRAL BANK OF INDIA 9.CORPORATION BANK 10.DENA BANK 11.INDIAN BANK 12.INDIAN OVERSEAS BANK 13.OREINTAL BANK OF COMMERCE 14.PUNJAB NATIONAL BANK 15.PUNJAB & SIND BANK 16.STATE BANK OF INDIA 17.STATE BANK OF TRAVANCORE 18.STATE BANK OF MYSORE 19.STATE BANK OF BIKANER & JAIPUR 20.STATE BANK OF HYDERABAD 21.STATE BANK OF PATIALA 22.STATE BANK OF MAHARASTRA 23.STATE BANK OF SOURASTRA(SBI-13.09.08) 24.SYNDICATE BANK 25.UCO BANK 26.UNION BANK OF INDIA 27.UNITED BANK OF INDIA 28.VIJAYA BANK</p> <p><u>If PBG is issued by a Foreign counter part of the BHEL consortium Indian Bank, in case of claim against the PBG , it will be lodged in any one of the Indian counters of the Foreign Bank which issued the PBG.</u></p>	

7.	<p>Liquidated damages (LD): The delivery of the goods specified in the purchase order should be made within the time prescribed. LD for delay in 'Supply' and/or 'I&C' will be applicable to the delays attributed to vendor. LD will be considered separately for 'Delivery' and 'I &C'. Where the seller supplies or dispatches the goods, beyond the delivery period Liquidated damages shall be applicable 0.5% of the total order value per week or part thereof subject to a maximum of 10% of the total order value.</p> <p>The rate of LD for delayed E&C shall be @ 0.5% per week of delay of total PO value (Supply + I &C) in I &C subject to a maximum of 10% of total PO value (Supply + I&C).</p> <p>For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part thereof subject to a maximum of 10% of the total order value.</p> <p>Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).</p>	
8.	<p>Risk Purchase: Alternatively the purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated as aforesaid or if the same were not available from the best and the nearest available substitute. The supplier shall be liable for any loss which the Purchaser may sustain by reason of such risk purchases.</p>	
9.	<p>Delivery terms and evaluation process: Indian Bidders should submit their offer on FOR BHEL, Trichy basis. Packing & Forwarding and Freight & Insurance charges from works to BHEL, Trichy to be indicated separately if extra from basic rate. Applicable % of ED & Sales Tax , Commissioning Charges should be clearly indicated.</p> <p>Evaluation of offers shall be on the basis of delivered cost (Net cash outflow to BHEL)</p>	
10.	<p>Guarantee: Vendors shall provide a guarantee for a period of 12 months from the date of commissioning of the equipment or 18 months from date of supply, whichever is earlier. The date of B/L or AWB shall be taken as the date of supply. Also, a PBG has to be given which shall cover the guarantee period (with additional 2 months as claim period). Normally No deviation permitted and the deviated offers are liable for rejection.</p>	
11.	<p>Short shipment / Warranty replacement: In case of any short shipment in the main equipment / spares, Customs Duty levied on such supplies, shall be borne by the supplier. Any warranty replacement during the warrantee period shall be on FOR, BHEL, Tiruchirappalli, basis.</p>	
12.	<p>Inspection & Testing: All goods shall be subject to inspection by BHEL or its authorized representatives at supplier's works or at BHEL stores or at any other place in India indicated by BHEL as the case may be. The supplier will not charge for the facilities provided for inspection of goods. In case of machine tools, the machine would be inspected and proved at supplier's works prior to dispatch however, final inspection and acceptance of the machine will be carried after installation of the machine at BHEL, Tiruchirappalli.</p>	
13.	<p>Test certificates / Operating and Maintenance manuals: The Bidders shall clearly mention in their offer, that Test Certificates and Operating Maintenance Manuals, etc., as called for in the Technical Specification, in the required number of copies will be provided at no extra cost.</p>	
14.	<p>Payment through Bank is not preferred. In case of Payment through Bank is opted by Supplier, BHEL prefers documents submission through bank with copy of LR and door delivery of Goods to Site/Stores with Consignee copy attached. In this case Loading will be 3% on the offered value. Offers of indigenous Suppliers with payment terms as LC/Advance Payment are liable for rejection.</p>	
15.	<p>BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.</p>	

<p>16.</p>	<p>Reverse Auction (RA): BHEL reserves the right to conduct on-line internet Reverse Auction ie. ONLINE BIDDING (THROUGH A SERVICE PROVIDER) for finalizing the Tender. This decision will be communicated to the technically qualified vendors after technical evaluation. Details / General terms / guidelines for conduct of RA are shown below Vendors are requested to confirm their acceptance for BHEL proceeding with RA route for finalization of the enquiry.</p> <ol style="list-style-type: none"> 1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate. 2. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet. 3. BHEL will inform the vendor in writing in case of reverse auction, the details of Service Provider to enable them to contact & get trained. 4. Business rules like event date, time, start price, bid decrement, extensions etc. also will be communicated through service provider for compliance. 5. Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to participate in the event. 6. BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction 7. Reverse auction will be conducted on scheduled date & time. 8. At the end of Reverse Auction event, the lowest bidder value will be known on the network. 9. The lowest bidder has to Fax/e-mail the duly signed Filled-in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail. 10. Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure. 11. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price Bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL's standard practice. 12. BHEL reserves the right to negotiate if need be, with the "L1" vendor of the Reverse Auction 13. <u>BHEL reserves the right not to consider offers from vendors not complying with the RA process for finalization of the enquiry.</u> 14. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted. <p>In case BHEL decides to go for reverse auction, the H1 bidder(s) (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.</p>	
<p>17.</p>	<p><u>Special Provisions for Micro and Small Enterprises (MSE)</u></p> <p>MSE suppliers can avail the intended benefits only if they submit along with offer, attested copies of either EM II (Entrepreneur Memorandum Part II) certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format enclosed as per Annexure - III) applicable for the relevant financial year (latest audited), certifying quantum of investment in plant and machinery within the permissible limit as per the act for relevant status (Micro or small) where the deemed validity of EM II is over. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission. Offer/s received without these documents will lead to consideration of their offer at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier.</p>	
<p>18.</p>	<ul style="list-style-type: none"> ➤ Point to point confirmation for the Technical Specification enclosed to be provided. If there are any deviations, the same should be clearly specified. Offers received without confirmation to our specifications will be liable for rejection. If needed additional sheets shall be used. ➤ Equipment offered shall be "New". Re-built / Re-conditioned / Used equipment's will not be accepted. Incomplete offers will not be considered for further processing Fixed price: ➤ BHEL reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at any of BHEL projects / units. ➤ BHEL shall be at liberty to reject or accept any tender, part or in full, at their own discretion and any such action is not liable for any question or claim against BHEL. ➤ All Equipment's / Services including concerned personnel for carrying out the erection and commissioning of the equipment shall be arranged by the vendor. If any Services are availed from BHEL, it is only on chargeable basis unless otherwise specified. ➤ The vendor shall provide necessary drawings, Test Certificates and Operating Maintenance Manuals etc., as called for in the Technical Specification, in the required number of copies at no extra cost ➤ The Supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit. 	

19. Company Details & Contact	Full Address of the company for future correspondence. (Copy of address proof & PAN card shall be attached along with Part-I)		
	Company Email ID:		Phone No.:
	Fax No		PAN No
	CST /TIN No		Service Tax No.
	Name of the contact person:		Mobile No.:
	e-mail ID		
	20.	TO BE CONFIRMED BY VENDOR	
	Country of origin:		
	Station of dispatch/Port of Shipment		
	Delivery Terms (For destination or Ex-works)		
21. Packing & Forwarding	Charges, if any (in % or Lumpsum) ie. extra from basic rate		
	% of Excise Duty with cess		
	% of TAX (CST/VAT) (TNGST with FORM-17 or CST with C-FORM)		
	(If applicable only)		
	Installation & commissioning charge is inclusive (or) exclusive on basic rate		
	Service tax applicable extra or not		
	Freight & Transit Insurance charges (if any, in Lumpsum (or) percentage) from Dispatching station to BHEL Tiruchirappalli, (Note:If the delivery terms is Ex Works the materials has to be sent through BHEL approved carrier only, in this case the Freight & Insurance will be borne by BHEL)		
22.	Delivery from the date of Letter of Intent / Purchase Order. (This should be inclusive of Order acceptance, drawing approval and time period required for receiving goods at BHEL Trichy.etc.,		
23. Weight & Cubage of package:			
	Approximate Net weight of the total consignment:		
	Approximate Gross weight of the total consignment:		
	Approximate volume of the total consignment:		
For any queries / clarifications the bidders may contact us through our FAX NO. +91 431 2520719 or through e-mail <ssm@bheltry.co.in, dcm@bheltry.co.in>			

NOTE

- a) Your specific acceptance to our Payment terms, LD, Risk Purchase Clause & Submission of PBG for 10% of the order value are essential for consideration of your offer. Otherwise your offer is liable for rejection.
- b) No row shall be left blank. Please indicate NA, in case the item is "not applicable"

Declaration:-

I/We have gone through and understood the 'General guidelines & instructions to bidders for submitting offer' enclosed as a part of the Tender and confirm that our offer has been made in line with the same.

Name: _____ Signature with date: _____ (AFFIX OFFICIAL SEAL HERE)
 Designation: _____
 (PLEASE AFFIX YOUR SIGNATURE WITH SEAL ON EACH PAGE)

MODEL PRICE BID FORMAT FOR INDIAN BIDDERS

Enquiry No. & Date:

Bidder's Offer No. & Date:

Sl No	Description of item	Unit (SET /No)	QTY	Rate /Qty in Rs. (excluding of all taxes)	VAT/CST in % (TNGST with FORM-17 or CST with C-FORM)	ED in %	Service Tax in %	Total Value in Rs. (inclusive of all taxes)
	Supply portion							
	Service portion- if exclusive from basic price (available in scope only)							
	Packing & Forwarding charges (if any) in percentage (or) Lumpsum							
	FOR Dispatching station value in Rs.							
	Percentage of Freight & transit insurance charges, if any (Lumpsum or %) Freight & Insurance charges from Dispatching station to BHEL, Tiruchirappalli (Note:If the delivery terms is Ex Works the materials has to be sent through BHEL approved carrier only, in this case the freight & Insurane will be borne by BHEL)							
	Approximate Net weight of the total consignment							
	Approximate Gross weight of the total consignment							
	Approximate Dimensions of the Consignment							

Signature & Seal of Vendor

The price bid should be submitted only as per the above format. No row shall be left blank. Please indicate NA, in case the item is "not applicable"

Certificate by Chartered Accountant on letter head

This is to Certify that M/S
(hereinafter referred to as 'company') having its registered office at
..... is registered under MSMED Act 2006, (Entrepreneur
Memorandum No (Part-II) dtd:.....,
Category: (Micro/Small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as on
date..... as per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No.S.O.1722(E) dated October 5, 2006 :
Rs.....Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:
Rs.....Lacs

The above investment of Rs.....Lacs is within permissible limit of
Rs.....Lacs forMicro / Small (Strike off which is not applicable)
Category under MSMED Act 2006.

Date:

(Signature)

Name -

Membership number -

Seal of Chartered Accountant

BHARAT HEAVY ELECTRICALS LIMITED TIRUCHIRAPALLI
CAPITAL PURCHASE

Annexure- IV

ACCEPTANCE OF COMMERCIAL TERMS AND CONDITIONS BY THE VENDORS.

(This should be essentially filled in and sent along with the techno-commercial offer without fail. If this check list is not filled and submitted along with techno-commercial offer (Part I) or if the vendor does not confirm acceptance to the terms and conditions proposed, BHEL reserves the right to reject such offer)

CHECK-LIST FOR IMPORT VENDORS

SI No	DESCRIPTION
1.	<p>The Bidders shall submit the offer in TWO INNER ENVELOPES as indicated below which shall be sealed in one outer envelope.</p> <ul style="list-style-type: none"> ❖ Envelope I: This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked "Part I - Technical and commercial bid", indicating Enquiry No., Due Date and Address & Reference of the Bidder. ❖ Envelope II: This sealed envelope should contain price details. This envelope should be clearly marked "Part II - Price bid", indicating Enquiry No., Due Date and Address & Reference of the Bidder. This part should contain the schedule of price particulars and must be co-related to the technical details provided in Part I. <p>All the two envelopes (Part I&II) shall be put in one cover, duly sealed, super scribing as Part I and Part II of Enquiry No., due date of opening and the address and reference of the Bidder. The offer received without the above guidelines, will not be considered for opening</p> <p>The above offer should reach this office on or before the due date by 14.00 Hrs (IST). Late offers will not be considered.</p> <p>1) Please submit your offer on F.O.R - BHEL, Trichy (Tamilnadu) basis and in two part (part-i: techno-commercial bid and part-ii: price bid) in a separate covers and both covers to be placed in an envelope which is super scribed with enquiry no, enquiry date and due date of tender opening.</p> <p>2) If the offer is submitted in single part and the same will be liable for rejection.</p> <p>3) All the Tenders may be addressed to the following address to The Tender Opening Cell/MM Room No-26, Building – 24, Ground Floor Bharat Heavy Electrical Limited Tiruchirappalli- 620014., TAMILNADU, INDIA</p> <p>4) In case personal delivery of the offer, it shall be dropped into the respective box after duly entering the data in the system kept in room no. 26.</p> <p>5) Offers will be accepted received till 14.00 hrs on the due date. Therefore Vendors shall ensure to submit the offers before this time.</p> <p>6) Vendors are requested to avoid submission of offers thro email / fax. In case of any unavoidable situation, offers shall be sent thro email to the following mail ID only "tender_ cell@bheltry.co.in "</p> <p>Tenders should be free from CORRECTION AND ERASURES, Corrections if any, must be attested. All amounts shall be indicated both in words as well as in figures. In case of any difference between amount quoted in words and figures, amount quoted in words shall prevail.</p> <p>Offers should be in ENGLISH and accompanied by detailed technical literature, catalogue and detailed dimensional drawings in ENGLISH or otherwise, the offers will not be considered.</p>
2.	<p><u>OPENING OF TENDERS</u></p> <p>The Part I- Technical & commercial bid would be opened on the Tender opening date. The Part II - Price bid of Technically suitable Bidders alone would be opened. The Technically suitable Bidders would be informed about the tender opening date. Clarifications if any required by BHEL for Technical evaluation would be sought from bidders before opening of Part II - price bid. Date and time of Price Bid (Part-II) opening / RA conducting date shall be intimated to the technically and commercially acceptable bidders only. Clarifications if any required by BHEL for Technical evaluation would be sought from bidders before opening of Part II - Price Bid/ RA</p>

3.	<p>Taxes and Duties All Taxes, Duties etc. as required to be paid in the country of export shall be included in the price quoted by the foreign vendor. All duties (like customs duty etc.) payable in India will be paid by BHEL (however, the same would be loaded to the offer during our evaluation process). For the supplies made from India taxes & duties payable shall be clearly mentioned in the offer, failing which such taxes and duties shall have to be borne by the vendor.</p> <p>Income Tax applicable Any service charges payable towards supervision of E&C, training, performance prove-out etc., will be released after deduction of Income Tax as per Indian Income Tax Act / as per the Govt. of India rules and TDS certificate will be issued by BHEL for such deductions. The TDS certificate will be issued after 3 months from the date of E&C payment.</p>	
4.	<p>Currency of payment: Indian bidders should submit the prices only in Indian Rupees. Foreign vendors should indicate the currency like Euro (€) / US\$ / GBP / JY etc. which should be clearly indicated in the un-priced commercial bid as well as in the price bid.</p> <p>In case the foreign vendor sources some components from India for direct supply to BHEL, the payment for those components shall only be in Indian Rupees</p>	
<p>No row shall be left blank. Please indicate NA, in case the item is “not applicable”</p>		<p>Vendor’s confirmation</p>
5.	<p>Validity: Validity of the offer should be 120 days from the date of tender opening</p>	
6.	<p>Payment terms: Purchase Orders will be released separately for supply and service portion on the successful vendor. Supply Portion: BHEL Payment term is 80% payment on CAD basis after 45 days from the date of receipt of documents, specified in PO, at BHEL bank. Respective bank charges to respective account. Balance 20% will be paid within 45-90 days after Minutes of Meeting for E&C shall be issued on satisfactory completion of erection, commissioning, job proving, performance tests, training to operators etc as envisaged in PO against submission of PBG for 10% of total order value.</p> <p>Erection & Commissioning Portion (if applicable only): 100% of the Erection / commissioning charges (in case contract involves erection/commissioning) shall be paid only on completion of such erection / commissioning at BHEL</p> <p>Any deviation in the above payment term will attract loading as mentioned below. “Base rate of SBI (as applicable on the date of bid opening. Techno-commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders.</p> <ul style="list-style-type: none"> • In the case of Usance LCs the loading will be considered @ 1.5% on the offered Value. • For LC at sight the loading will be considered @ 3.5% on the offered Value. • Normally CAD at sight and Confirmed LCs are liable for rejection. 	
7.	<p>Liquidated damages (LD): The delivery of the goods specified in the purchase order should be made within the prescribed time. LD for delay in ‘Supply’ and/or ‘E&C’ will be applicable to the delays attributed to vendor. LD will be considered separately for ‘Delivery’ and ‘E&C’.</p> <p>The rate of LD for delayed Supply shall be @ 0.5% per week of delay of total PO value in supply subject to a maximum of 10% of total PO value</p> <p>The rate of LD for delayed E&C shall be @ 0.5% per week of delay of total PO value (Supply + E&C) in E&C subject to a maximum of 10% of total PO value (Supply + E&C).</p> <p>For staggered delivery schedule, LD shall be 0.5% of the undelivered portion per week of the delay or part thereof subject to a maximum of 10% of the total order value.</p> <p>Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value).</p> <p>(For the purpose of Imposing LD, the delivery (B/L date) shall be considered.)</p>	

8.	<p>Risk Purchase: Alternatively the purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or despatch within the time stipulated as aforesaid or if the same were not available from the best and the nearest available substitute. The supplier shall be liable for any loss which the Purchaser may sustain by reason of such risk purchases..</p>	
9.	<p>Delivery terms and evaluation process: Terms of Delivery: Bidders are required to quote their best delivery period. Foreign vendors should quote for delivery on CFR/CIF (Chennai Sea Port / Airport as the case may be with detailed price breakup for ocean freight/air freight etc.) or on FOB/FCA basis (as the case may be) based on INCOTERMS 2010, The transfer of title of the goods supplied by the vendor takes place in line with the INCOTERMS 2010</p> <p>The bidder has to quote charges for 'Supply' and 'Erection & Commissioning' separately. The evaluation of tender shall be on the basis of "NET CASH OUTFLOW VALUE (total cost to BHEL). For evaluation, exchange rate (TT selling rate of State Bank of India) as on scheduled date of tender opening (Part - I in case of Two Part Bid) shall be considered. Evaluation of offers shall be on the basis of delivered cost (Net cash outflow to BHEL)</p>	
10.	<p>Performance Bank Guarantee (PBG): The Bidder, in the event of an order, should furnish a bank Guarantee from an Indian Bank approved by BHEL, at no extra cost in a proforma prescribed by BHEL, alongwith the order, for an amount equivalent to 10% (Ten percent) of the value of the contract. The PBG shall be valid for period of 18 months from the date of despatch or 12 months from the date of receipt / acceptance / commissioning of the equipment at BHEL, Tiruchi whichever is more, with a claim period of two months.</p> <p>The Performance Bank Guarantee shall be obtained from any one of the following banks which is a member bank in our consortium of banks. LIST OF CONSORTIUM BANKS 1.DEUTSCHE BANK 2.HDFC BANK 3.ANZ GRINDLAYS BANK 4.CITI BANK 5.STANDARD CHARTERED BANK 6.BANK OF AMERICA 7.ABN AMRO BANK 8.IDBI LTD 9.ICICI BANK LTD 10.THE HONGKONG AND SHANGHAI BANKING .CORPORATION LTD. LIST OF NATIONALISED BANKS 1.ALLAHABAD BANK 2.ANDHRA BANK 3.BANK OF INDIA 4.BANK OF BARODA 5.BANK OF MAHARAstra 6.BHARATH OVERSEAS BANK 7.CANARA BANK 8.CENTRAL BANK OF INDIA 9.CORPORATION BANK 10.DENA BANK 11.INDIAN BANK 12.INDIAN OVERSEAS BANK 13.OREINTAL BANK OF COMMERCE 14.PUNJAB NATIONAL BANK 15.PUNJAB & SIND BANK 16.STATE BANK OF INDIA 17.STATE BANK OF TRAVANCORE 18.STATE BANK OF MYSORE 19.STATE BANK OF BIKANER & JAIPUR 20.STATE BANK OF HYDERABAD 21.STATE BANK OF PATIALA 22.STATE BANK OF MAHARAstra 23.STATE BANK OF SOURAstra(SBI-13.09.08) 24.SYNDICATE BANK 25.UCO BANK 26.UNION BANK OF INDIA 27.UNITED BANK OF INDIA 28.VIJAYA BANK</p> <p>If PBG is issued by a Foreign counter part of the BHEL consortium Indian Bank, in case of claim against the PBG, it will be lodged in any one of the Indian counters of the Foreign Bank which issued the PBG. All bank charges incurred in India and outside India on account of issuance of CEBG and PBG will have to be borne by the foreign vendor. Normally No deviation permitted and the deviated offers are liable for rejection.</p>	
11.	<p>Guarantee: Vendors shall provide a guarantee for a period of 12 months from the date of commissioning of the equipment or 18 months from date of supply, whichever is earlier. The date of B/L or AWB shall be taken as the date of supply. Normally No deviation permitted and the deviated offers are liable for rejection.</p>	
12.	<p>Short shipment / Warranty replacement: In case, any shortage is noticed vis-a-vis PO requirement in the main equipment / spares, such shortages shall be replenished by supplier on DDP - Incoterms 2010 basis without any cost implication to BHEL i.e. Custom Duty and freight charges etc. up to destination for such short supplies shall be borne by the supplier. Warranty Replacements during Guarantee period at supplier's cost on DDP - Incoterms 2010 basis.</p>	

13.	<p>Inspection & Testing: All goods shall be subject to inspection by BHEL or its authorized representatives at supplier's works or at BHEL stores or at any other place in India indicated by BHEL as the case may be. The supplier will not charge for the facilities provided for inspection of goods. In case of machine tools, the machine would be inspected and proved at supplier's works prior to dispatch however, final inspection and acceptance of the machine will be carried after installation of the machine at BHEL, Tiruchirappalli.</p>	
14.	<p>Test certificates / Operating and Maintenance manuals : The Bidders shall clearly mention in their offer, that Test Certificates and Operating Maintenance Manuals, etc., as called for in the Technical Specification, in the required number of copies will be provided at no extra cost</p>	
15.	<p>BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.</p>	
16.	<ul style="list-style-type: none"> ➤ Prices shall be quoted item wise only as per the model format enclosed. An unpriced copy shall be submitted along with technical bid where in the applicable Taxes and Duties Shall be clearly specified ➤ Equipment offered shall be "New". Re-built / Re-conditioned / Used equipments will not be accepted. Incomplete offers will not be considered for further processing Fixed price: ➤ Prices quoted by the bidder shall be fixed and not subject to any escalation whatsoever during the period of bid validity and execution of the Purchase Order. A bid submitted with an adjustable price will be treated as non - responsive and rejected. Prices shall be written in words and figures. In the event of difference, the price in words shall be valid and binding. Unit prices shall be considered correct in the event of any discrepancy with regard to total price. ➤ The Supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit. 	
	<ul style="list-style-type: none"> ➤ BHEL reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at any of BHEL projects / units. ➤ BHEL shall be at liberty to reject or accept any tender, part or in full, at their own discretion and any such action is not liable for any question or claim against BHEL. ➤ All Equipments / Services including concern Personal for carrying out the erection and commissioning of the Equipment shall be arranged by the vendor. If any Services is availed from BHEL, it is only on chargeable basis unless otherwise specified. ➤ The vendor shall provide necessary drawings, Test Certificates and Operating Maintenance Manuals etc., as called for in the Technical Specification, in the required number of copies at no extra cost 	
17	<p>Reverse Auction (RA): BHEL reserves the right to conduct on-line internet Reverse Auction ie. ONLINE BIDDING (THROUGH A SERVICE PROVIDER) for finalizing the Tender. This decision will be communicated to the technically qualified vendors after technical evaluation. Details / General terms / guidelines for conduct of RA are shown below Vendors are requested to confirm their acceptance for BHEL proceeding with RA route for finalization of the enquiry.</p> <ul style="list-style-type: none"> ○ For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate. ○ BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet. ○ BHEL will inform the vendor in writing in case of reverse auction, the details of Service Provider to enable them to contact & get trained. ○ Business rules like event date, time, start price, bid decrement, extensions etc. also will be communicated through service provider for compliance. ○ Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to participate in the event. ○ BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction ○ Reverse auction will be conducted on scheduled date & time. ○ At the end of Reverse Auction event, the lowest bidder value will be known on the network. 	

	<ul style="list-style-type: none">○ The lowest bidder has to Fax/e-mail the duly signed Filled-in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail.○ Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure.○ In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price Bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL's standard practice.○ BHEL reserves the right to negotiate if need be, with the "L1" vendor of the Reverse Auction○ <u>BHEL reserves the right not to consider offers from vendors not complying with the RA process for finalization of the enquiry.</u>○ If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted. <p>➤ In case BHEL decides to go for reverse auction, the H1 bidder(s) (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.</p>	
--	--	--

18	Company Details & Contact	
	Full Address of the company:	
	Company Email ID:	
	Phone No.:	
	Name of the contact person:	
	Mobile No.:	
	e-mail ID	
19	TO BE CONFIRMED BY VENDOR	
	Country of origin:	
	Station of dispatch/Port Of Shipment	
	Delivery Terms (For destination/Ex-works or CIF/CFR/FCA/FOB as per clause 9)	
20	Price break-up details like FOB price, ocean freight/air freight etc., should be indicated in the offer. The transfer of title of the goods supplied by the vendor takes place in line with INCOTERMS 2010.	
21	Delivery from the date of Letter of Intent / Purchase Order. (This should be inclusive of Order acceptance, drawing approval and time period required for dispatch (B/L or AWB date) etc.,	
	Period for completion of the Retrofitting / Reconditioning (erection & Commissioning) work at BHEL shall be clearly specified in the offer (if available in enquiry scope only)	
22	Weight & Cubage of package: Approximate Net weight of the total consignment: Approximate Gross weight of the total consignment: Approximate volume of the total consignment:	
For any queries / clarifications the bidders may contact us through our FAX NO. +91 431 2520719 or through e-mail < ssm@bheltry.co.in , dcm@bheltry.co.in >		

NOTE:-

- a) Your specific acceptance to our Payment terms, LD, Risk Purchase Clause and 10% PBG are essential for consideration of your offer. Otherwise your offer is liable for rejection.
- b) No row shall be left blank. Please indicate NA, in case the item is “not applicable”

Declaration:-

We have gone through and understood the ‘General guidelines & instructions to bidders for submitting offer’ enclosed as a part of the Tender and confirm that our offer has been made in line with the same.

(AFFIX OFFICIAL SEAL HERE)

Signature with date:

Name:

Designation:

Department:

(PLEASE AFFIX YOUR SIGNATURE WITH SEAL ON EACH PAGE)

MODEL PRICE BID FORMAT FOR FOREIGN BIDDERS

Enquiry No. & Date:

Bidder's Offer No. & Date:

Sl No.	Description of item	Unit	Quantity	Rate in Currency	Value in Currency
	The price indicated shall be inclusive of all accessories, spares etc. as given in the scope of supply. Individual item-wise break-up price shall be attached as an annexure to this price bid format.				
	Ex-Works value.				
	Type of Incoterms (CIF / CFR / FCA / FOB)				
	Packing & Forwarding charges, if Extra				
	Approximate Freight Charges (Freight charges to Chennai Port)				
	Approximate Transit Insurance Charges in Currency				
	Chennai Airport/ Seaport Value in Currency				
	Erection & Commissioning charge in currency				
	Service tax for E&C				
	Approximate Net weight of the total consignment				
	Approximate Gross weight of the total consignment				
	Dimensions of the Consignment				

Signature & Seal of Vendor

The price bid should be submitted only as per the above format. No row shall be left blank. Please indicate NA, in case the item is "not applicable"