



# 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:

429-002/A

	<b>Enquiry No</b> 2681500013 - 79	<b>Enquiry Date</b> 04.11.2015	<b>Due Date for Quotation</b> 03.12.2015
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order. <b>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 &amp; Enq. Due date must be written on all three covers.</b>			

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	HEATERLESS LPG VAPOURISER-1000KG/HR Design, Supply, Installation and Commissioning of Heaterless/Ambient Waterbath type LPG Vapouriser Unit of 1000 Kg/Hr Capacity as per the Qualifying Criteria in PART-A AND Specification and Scope of work as per PART-B.	SET	1.000	1.00	30.03.16
20	MASS FLOW METER Supply, Installation and Commissioning of Mass Flow Meter at the outlet of Heaterless/Ambient Waterbath type LPG Vapouriser Unit of 1000 Kg/Hr Capacity said in Item 10 as per Specification and Scope of work in PART-C. Note: Item 10 and 20 are inter-related components of the Vapouriser system and hence it is to be procured from a single source. Payment Terms for item 10 and 20: a)80 % of payment will be released against receipt,acceptance of materials and installation. b)20% of payment will be released after completion of successful commissioning (For a proveout period of 3 days) against submission of 10% PBG for a Warantee period of 18 months.	NO	1.000	1.00	30.03.16

### General Note:

1. Please submit your detailed offer in two part bid system i.e Part-I. Technical bid+ Checklist (Annexure-A) + unpriced bid with indicating taxes & duties (Annexure-B) in a sealed cover super scribing on the cover as "TECHNICAL & COMMERCIAL BID / PART-II"  
Part-II. Priced offer in another separate sealed cover super scribing on the cover as Part-II

Both the covers shall be duly super-scribed with tender reference and due date of opening. These covers shall be put in a single cover duly super-scribed with tender reference and due date of opening and addressed to us.

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.

**VIGILANCE AWARENESS WEEK**  
**26 th OCT to 31st OCT 2015**  
**FOR VIGILANCE RELATED COMPLAINTS,**  
**CONTACT DGM/VIGILANCE & SM/VIGILANCE**  
**PHONE:0431-2577552,2577636**

Yours faithfully,  
For BHARAT HEAVY ELECTRICALS LIMITED

MANAGER / PURCHASE  
(FOSSIL BOILERS)  
**M. ABRAHAM VICTOR**  
Senior Manager  
Yours faithfully,  
Purchase

BHEL, THIRUCHIRAPALLI, TAMILNADU, INDIA



# BHARAT HEAVY ELECTRICALS LIMITED

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THIRUCHIRAPALLI - 620014  
TAMILNADU (INDIA)

Page  
2/3

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

2681500013 / 04.11.2015

23505

2. Point-to-point confirmation to BHEL's specification and commercial terms & conditions shall be provided Annexure-A. All the Annexures should be filled and submitted along with the technical bid (no row shall be left blank), else your offer is liable for rejection.
3. Offers with validity of less than 120 days and non-acceptance of LD , RP clause, PBG & Payment terms, will lead to rejection of submitted offer.
4. If the due date of tender opening happens to be a holiday, the tenders will be opened on the next working day.
5. All clarifications may be sought at least ten days prior to tender due date, from the undersigned with due written request.
6. 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 commercial terms and conditions (Annexure-A/Point no.17)
7. Corrigendum if any, with respect to this tender will be hosted only in the website <http://www.bhel.com> or <http://tenders.gov.in>. You are requested to visit the website regularly for updates.
8. BHEL will consider MSME vendor as per Government guidelines.
9. Vendors are requested to avoid the following points while submitting the Bid Documents:
  - a) Loose or spiral bound bid documents are not encouraged.
  - b) In case of any corrections/overwriting in the tender documents, the same shall be duly attested by the bid submitter.
10. Vendors representative having proper ID proof and authorization letter shall attend the tender opening.

#### List of Attachments:

1. Qualifying Criteria PAR-A
2. Technical Specification PART-B & Part-C
3. Commercial Terms and Conditions - Annexure-A
4. Price Format-Annexure-B
5. CA Certificate for MSE Vendors-Annexure-III

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.

**VIGILANCE AWARENESS WEEK**

**26 th OCT to 31st OCT 2015**

**FOR VIGILANCE RELATED COMPLAINTS,**

**CONTACT DGM/VIGILANCE & SM/VIGILANCE**

**PHONE:0431-2577552,2577636**

Yours faithfully,  
For BHARAT HEAVY ELECTRICALS LIMITED

  
MANAGER / PURCHASE  
FOSSIL BOILERS  
Yours faithfully,  
Purchase / MM / MFG  
BHEL TRICHY - 620014



# 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:

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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 bidder along with its associate/ collaborators/ sub-contractors/ sub-vendors/ consultants/ service providers shall strictly adhere to BHEL fraud prevention policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice.

**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.

**VIGILANCE AWARENESS WEEK**  
**26 th OCT to 31st OCT 2015**  
**FOR VIGILANCE RELATED COMPLAINTS,**  
**CONTACT DGM/VIGILANCE & SM/VIGILANCE**  
**PHONE:0431-2577552,2577636**

Yours faithfully,  
For BHARAT HEAVY ELECTRICALS LIMITED

**P.G. ABRAHAM VICTOR**  
Senior Manager  
Purchase (Fossil Boilers)  
TIRUCHIRAPALLI 620014  
faithfully,  
BHEL TRICHY

<b>M&amp;S/Gas Services</b>		
<b>PART-A</b>		
<b>Design, Supply, Installation and Commissioning of Heaterless/Ambient Waterbath type LPG Vapouriser Unit of 1000 Kg/Hr Capacity</b>		
<b>QUALIFICATION CRITERIA</b>		
<b>S.No</b>	<b>Description</b>	<b>Vendor to specify details</b>
1	Only those vendors, who have experience and carried out the following activities and submitting the requested documents are eligible to participate in the tender and further evaluation.If not meeting the qualifying criteria,the tender is liable for rejection:	
1.1	Vendors who have Supplied and commissioned Heaterless/Ambient water bath type LPG Vapouriser of capacity 500 Kg/Hr or above for atleast to one company in the past seven years for which required purchase order copy is to be submitted along with the offer.	
1.2	The vendor should submit performance certificate from minimum one customer for the satisfactory performance of the Heaterless type LPG Vapouriser that is supplied for Purchase order submitted for the above SI.No.1.1 in the customer's letter head.	
1.3	The vendor shall be CCOE approved product manufacturer of Heaterless/Ambient water bath type LPG Vapouriser or Authorised dealer/supplier of the CCOE approved product manufacturer of Heaterless/Ambient water bath type LPG Vapouriser.  For the above,a copy of CCOE Product approval document for Heaterless/Ambient water bath type LPG Vapouriser is to be furnished.	
1.4	The Authorized supplier/dealer of the manufacturer shall submit valid authorization letter/dealership certificate as applicable along with the offer.	
2	The vendor should submit the following details.	
2.1	Name and postal address of the customer / company where similar equipment was supplied and commissioned.	
2.2	Name and designation of the contact person of the customer.	
2.3	Phone Number and Email address of the contact person of the customer.	
3	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.	

# TECHNICAL SPECIFICATION FOR HEATERLESS/AMBIENT WATERBATH TYPE LPG VAPOURISER-1 x 1000 Kg/Hr CAPACITY

## PART-B

Design, Supply, Installation and Commissioning of Heaterless/Ambient Waterbath type LPG Vapouriser Unit of 1 x 1000 Kg/Hr Capacity in BHEL Trichy-14 as per detailed BoQ and specifications below:

Sl. No	Description	Qty	Vendor to confirm	Remarks
<b>A. Brief Description of the System:</b>				
1	Capacity of LPG Vapouriser	1000 Kg/Hr		
2	Type of LPG Vapouriser	Heaterless/Ambient Waterbath type LPG Vapouriser(i.e Vapouriser without electrical heaters)		
3	Purpose	For LPG Vaporisation		
4	Product Design approved by	CCOE		
5	LPG vapour outlet condition from Vapouriser	The LPG vapour pressure at the outlet of the vapouriser should be minimum 1.2 Kg/cm <sup>2</sup> and the delivered LPG vapour is to be free from liquid/residue carryover.		
6	Application	The delivered LPG vapour is to be used as fuel for the heat treatment furnaces.		
7	<b>Pressure requirement of the Heaterless LPG Vapouriser system</b>			
7.1	Working Pressure	10 Kg/cm <sup>2</sup> (max.)		
7.2	Hydrotest pressure	26 Kg/cm <sup>2</sup>		
7.3	Pneumatic test pressure	17 Kg/cm <sup>2</sup>		

# TECHNICAL SPECIFICATION FOR HEATERLESS/AMBIENT WATERBATH TYPE LPG VAPOURISER-1 x 1000 Kg/Hr CAPACITY

## PART-B

<b>B. Supplier's Scope:</b>				
The 1000 Kg/Hr capacity Heaterless LPG Vapouriser system should be supplied as a package consisting necessary isolation valves for LPG and Water lines, piping with flanges, strainer,solenoid valves, flash valves, non return valves, shell and tube heat exchanger, residue/heavy hydro carbon trap,presure regulators,safety releif valve,presure and temperature gauges with its isolation valves and required interlock systems for LPG and water, required electrical, instrumentation and control system as described below.				
1	<b>The inlet system of the 1 x 1000 Kg/Hr capacity Heaterless LPG Vapouriser system shall consist of manual isolation ball valve,strainer,solenoid valve,flashing valve,non return valve and finally a manual isolation ball valve as per details given below.</b>		2 Sets (1 working +1 standby)	
1.1	<b>Manual isolation ball valves</b>		4 Nos	
1.1.1	Design and Manufacturing Standard	To be specified		
1.1.2	Fire safe valves	The valves to be of Fire safe design		
1.1.3	Type of operation	Hand lever operated		
1.1.4	Size	To be specified		
1.2	<b>Strainer</b>		2 Nos	
1.2.1	Particulate retention size	100 microns		
1.2.2	Size	To be specified		
1.3	<b>Solenoid valves</b>		2 Nos	
1.3.1	Type	Flameproof type		
1.3.2	Material of rubber components	Viton rubber or any other higher grade rubber material		
1.3.3	Type of actuation	Electrical actuation		
1.3.4	Size	To be specified		
1.4	<b>Flashing Valves for LPG vapourisation</b>		2 Nos	

# TECHNICAL SPECIFICATION FOR HEATERLESS/AMBIENT WATERBATH TYPE LPG VAPOURISER-1 x 1000 Kg/Hr CAPACITY

## PART-B

1.4.1	Size	To be specified	2 Nos		
1.5	<b>Non return valves</b>		2 Nos		
1.5.1	Size	To be specified			
2	<b>Shell and tube type Heat Exchanger</b>		1 Set		
2.1	Shell side	Raw Water			
2.2	Tube side	LPG			
2.3	Material of construction of Shell	Stainless steel			
2.4	Material of construction of Tube	Stainless steel			
2.5	Tube type	Seamless type			
2.6	Thickness of tube	Minimum Schedule 40			
2.7	Diameter and height of heat exchanger	To be specified			
2.8	Manual isolation ball valves each for water inlet and outlet line of the heat exchanger		2 Nos		
2.8.1	Design and Manufacturing Standard	To be specified			
2.8.2	Type of operation	Hand lever operated			
2.8.3	Size	To be specified			
2.8.4	Class Rating	150 Class			
2.9	Drain valve for Heat Exchanger		1 No		
2.9.1	Design and Manufacturing Standard	To be specified			
2.9.2	Type of operation	Hand lever operated			
2.9.3	Size	To be specified			
2.9.4	Class Rating	150 Class			
3	<b>The outlet system of the 1 x 1000 Kg/Hr capacity Heaterless LPG vapouriser shall consist of manual isolation ball valve,solenoid valve,presure regulator and finally a manual isolation ball valve as per details given below.</b>		2 Sets (1 working +1 standby)		
3.1	<b>Manual isolation ball valves</b>				

## TECHNICAL SPECIFICATION FOR HEATERLESS/AMBIENT WATERBATH TYPE LPG VAPOURISER-1 x 1000 Kg/Hr CAPACITY

### PART-B

3.1.1	Design and Manufacturing Standard	To be specified	4 Nos		
3.1.2	Fire safe valves	The valves to be of Fire safe design			
3.1.3	Type of operation	Hand lever operated			
3.1.4	Size	To be specified			
3.2	<b>Solenoid valves</b>		2 Nos		
3.2.1	Type	Flameproof type			
3.2.2	Material of rubber components	Viton rubber or any other higher grade rubber material			
3.2.3	Type of actuation	Electrical actuation			
3.2.4	Size	To be specified			
3.3	<b>Pressure Regulating Valves</b>		2 Nos		
3.3.1	Make	To be specified			
3.3.2	Size	To be specified			
4	Residue/Heavy hydrocarbon trap for removal of carryover liquids is to be provided along with the drain valve.		1 set		
4.1	Suitable interlock shall be provided for residue trap to shut off the supply of LPG when liquid residue reaches the set upper limit.		1 set		
5	Safety relief valve at the delivery line is to be provided.		1 No		
6	Manual isolation ball valve at the exit of the system is to be provided.		1 No		
6.1	Design and Manufacturing Standard	To be specified			
6.2	Fire safe valves	The valves to be of Fire safe design			
6.3	Type of operation	Hand lever operated			
6.4	Size	To be specified			
	<b>Note:</b> i) All valves, strainer used in the LPG piping system of the Heaterless LPG Vapouriser shall be of 300 Class and suitable for LPG application.				

## TECHNICAL SPECIFICATION FOR HEATERLESS/AMBIENT WATERBATH TYPE LPG VAPOURISER-1 x 1000 Kg/Hr CAPACITY

### PART-B

7	Required interconnecting piping and fittings in the Heaterless LPG Vapouriser system shall be of Seamless type and minimum Schedule 40 thickness.	1 Lot		
8	Required flanges in the Heaterless LPG Vapouriser system shall be of 300 Class and to be of SA 105 material. All flange joints shall be provided with metallic gaskets and with earthing jumpers.	1 Lot		
9	Drain valves and safety relief valves at required points are to be provided in the Heaterless LPG Vapouriser system as per system requirement.	1 Lot		
10	<b>Electrical control panel, instrumentation and electric cabling of the Heaterless LPG Vapouriser system</b>			
10.1	<p>a)Required electrical and instrumentation components like control panel with multifunction energy meter, junction boxes, solenoid valves, pressure switches for LPG line,water line and any other instruments if required for the system shall be provided and the same are to be Flame Proof confirming to Standard IS 2148(Latest Revision) or its equivalent.The Flame Proof enclosures shall of CMRI approved.</p> <p>b)The electrical cables required for the system shall be of armoured cable type and to be routed suitably in metallic cable tray.</p> <p>c)Required safety interlocks for shut off of LPG supply,water supply and for shut off of LPG at high liquid level in the residue trap are to be provided in the system.</p>	1 Lot		

## TECHNICAL SPECIFICATION FOR HEATERLESS/AMBIENT WATERBATH TYPE LPG VAPOURISER-1 x 1000 Kg/Hr CAPACITY

### PART-B

10.2	<p><u>Earthing:</u></p> <p>a)All equipments shall be double earthed and earthing system shall be as per relevant IS standard for all equipments/electrical gadgets.</p> <p>b)Colour coding to be as per relevant IS Standard.Within the system,all earthing is to be insulated.</p> <p>c)Earthing the system upto Earthing pit(2 Nos.) and the earth pits is in the scope of supplier and the earthing pits is to be of chemical type(maintenance free type) for which the required materials and work are in the scope of supplier.</p>	1 Lot		
11	Required Pressure gauges for LPG & water line, temperature gauges for water inlet and outlet line and LPG line, pressure switches shall be provided with the Heaterless LPG Vapouriser system and the same is to be provided along with a isolation valves.	1 Lot		
12	Any other components required for the successful completion of the Heaterless LPG Vapouriser system project is to be specified in the offer and the same to be supplied.	1 Lot		
13	GA drawing and P&ID of the total system with complete Bill of Materials (itemwise) with Make is to be attached along with offer.			
14	Installation and commissioning of the Heaterless LPG Vapouriser system is in the scope of the supplier and the fastners,tools ,manpower etc required for the same are to be arranged by the supplier.	1 AU		

# TECHNICAL SPECIFICATION FOR HEATERLESS/AMBIENT WATERBATH TYPE LPG VAPOURISER-1 x 1000 Kg/Hr CAPACITY

## PART-B

15	Required CCOE approval(including necessary fees) for installation of the Heaterless LPG Vapouriser system and for usage of the Heaterless LPG Vapouriser system after installation in the LPG yard of BHEL,Trichy and any other statutory approvals(including necessary fees) if required for the installation and usage of Heaterless LPG Vapouriser system is in the scope of supplier.	1 AU		
16	<u>Important Note:</u> Vendor shall compulsarily visit BHEL,Trichy to assess the site requirement of the LPG Yard before submission of the offer.			
1	Civil works if required will be done by BHEL. If civil works are required, the necessary civil inputs are to be submitted by the supplier.			
2	Welding machine with holders,Gas cutting set with hoses ,Welding electrodes,Cutting gases and Crane facility if required for installation and commissioning will be given by BHEL.			
3	Required AC power supply will be provided by BHEL at one point and the power requirement for the Heaterless LPG Vapouriser system is to be specified by the supplier .			
4	Raw Water required for the Heaterless LPG Vapouriser system will be provided by BHEL at one point and the requirement quantity of the same is to be specified in the offer.			
5	Interconnecting the existing LPG line and water line at the LPG Yard/BHEL,Trichy to the installed Heaterless LPG Vapouriser system is in the scope of BHEL.			

# TECHNICAL SPECIFICATION FOR HEATERLESS/AMBIENT WATERBATH TYPE LPG VAPOURISER-1 x 1000 Kg/Hr CAPACITY

## PART-B

<b>D. Others:</b>				
1	<b>Pre-Despatch Inspection:</b>			
	Pre-despatch Inspection will be done by BHEL Engineer at supplier's work before despatch.			
2	<b>Warranty:</b>			
	The Heaterless LPG Vapouriser System shall be warranted for a period of 18 months from the date of Commissioning or 24 months from the date of supply whichever is earlier.			
3	<b>Delivery :</b>			
	Preferrable delivery period for supply to be 3 months from the date of purchase order.			
4	<b>Payment Terms:</b>			
	a)80 % of payment will be released against receipt,acceptance of materials and installation of Heaterless LPG Vapouriser system at BHEL,Trichy.			
	b)20% of payment will be released after completion of successful commissioning of the Heaterless LPG vapouriser system(For a proveout period of 3 days) against submission of 10% PBG for a Warantee period of 18 months.			
5	<b>Notes:</b>			
	a. Operation,Maintenance and Safety Manuals,GA drawing ,Catalogue for bought out items, Inspection reports,test certificates,calibration certificates ,electrical and instrumentation documents etc are to be submitted in Hard copies(3 sets) & Soft copy in CD form(1 set) after commissioning of the system.			
	b. Training shall be provided for the BHEL Trichy staff for the operation and maintenance of the Heaterless LPG Vapouriser system after commissioning of the system.			

**PART-C**

**Supply, Installation and Commissioning of Mass Flow Meter at the outlet of Heaterless/Ambient Waterbath type LPG Vapouriser Unit of 1000 Kg/Hr Capacity in BHEL Trichy-14 as per specifications below:**

Sl. No	Description	Qty	Vendor to confirm	Remarks
<b>A. Description of the Flow Meter:</b>				
1	Type of Flow Meter	1 Set		
2	Measurable Flow range			
3	Medium			
4	Location to be installed			
5	Unit of Flow rate			
6	Material of construction			
7	Pressure			
8	Temperature			
9	Mounting			
10	Diameter of flow meter to be installed			
11	Indication			
12	Indicator Type			
13	Programmable Keypad			
14	Power Supply			
15	Wattage			

**PART-C**

**Supply, Installation and Commissioning of Mass Flow Meter at the outlet of Heaterless/Ambient Waterbath type LPG Vapouriser Unit of 1000 Kg/Hr Capacity in BHEL Trichy-14 as per specifications below:**

Sl. No	Description		Qty	Vendor to confirm	Remarks
16	Memory	Memory shall be Non Volatile RAM for retaining data of last totalizer reading after failure till power regains.			
17	Make of Flowmeter	Vendor to specify			
18	Accuracy	a)The accuracy of the flow meter should be better than $\pm 1$ % of the measured value.  b)Accuracy of the flow meter must be independent of fluid parameters like pressure, temperature, density and viscosity			
19	Repeatability	The repeatability of this Flow meter must be $\pm 0.35\%$ of the reading			
20	Over range Protection	Flow meters should not damaged by over range			
21	Installation & Commissioning	Installation and Commissioning of the Flow meter shall be done by the supplier along with the commissioning of the Heaterless LPG Vapouriser system.	1 AU		
22	All technical specifications,data sheet, drawings and product catalogue is to be submitted with offer				

**PART-C**

**Supply, Installation and Commissioning of Mass Flow Meter at the outlet of Heaterless/Ambient Waterbath type LPG Vapouriser Unit of 1000 Kg/Hr Capacity in BHEL Trichy-14 as per specifications below:**

Sl. No	Description	Qty	Vendor to confirm	Remarks
<b>B. BHEL Scope:</b>				
1	Required AC power supply will be provided by BHEL.			
<b>C. Others:</b>				
1	<b>Pre-Despatch Inspection:</b> Pre-despatch Inspection will be done by BHEL Engineer at supplier's work before despatch.			
2	<b>Warranty:</b> The Flowmeter shall be warranted for a period of 18 months from the date of Commissioning or 24 months from the date of supply whichever is earlier.			
3	<b>Delivery :</b> Preferrable delivery period for supply to be 3 months from the date of purchase order.			
4	<b>Payment Terms:</b> a)80 % of payment will be released against receipt,acceptance of material and installation of the Flow meter along with Heaterless LPG vapouriser system at BHEL,Trichy. b)20% of payment will be released after completion of successful commissioning of the Flow meter along with Heaterless LPG vapouriser system(For a proveout period of 3 days) against submission of 10% PBG for a Warantee period of 18 months.			
5	<b>Notes:</b> a. Manuals,GA drawing ,Catalogue, Inspection reports,test certificates, calibration certificates, electrical and instrumentation documents etc are to be submitted in Hard copies(3 sets) & Soft copy in CD form(1 set) after commissioning of the system.			

**BHARAT HEAVY ELECTRICALS LIMITED TIRUCHIRAPALLI**  
**CAPITAL PURCHASE**

Annexure-A

**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 VENDORS**

SI No	DESCRIPTION
1.	<p>The Bidders shall submit their offer in <b>TWO INNER ENVELOPES</b> as indicated below which shall be sealed in one outer envelope.</p> <ul style="list-style-type: none"> <li>❖ <b>Envelope I:</b> This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked "<b>Part I - Technical and commercial bid</b>", indicating Enquiry No., Due Date and Address &amp; Reference of the Bidder.</li> <li>❖ <b>Envelope II:</b> This sealed envelope should contain <b>price details</b>. This envelope should be clearly marked "<b>Part II - Price bid</b>", indicating Enquiry No., Due Date and Address &amp; 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.</li> </ul> <p>All the two envelopes (Part I&amp;II) shall be put in one cover, duly sealed, super scribing as "<b>Part I and Part II of Enquiry No., due date of opening</b>" and the address and reference of the Bidder. The offer received without the above guidelines, will not be considered for opening.</p> <p>Offers will be accepted &amp; received till 14.00 hrs on the due date. Therefore Vendors shall ensure to submit the offers before this time. Late offers will not be considered.</p> <p>The Tenders should be addressed to the following address to</p> <p align="center"><b>The Tender Opening Cell/MM  Room No-26 , Building – 24 , Ground Floor  Bharat Heavy Electrical Limited  Tiruchirapalli- 620014 .</b></p> <p>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>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 "<b>tender_cell@bheltry.co.in</b> "</p> <p>As such Tenders are being opened by Common Tender opening Cell , offer covers should be sealed with tender's distinctive seal and super scribed with correct Tender NO, item of supply and due date of Opening</p> <p>Tenders should be free from <b>CORRECTIONS AND ERASURES</b>. 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 <b>ENGLISH</b> and accompanied by detailed technical literature, catalogue and detailed dimensional drawings in <b>ENGLISH</b> or otherwise, the offers will not be considered.</p>
2.	<p><b><u>OPENING OF TENDERS</u></b></p> <p>The Part I- Technical &amp; 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 <b>(Point no.17)</b>.</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><b><u>TAXES AND DUTIES :</u></b></p> <p>All Taxes and Duties payable as extra to the quoted price should be specifically stated in offers along with CST &amp; 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 &amp; BHEL ECC No. AAACB4146PXM012, Service Tax Reg No (STC)- AAACB4146PST006. Assessment circle Tiruverambur.</p> <p><b>Cenvat credit &amp; VAT credit</b> (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 <b>CENVAT</b> credit for his input materials, the effect of proforma credit should be passed on to the purchaser</p> <p><b>Income Tax applicable</b></p> <p>Any service charges payable towards supervision of E&amp;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&amp;C charges will be payable extra. The liability of depositing the same to the Govt. will be of the supplier</p>

<b>No row shall be left blank. Please indicate NA, in case the item is “not applicable”</b>		<b>Vendor's confirmation</b>
4.	<b>Validity: Validity of the offer should be 120 days from the date of tender opening.</b>	
5.	<b>Release of Purchase Order:</b> ➤ Orders will be placed cumulative L1 vendor for all the items. ➤ Separate orders for supply and service will be released on the successful L1 vendor for each line items. ( service order released only in the case of, Installation / erection / commissioning portion are applicable on tender scope and quoted separate charge for the same by vendor)	
6.	<b>Payment terms for Supply Portion</b> a)80 % of payment will be released within 45-90days against receipt,acceptance of material and installation of the Flow meter along with Heaterless LPG vapouriser system at BHEL,Trichy. b)20% of payment will be released after completion of successful commissioning of the Flow meter along with Heaterless LPG vapouriser system(For a proveout period of 3 days) against submission of 10% PBG for a Warantee period of 18 months.	
	<b>Installation &amp; Commissioning Portion (if applicable only):</b> 100% of the installation / commissioning charges (in case contract involves erection/Installation /commissioning) shall be paid only on completion of such erection / commissioning at BHEL	
	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.	
7.	<b>Performance Bank Guarantee (PBG):</b> 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 <b>10% (Ten percent)</b> of the value of the contract. The PBG shall be valid for a period of 18 months from the date of acceptance / commissioning of the equipment at BHEL, Tiruchi, with a claim period of two months. The Performance Bank Guarantee shall be obtained from any one of the following banks which is a member bank in our consortium of banks. <b>LIST OF CONSORTIUM BANKS</b> 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. <b>LIST OF NATIONALISED BANKS</b> 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 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.	
8.	<b>Liquidated damages (LD):</b> The delivery of the goods specified in the purchase order should be made within the time prescribed. 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’. 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. Detail of LD mode are shown below <b>Single Delivery Date (Material Dispatched after Due date)</b> Once the delivery due date is crossed, bills have to be clubbed till final despatch and forwarded for processing of payment as a single bunch. LD percentage will be calculated from Delivery due date to final despatch date. (100% Order should be completed for processing the bill) <b>Staggered Delivery</b> -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. PO Pending value (each Bill Value) upto Max 10 % of <b>Total PO</b> value) <b>Installation/Erection &amp; Commissioning:</b> 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). 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).For the purpose of Imposing LD, the FOB delivery (B/L date) shall be considered. Bidder should indicate the LD mode (single delivery or staggered delivery) on the confirmation column, otherwise single delivery date will be considered for further evaluation.	
9.	<b>Risk Purchase:</b> 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.	
10.	<b>Delivery terms and evaluation process:</b> Indian Bidders should submit their offer on <b>FOR BHEL, Tiruchy</b> basis. Packing & Forwarding and Freight & Insurance charges from works to BHEL, Tiruchy to be indicated separately if extra from basic rate. Applicable % of ED & Sales Tax Commissioning Charges should be clearly indicated. <b>Evaluation of offers shall be on the basis of delivered cost (Net cash outflow to BHEL)</b>	

11.	<p><b>Guarantee:</b> 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>	
12.	<p><b>Short shipment / Warranty replacement:</b> 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 warranty period shall be on FOR, BHEL, Tiruchirappalli, basis.</p>	
13.	<p><b>Inspection &amp; Testing:</b> 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><b>Test certificates / Operating and Maintenance manuals:</b> 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>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>	
16.	<p><b>BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.</b></p>	
17.	<p><b>Reverse Auction (RA):</b> 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"> <li>1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.</li> <li>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.</li> <li>3. BHEL will inform the vendor in writing in case of reverse auction, the details of Service Provider to enable them to contact &amp; get trained.</li> <li>4. Business rules like event date, time, start price, bid decrement, extensions etc. also will be communicated through service provider for compliance.</li> <li>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.</li> <li>6. BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Packing &amp; forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms &amp; conditions) for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction</li> <li>7. Reverse auction will be conducted on scheduled date &amp; time.</li> <li>8. At the end of Reverse Auction event, the lowest bidder value will be known on the network.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>12. BHEL reserves the right to negotiate if need be, with the "L1" vendor of the Reverse Auction</li> <li>13. <u>BHEL reserves the right not to consider offers from vendors not complying with the RA process for finalization of the enquiry.</u></li> <li>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.</li> </ol> <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.	<p><b>ARBITRATION</b> All disputes or differences whatsoever which may arise at any time during execution of the Contract shall be mutually settled by BHEL and Contractor as per provision of the Contract. However, in the event such disputes cannot be settled mutually, such disputes shall be settled as per the Arbitration and reconciliation Act, 1996 of the Govt. of India and its subsequent amendments. In case of disputes with the Central PSUs, the same shall be settled at Tiruchirappalli as per the Guidelines of the Govt. of India. However, during the period such disputes are settled either by mutual discussions between the parties or by legal means, Contractor shall continue to do the work as per terms &amp; conditions of Contract.</p>	
19.	<p><b><u>Special Provisions for Micro and Small Enterprises (MSE)</u></b> 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>	

<b>20.</b>	<ul style="list-style-type: none"> <li>➤ 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.</li> <li>➤ 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:</li> <li>➤ 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.</li> <li>➤ 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.</li> <li>➤ 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.</li> <li>➤ 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</li> <li>➤ The Supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit.</li> </ul>	
<b>21.</b>	<b>Company Details &amp; Contact</b>	
	Full Address of the company for future correspondence / placing order. (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	
<b>22.</b>	<b>TO BE CONFIRMED BY VENDOR</b>	
	Country of origin:	
	Station of dispatch/Port of Shipment	
	Delivery Terms (For destination or Ex-works )	
<b>23.</b>	<b>Packing &amp; Forwarding</b> 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)	
	<b>(If applicable only)</b>	
	Installation & commissioning charge is inclusive (or) exclusive on basic rate	
	Service tax applicable extra or not	
	<b>Freight &amp; Transit Insurance</b> 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)	
<b>24.</b>	<b>DELIVERY SCHEDULE</b>	
	<b>Supply Portion</b> :Delivery schedule 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.)	
	Time period required for <b>Installation/Erection &amp; Commissioning</b> from the date of site clearance given by BHEL	
<b>25.</b>	<b>Weight &amp; Cubage of package:</b> Approximate Net weight of the total consignment: Approximate Gross weight of the total consignment: Approximate volume of the total consignment:	
<b>For any queries / clarifications the bidders may contact us through e-mail &lt;pgavictor@bheltry.co.in&gt;</b>		

**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:  
Designation:

Signature with date:

(AFFIX OFFICIAL SEAL HERE)

(PLEASE AFFIX YOUR SIGNATURE WITH SEAL ON EACH PAGE)

**MODEL PRICE BID FORMAT FOR INDIAN BIDDERS**

Enquiry No. &amp; Date:

Bidder's Offer No. &amp; Date:

Sl No	Description of item	Unit (SE T/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)
10	Supply portion							
20	Supply portion							
30	Installation & Commissioning charge for SL no.10 (if available in tender scope and exclusive from supply portion)							
40	Installation & Commissioning charge for SL no.20 (if available in tender scope and exclusive from supply portion)							
	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 &amp; 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 for .....Micro / Small (~~Strike off which is not applicable~~)  
Category under MSMED Act 2006.

Date:

(Signature)

Name -

Membership number -

Seal of Chartered Accountant