

BHARAT HEAVY ELECTRICALS LIMITED TIRUCHIRAPALLI
CAPITAL PURCHASE

Annexure-A

ACCEPTANCE OF COMMERCIAL TERMS AND CONDITIONS BY THE INDIGENOUS 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 INDIAN VENDORS

Sl. No.	DESCRIPTION
1.	❖ The Bidders shall submit their offer through E-Procurement website only www.bheleps.buyjunction.in. ❖ <u>Part I - Technical and Commercial Bid</u>: This should contain all the copies of technical bid together with un-priced commercial bid. ❖ <u>Part II - Price Bid</u>: This part should contain the schedule of price particulars and must be co-related to the technical details provided in Part I. Offers will be accepted & received till 14.00 Hr. on the due date. Therefore Vendors shall ensure to submit the offers before this time. Late offers will not be considered. Bidders are requested to refer to attached “DSC Guidelines” & “e Proc Vendor Communication” for submission of tender through EPS. 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. 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- A (Point No.19).
2.	<u>OPENING OF TENDERS:</u> The Part I - Technical & commercial bid alone would be opened on the Tender opening date through EPS. The Part II - Price bid of technically suitable Bidders alone would be opened through EPS. The Technically Suitable Bidders would be informed about the Price Bid opening date through e-mail / EPS. Clarifications if any required by BHEL for Technical evaluation would be sought from bidders before opening of Part II - Price bid.
3.	<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 Registration No (STC)- AAACB4146PST006. Assessment circle Tiruverambur.
4.	<u>Special Provisions for Micro and Small Enterprises (MSE)</u> 20% of the tendered quantity is earmarked for MSE suppliers in this tender. - Out of the 20% tendered quantity reserved for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC/ST entrepreneurs. - In case MSE vendor participating in the tender quotes within the price band of L1+15%, they will be allowed to supply the portion of the requirement subject to acceptance of L1 price by MSE vendor. In case of more than one such MSE, the supply shall be shared proportionately. - 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 - C) 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.

No row shall be left blank. Please indicate NA, in case the item is "Not Applicable"		Vendor's confirmation
5.	Validity: Validity of the offer should be 120 days from the date of tender opening.	
6.	Release of Purchase Order: - Purchase Orders will be released on successful L-1 vendor on single package basis. - Separate orders for supply & service will be released on the successful L-1 vendor. (Service order released only in the case of, Installation / erection / commissioning portion are applicable on tender scope & quoted separate charge for same by vendor).	
7.	Payment Terms for supply Portion: a) 80% of payment will be released after receipt & acceptance of supplied material. b) Balance 20% of payment will be released within 45-90 days after receipt, acceptance & commissioning of supply materials against submission of 10% PBG for a Warrantee period of 18 Months. Installation & Commissioning Portion (if applicable only): 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, Tiruchirapalli.	
	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.	
8.	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 despatch or 12 months from the date of receipt / acceptance / commissioning of equipment at BHEL, Tiruchirapalli whichever is more, 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: List of Consortium Banks DEUTSCHE BANK, HDFC BANK, ANZ GRINDLAYS BANK, CITI BANK, STANDARD CHARTERED BANK, BANK OF AMERICA, ABN AMRO BANK, IDBI LTD, ICICI BANK LTD, THE HONGKONG & SHANGHAI BANKING CORPORATION LTD. List of Nationalised Banks ALLAHABAD BANK, ANDHRA BANK, BANK OF INDIA, BANK OF BARODA, BANK OF MAHARASTHRA, BHARAT OVERSEAS BANK, CANARA BANK, CENTRAL BANK OF INDIA, CORORATION BANK, DENA BANK, INDIAN BANK, INDIAN OVERSEAS BANK, ORIENTAL BANK OF COMMERCE, PUNJAB NATIONAL BANK, PUNJAB & SINDH BANK, STATE BANK OF INDIA, STATE BANK OF TRAVANCORE, STATE BANK OF MYSORE, STATE BANK OF BIKANER & JAIPUR, STATE BANK OF HYDERABAD, STATE BANK OF PATIALA, STATE BANK OF MAHARASTHRA, STATE BANK OF SOURASTHRA (SBI-13.09.08), SYNDICATE BANK, UCO BANK, UNION BANK OF INDIA, UNITED BANK INDIA, VIJAYA BANK. <u>If PBG is issued by foreign counter part of the BHEL consortium Indian Bank, in case of claim against the PBG, it will be lodge in any one of the Indian counters of the Foreign Bank which issued the PBG.</u>	
9.	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 '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 Single Delivery Date (Material Dispatched after Due date) 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) Staggered Delivery 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) up to Max 10 % of Total PO value) 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	
10.	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.	
11.	Delivery Terms and evaluation process: Indian Bidders should submit their offer for FOR-BHEL, Tiruchirapalli basis . Packing & Forwarding and Freight & Insurance charges from works to BHEL, Tiruchirapalli to be indicated separately if extra from basic rate. Applicable % of GST, HSN / SAC code should be clearly indicated. Evaluation of offers shall be on the basis of delivered cost (Net cash outflow to BHEL-Trichy).	

12.	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. <u>Offers from vendors not accepting the requested guarantee period will be rejected.</u>	
13.	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.	
14.	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.	
15.	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.	
16.	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.	
17.	BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.	
18.	If offers are received from both OEM/ Manufacturer and authorized Dealer or Agent, then offer submitted by OEM/ Manufacturer will only be considered, offer of Dealer or Agent will be ignored.	
19.	Reverse Auction (RA): 1. BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA. Techno-commercially acceptable Bidders shall only be eligible to participate in the Reverse Auction. 2. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Non-submission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com). 3. The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates. 4. If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com). 5. As a reminder to the bidders, system will flash following message (in RED Colour) during the course of 'online sealed bid' - "Bidders to submit online sealed bid less than or equal to their envelope sealed bid already submitted to BHEL". 6. BHEL shall engage the services of a Service Provider, who shall extend all necessary training and assistance before commencement of ON-LINE-BIDDING through Internet, at NO extra-cost to the Bidders. Eligible Bidders shall be informed in writing, about the details of Service Provider, to enable Vendors to contact the Service Provider and get trained. Event Date, Time, Start Price, Bid Decrement, Time-Extensions, etc. shall also be communicated through the Service Provider for compliance by Bidders. 7. BHEL shall provide the calculation sheet through the Service Provider, which shall be helpful to arrive at "TOTAL COST to BHEL", like Packing and Forwarding Charges, Taxes and Duties, Freight Charges, Insurance, Service Tax and other loading factors (for non-compliance to BHEL Standard Commercial Terms and Conditions), for each of the Bidder, to enable them to fill in the price and keep it ready for inputting data during the RA. 8. Successful bidder shall be required to submit the final prices (L1) in prescribed format for price breakup including that of line items, if required, quoted during the Online Reverse Auction, duly signed and stamped as token of acceptance without any new condition to the Service Provider, within 2 working days of RA without fail. 9. Any variation between the final bid value and that in the confirmatory signed price breakup document will be considered as tampering the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings (as available on www.bhel.com). 10. 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 results of the RA scrapped / aborted. 11. In case BHEL decided to go for Reverse auction, the H-1 bidder(s) (whose quote is highest in the online sealed bid) may not be allowed to participate in further Reverse Auction.	
20.	ARBITRATION: 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 it's 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 & conditions of Contract.	

21.	➤ 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. ➤ 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. ➤ 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.		
22.	Company Details & Contact		
	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 with copy	
	GSTIN No	HSN Code	
	Name of the contact person:	Mobile No.:	
	e-mail ID		
23.	TO BE CONFIRMED BY VENDOR		
	Country of origin:		
	Station of dispatch / Port Of Shipment		
	Delivery Terms: FOR Destination basis		
	Packing & Forwarding Charges in % or Lump sum, if extra from basic rate		
	% of GST		
	(If applicable only) Installation & Commissioning charge is inclusive (or) exclusive on basic rate.		
	GST % (Service Portion) extra or Not		
	Freight & Transit insurance charges (if any, in Lumpsum (or) percentage) from Dispatching station to BHEL Tiruchirappalli.		
24.	DELIVERY SCHEDULE: Supply Portion: 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 Installation / Erection & Commissioning from date of site clearance given by BHEL, Trichy.		
25.	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 < akumar@bheltry.co.in >			

NOTE:-

- a) Your specific acceptances to our Payment terms, LD, Risk Purchase Clause 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)

Certificate by Chartered Accountant

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.5.0.1722(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

Annexure-B**Bharat Heavy Electricals Limited TIRUCHIRAPPALLI/CAPITAL PURCHASE****MODEL PRICE BID FORMAT FOR INDIAN BIDDERS**

Enquiry No. & Date:

Bidder's Offer No. & Date:

Sl. No.	Description of item	Unit (Set / No.)	QTY.	Basic Rate per Qty. (in Rs.)	Total Value for full tender Qty. (in Rs.)	GST in %	Total Value in Rs. (Including all taxes & duties)
10	Supply Portion						
10.a	Installation and Commissioning Charges for Sl. No: 10 (if available in tender scope and exclusive from basic rate for supply portion)						
	Total Value in Words:						
	Packing & Forwarding charges (if any) in percentage (or) Lump sum						
	FOR Dispatching station value in Rs.						
	Percentage of Freight & Transit insurance charges, if any (Lump sum or %) from Dispatching station to HPBP-BHEL, Trichy.						
	Approximate Net weight of the total consignment						
	Approximate Gross weight of the total consignment						
	Approximate Dimensions of the Consignment						

Signature & Seal of Vendor

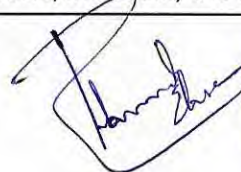
The price bid should be submitted only as per the above format. No row shall be left blank. Please indicate NA, in case the item is "Not Applicable".

ANNEXURE - PART-A**SUPPLY, INSTALLATION AND COMMISSIONING OF LPG UNLOADING COMPRESSOR****QUALIFICATION CRITERIA****THE BIDDER HAS TO COMPULSORILY MEET THE FOLLOWING REQUIREMENTS TO GET QUALIFIED FOR CONSIDERING THE TECHNICAL OFFER**

S.No	Description	Vendor to confirm
1	Only those vendors, who have experience and carried out the following activities specified in Sl.No.1.1 to 1.3 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 LPG unloading Compressor of 16 cfm or above for atleast to two companies in the past five years from the date of tender opening for which required order copies are to be submitted along with the offer.	
1.2	The vendor should submit performance certificate atleast for one year from minimum one customer for the satisfactory performance of the LPG Unloading compressor that is supplied for order submitted for the above Sl.No.1.1 in the customer's letter head.	
1.3	The vendor shall be either manufacturer of LPG Unloading compressor (OEM) or authorised dealer of the OEM of LPG Unloading compressor for which required documents are to be submitted. Incase the vendor is an authorised dealer, the valid dealership certificate issued by the OEM is to be submitted.	
2	The vendor should submit the following details of the customer specified in the order submitted for the above Sl.No.1.1. a)Postal address of the customer,Name & Designation of the contact person of the customer. b)Phone number and email address of the contact person of the customer.	
3	BHEL reserves the right to visit the manufacturer's works if required for verifying the manufacturing facilities and any other credential furnished by the vendor. In case the information furnished alongwith the offers is found to be false/incorrect, the offer shall be rejected.	



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R. MUHAMMAD EHSAN
Senior Engineer
Maintenance & Services
BHEL, TRICHY - 620 014.

TECHNICAL SPECIFICATION LPG UNLOADING COMPRESSOR - 1 (FM CAPACITY)

ANNEXURE - PART B

SUPPLY, INSTALLATION AND COMMISSIONING OF LPG UNLOADING COMPRESSOR

Sl.No.	DESCRIPTION	SPECIFIED / TO BE CONFIRMED BY VENDOR	VENDOR'S OFFER	DEVIATION IF ANY,VENDOR TO SPECIFY
1.0	Scope of Supply:			
1.1	Design, Manufacture, Supply, Erection and Commissioning of 16 cfm capacity LPG Unloading Compressor, Vertical, Single Stage, Single acting, Air cooled, Lubricated, Reciprocating LPG compressor along with complete accessories.	Vendor to confirm		
2.0	Application: For LPG Liquid transfer - Vapour recovery from 18 MT mobile LPG tankers to Pressure Vessels available at MHD / LPG yard	Vendor to confirm		
3.0	Technical Specifications:			
3.1	Service : LPG / Propane	Vendor to confirm		
3.2	Type: Vertical	Vendor to confirm		
3.3	Number of stages of compressor : Single	Vendor to confirm		
3.4	Compressor Speed	Vendor to specify		
3.5	Piston Displacement (Min) : 15-16 cfm	Vendor to confirm & Specify		
3.6	Bore of Cylinders	Vendor to specify		
3.7	Stroke Length	Vendor to specify		
3.8	The Material of Construction of the following Element: a) Cylinder / Head b) Valves c) Piston Rods d) Piston rings e) Cross head / Crank Shaft / Connecting Rod f) Gaskets & O -rings etc. All Pressure parts are should of greater resistance to both thermal & mechanical shock . The design shall be for ease of maintenance, with all components readily accessible	Vendor to specify		
3.9	Inlet Pressure Range : Preferably 2-10 kg/cm2	Vendor to confirm		
3.10	Maximum Working Pressure	Vendor to specify		
3.11	Inlet Temperature	Vendor to confirm & Specify		
3.12	Discharge Temperature (Max.)	Vendor to specify		
3.13	Discharge Pressure	Vendor to specify		
3.14	Compressor Shaft BHP (Peak)	Vendor to specify		

[Signature]

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[Signature]

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TECHNICAL SPECIFICATION LPG UNLOADING COMPRESSOR - 1 FM CAPACITY

3.15	Recommended Motor (Flame Proof)	Vendor to specify		
3.16	Drive: "V" Belt drive with Non- Sparkling Vee belt guard and antisatatic "V" Belt	Vendor to confirm & Specify		
4.0	Lubrication Systems:	Vendor to confirm		
4.1	Preferably of Splash Lubrication system, provided with pilot valve, Inlet & discharge manifold	Vendor to confirm		
5.0	Accessories to provided along with the compressor:			
5.1	Necessary Inlet Scrubber Tank, Liquid Trap with Manual Drain valve and suction strainer	Vendor to confirm		
5.2	Safety Relief valve on gas discharge / other required location	Vendor to confirm & Specify		
5.3	Non return valve at the discharge	Vendor to confirm		
5.4	Four Way Valve, Stariner, Piping & fittings, motor pulley and other accessories provided	Vendor to confirm & Specify		
6.0	Instumentation:			
6.1	Diaphragm pressure guages, SS bourdon type with 1/2" SS:3-4 themowell located at gas discharge . Necessary Suction pressure Gauge, Discharge Pressure Gauge & Low Lube Oil Pressure gauge shall be provided.	Vendor to confirm & provide details		
6.2	Pressure switch with isolation valve for gas suction, Gas discharge etc.	Vendor to confirm		
6.3	Pressure gauges shall be suitable to hazardous area & should be standard size NPT / BSP connection for easy replacement. Reputed make acceptable to BHEL only to be used.	Vendor to confirm		
6.4	Liquid level guage at Inlet Scrubber tank	Vendor to confirm		
7.0	Motor:			
7.1	The motor is to be specially designed flame proof motor and suitable for the torque, speed and horse power characteristic of the compressor. Slide Rails for motor to be provided.	Vendor to confirm		
7.2	The motor shall be of asynchronous type and TEFC design and shall be compatible for use with VFD.	Vendor to confirm		
7.3	The motor is to be operated by 3 phase, 415V +/-10% , 50Hz +/-5% power source.	Vendor to confirm		
7.4	The starting current of the motor(inclusive of tolerance) to be specified.	Vendor to specify		
7.5	The motor should be Squirrel cage induction motor with suitable rating, IE-3, IP 55, S1 and Class F insulation conforming to IS:2148 suitable for DOL starter with flame proof application.	Vendor to confirm		
7.6	Motor should confirm to IS standard (IS:12615-2011)	Vendor to confirm		

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TECHNICAL SPECIFICATION LPG UNLOADING COMPRESSOR - 1 FM CAPACITY

7.7	Motor make: ABB/ SIEMENS/ KIRLOSKAR/ CGL/ INGERSOLL RAND or Any other BHEL approved makes	Vendor to confirm		
7.8	Vendor shall indicate the capacity of motor selected and its frame size	Vendor to indicate		
8.0	Safety Systems:			
8.1	The various safety interlocks offered with the entire system to be mentioned in detail.	Vendor to provide details.		
8.2	The entire assembly should be leak-proof, flame proof and pressure tested for LPG safety.	Vendor to confirm.		
8.3	All components used including cables, glands etc. shall conform to necessary standards regarding usage in hazardous areas.	Vendor to confirm and provide necessary details.		
9.0	General Points:			
9.1	The offer shall include the catalogue for the offered equipment and complete technical description of all parts of the compressor as also the material of construction of the major parts. Full description of the compressor protection features should be included.	Vendor to confirm		
9.2	GA Drawing, Schematic & Foundation diagram showing the layout and interconnection shall be submitted along with the offer.	Vendor to submit		
9.3	Incase of any foundation requirement for the compressor, the same shall be clearly mentioned in the offer and supply of the foundation material like bolts and nuts, washers, levelling plate, etc., required for total installation shall be in vendor scope. Only civil work will be in BHEL Scope.	Vendor to confirm		
9.4	All electrical devices, contactors, relays, limit switch, push buttons, etc. shall be from SIEMENS/ L&T/ ALSTOM/ BCH/ Telemechanique or any other BHEL approved makes.	Vendor to confirm		
9.5	Compressor package should have noise level less than 85 dB(A) at 1 M distance	Vendor to confirm		
9.6	Vendor shall specify the time taken for the following: a) Liquid Transfer b) Vapour Recovery c) Total time taken for transferring liquid & vapour	Vendor to Specify		
9.7	Floor area required (Length, Width, Height) for complete machine & accessories	Vendor to specify		
9.8	Total connected load in kVA	Vendor to specify		
9.9	Total weight of the compressor	Vendor to specify		

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TECHNICAL SPECIFICATION LPG UNLOADING COMPRESSOR - 1 FM CAPACITY

10.0	Spares:			
10.1	Itemized break up of mechanical, electrical and electronics spares used in the machine in sufficient quantity as per recommendation of vendor for 2 years of trouble free operation on continuous running basis shall be offered by vendor. Spare price shall be quoted separately and shall not constitute part of main offer. (Unit price for each item of spare shall be offered in the price bid).	Vendor to offer		
10.2	All type of spares for total machines and accessories shall be available for atleast 10 years after supply of the machine.If machine is likely to become obsolete in this period,the vendor should inform BHEL sufficiently in advance and provide drawings of parts/details of spares and supplier's to enable BHEL to procure in advance, if required.	Vendor to confirm		
10.3	Vendor to confirm the complete list of spares for machine and accessories,along with item part number/specification/type/model and name and address of the spare supplier shall be furnished along with documentation to be supplied with the machine.	Vendor to confirm		
11.0	Documentation:			
11.1	Three set of following documents (in 3 hard copies) in English language should be supplied along with the compressor.	Vendor to confirm		
11.2	Operation and Maintenance Instructions	Vendor to confirm		
11.3	Spare parts and bought out items manual	Vendor to confirm		
11.4	GA Drawing	Vendor to confirm		
11.5	Compressor & Motor data Sheet, Electrical wiring drawings, Power and control circuits etc.	Vendor to confirm		
11.6	Necessary material Inspection & test certificate, applicable Pressure test certificates are to be submitted.	Vendor to confirm		
11.7	One additional set of all the above documentation shall be given in the form of CD.	Vendor to confirm		
12.0	Training:			
12.1	The vendor shall impart 1 day training to BHEL operators and maintenance crew in Operation and Maintenance after the commissioning of machine at BHEL works.	Vendor to confirm		

A. Danasekar

A. DANASEKAR
Sr. Engineer
Maintenance & Services
BHEL, TRICHY - 620 014.

R. Muhammad Ehsan

R. MUHAMMAD EHSAN
Senior Engineer
Maintenance & Services
BHEL, TRICHY - 620 014.

TECHNICAL SPECIFICATION LPG UNLOADING COMPRESSOR - 1 CFM CAPACITY

13.0	Erection and Commissioning:			
13.1	Vendor to take full responsibility for erection, start up, test the compressor, its control and all type of other supplied equipments upto its commissioning and performance prove out test at site. Service requirements like power, interconnecting compressor delivery piping with existing piping , civil works shall be provided by BHEL.	Details of this requirement should be informed by vendor in advance		
13.2	Tools, tackles , instruments and other necessary equipments required to carry out all above activities should be brought by the vendor.	Vendor to confirm		
13.3	All spares required for commissioning of the compressor shall be brought by the vendor	Vendor to note		
13.4	Schedule of erection and commissioning shall be submitted with offer.	Vendor to submit		
13.5	Erection and commissioning cost should be furnished in detail seperately by vendor along with offer. Erection and commissioing charges shall be on lumpsum basis.	Vendor to confirm		
14.0	Testing and acceptance:			
14.1	The equipments shall be offered for inspection by BHEL Engineers at supplier's work prior to despatch.	Vendor to confirm		
14.2	Testing : Compressor shall be fully tested at the supplier work to determine its mechanical and electrical characteristics. Compressor capacity, pressure and temperature shall be measured and recorded.	Vendor to confirm		
14.3	Commissioning of the Compressor and Performance Prove – out of Compressor Capacity / speed, Pressure & temperature and Smooth Functioning of the Compressor (at BHEL Works) shall be the SOLE RESPONSIBILITY of the supplier.	Vendor to confirm		
15	Guarantee:			
15.1	The equipment and accessories shall be guaranteed for proper operation and shall have guarantee for all parts for a period of 24 months from the date of commissioning.	Vendor to confirm		
16	Delivery Period:			
16.1	Preferable Delivery Period to be within 12 Weeks from the date of purchase order.	Vendor to confirm		


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DSC GUIDELINES

It should be **DSC** (Digital Signature Certificate) (**Class 3- SHA2- 2048 BIT-WITH BOTH SIGNING & ENCRYPTION COMPONENT SEPARATELY**).

For DSC GUIDELINES & steps regarding procurement & further tasks to be done to submit offer as follows:

The Requirement:

1. A PC with Internet connectivity.
2. DSC (Digital Signature Certificate) (**Class 3- SHA2- 2048 BIT-WITH BOTH SIGNING & ENCRYPTION COMPONENT SEPARATELY**)
3. JRE 1.6 must be installed in your system.

The process of utilizing e-procurement necessitates usage of **DSC (Digital Signature Certificate) (Class 3- SHA2- 2048 BIT- SIGNING & ENCRYPTION)** and you are requested to procure the same immediately, if not presently available with you. Please note that only with DSC, you will be able to login the e-procurement secured site and take part in the tendering process.

The contact details of the DSC Certifying Authority as given below

1	e-Mudhra	http://www.e-Mudhra.com	5	NIC	www.safescrypt.com
2	GNFC	www.ncodesolutions.com	6	Safescrypt	www.safescrypt.com
3	IDRBT	www.idrbtca.org.in	7	TCS	www.tcs-ca.tcs.co.in
4	MTNLTrustline	www.mtnltrustline.com			

(Other)DSC Contact details:

Ms. Solly (M/s. R3 eConsulting Pvt Ltd)

Mobile : 9444841015

Tel Nos. 044 2815 2670 / 72 / 4207 0906

**Email : chennai@sgs-ds.com, soy@saspartners.com
chennai@saspartners.com**

We have finalized the e-procurement service Provider as,

M/s m Junction services Limited, Kolkata

Godrej Water Side, 3rd Floor, Tower-1, Plot-V, Block - DP

Sector - V, Salt Lake, Kolkata-700091, West Bengal, INDIA

Please get in touch at below numbers for any issues related to bid submission in EPS.

SL	NAME	e-Mail ID	Land Phone No	ROLE
1	Mr. P Peter Raj -	'peter.raj@mjunction.in'	09942069052	
2	HELP DESK	eps.customercare@mjunction.in	Landline : 033-66106217/ 6013/ 6426/ 6176/ 6046 (From 9:30am to 5:30pm) 033-66106426/ 6217/ 6013/ 6046/ 6176 9163348283/ 9163348284/ 9163348285/ 9163348286/ 8584008116 (From 5:30pm to 8:30pm)	
3	Mr. Harish Kumar Ramu	harish.ramu@mjunction.in	(+91) 09840704941	
4.	Mr. DHANARAJ.P	p.dhanaraj@mjunction.in panneer.dhanaraj@mjunction.in	(+91) 9500199108, (+91) 9282403700	Customer Relationship Manager
5	Mr. Saumendu Neogi	saumendu.neogi@mjunction.in	(+91) 9163348205	PROJECT MANAGER
6	Mr. R. Vishwanathan	r.vishwanathan@mjunction.in	(+91) 9163348242	Business Analyst

After procurement of Digital Certificate kindly follow the process below **for properly login into the BHEL EPS portal.**

1. Please install JRE 1.6 and your Digital Certificates (Class 3) for sign in and encryption.
2. Please install net meeting software like TeamViewer (www.teamviewer.com) for online support.
3. You are required to login to <https://bheleps.buyjunction.in> and click **Sign in**
4. Key in your login code and password and click **Enter**
5. System will ask you to change password,
6. Again login with new password
7. System will show sign in certificate, Select your sign in certificate and click **OK**
8. You will be logged out automatically
9. Contact Buyer for certificate approval
10. After your certificate is approved by Buyer, login again with login code and new password
11. Select Digital certificate
12. On the top right hand margin you will find **"Digital Certificate"** Click on **"Digital Certificate"**
13. Select **"For Encryption"** Radio button if you have **2048** bit certificate. Else you select **"Both"** Radio button if you have **1024** bit certificate.
14. System will display your encryption certificate, Select the same
15. New window will appear showing thumbprint of certificate, Click **"CLOSE"**
16. Then Click **"Exit"**

Now follow the steps for submission of the tender.

Go to **"TENDERS"** and then click on then **"VIEW"** button. Than select status as **"OPEN FOR QUOTATION SUBMISSION"** and click on the **"ENTER"** button. This will display all the eligible RFQs and then you can click on the relevant RFQ to view all the RFQ details.

- After clicking on the RFQ you would be able to see the RFQ details.
- To view all the items attached to the RFQ, you can click on **"VIEW ITEMS"** button. By clicking on **"BACK"** you can go back to the RFQ header. Now you need to click on **"Response to RFQ/NIT"**.
- You will be landed to the RFQ/NIT details page where you will be able to see the Item details.
- To go back to the RFQ you have to click on the **"BACK TO RFQ"** button.
- To respond to the RFQ you have to click on **"RESPOND TO RFQ/NIT"** button and you will be taken to the Terms And Condition page.
- To participate in the RFQ you have to choose the first option (i.e. **"I have understood the RFQ/NIT in full and agree to submit quotation for the same on behalf of my organization"**) and click on **"ENTER"** button.
- You will be then taken to the **ADD QUOTATION** page where you have to click on **"ADD QUOTATION"** and fill in the relevant bid details.
- You will be taken to the techno-commercial page where you have to fill the relevant fields.
- To add any techno-commercial documents you have to click on **"ADD ATTACHMENT"** button than you have to click on the **"ADD ROW"** button.
- Then insert **LABEL** name, **FILE** Name and then attach the required file by clicking on the BROWSE option. Now click on the **"SIGN FILE"** button, now the system will ask for the encryption DSC and after successful verification you have to click on **"ATTACH/DETACH"** button for successful file attachment.
- Then click on **"GO TO HEADER"** button to go back to RFQ Header.
- The system will again ask for the Certificate and after successful verification you will be landed to the techno - commercial page.
- After successful verification of the certificate you have to click on **"SAVE AND GOTO ITEMS"** button to put the basic price for the items.
- Again the system will ask for DSC and you have to select you DSC.
- You have to put the basic price in the basic price column and then Click on the **"SAVE AND GOTO HEADER"** button
- Again the system will ask for DSC and you have to select you DSC.
- To submit the quotation click on **" SUBMIT QUOTATION"** button
- After successful verification of DSC, you can submit your quotation by clicking on the **"CONFIRM"** button.

After successful submission of your quotation the system will show that your quotation has been submitted successfully. You are requested to submit the bid well before the due date to avoid the last minute issues.

Please download the Supplier Manual from the below link

https://bheleps.buyjunction.in/BQEPS/html/Standard%20Documents/BHEL_Supplier%20Manual.pdf?OWASP_CSRFTOKEN=NXKI-NQ4W-2YMN-OJIA-0X2D-O3AW-CLN0-R2NX

e- Procurement – BHEL TRICHY

Dear Sir/Madam,

BHEL Trichy has implemented e-Procurement and it is going to be the way of working in future.

The Requirement :

1. A PC with Internet connectivity &
2. DSC (Digital Signature Certificate)(**Class 3- SHA2- 2048 BIT- SIGNING & ENCRYPTION**)

The following are the benefits of e-Procurement Process.

1. Ensuring no offer is missed due to last minute submission, postal delays etc.
2. Reduced Tendering & ordering cycle time
3. Economical, smoother & speedy communication
4. Greater Transparency
5. Big step towards paperless procurement process, Minimal human error
6. No geographical barriers
7. Vendor gets alerts regarding issue of new tender enquiry, amendments, clarifications etc
8. Submission of offer from the comforts of their office from any location
9. On line clarifications
10. Direct Cost Savings such as reduced Paper costs, reduced printing costs, reduced mailing costs, reduced telephone costs and reduced fax costs.

BHEL has finalized the e-procurement service Provider

M/s m Junction services Limited, Kolkata

Godrej Water Side, 3rd Floor, Tower-1, Plot-V, Block - DP
Sector - V, Salt Lake, Kolkata-700091, West Bengal, INDIA

Please get in touch with them immediately. The contact details of the service provider is given below:

SL	NAME	e-Mail ID	Mobile No	ROLE
1	DHANARAJ.P	panneer.dhanaraj@mjunction.in	(+91) 9500199108	Customer Relationship Mgr.
2	HELP DESK	eps.customercare@mjunction.in	033 – 66106426 / 54 9163348104,9231027017	

The process of utilizing e-procurement necessitates usage of DSC (Digital Signature Certificate)(**Class 3- SHA2- 2048 BIT- SIGNING & ENCRYPTION**) and you are requested to procure the same immediately, if not presently available with you. Please note that only with DSC, you will be able to login the e-procurement secured site and take part in the tendering process.

The contact details of the DSC Certifying Authority as given below

1	e-Mudhra	http://www.e-Mudhra.com	5	NIC	www.safescrypt.com
2	GNFC	www.ncodesolutions.com	6	Safescrypt	www.safescrypt.com
3	IDRBT	www.idrbtca.org.in	7	TCS	www.tcs-ca.tcs.co.in
4	MTNLTrustline	www.mtnltrustline.com			

Your early action in this regard is highly solicited.

Regards