



An ISO 9001
Company

Bharat Heavy Electricals Limited

(High Pressure Boiler Plant)

Tiruchirappalli – 620014, TAMIL NADU, INDIA

CAPITAL EQUIPMENT/ MATERIALS MANAGEMENT

ENQUIRY

NOTICE INVITING TENDER

Phone: +91 431 257 76 53

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Email : skaruna@bheltry.co.in

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TWO PART BID

Tender to be submitted in two parts.

Enquiry
Number:

2621100108

Enquiry
Date:

16.06.2011

Due date for submission
of quotation:

16.07.2011

You are requested to quote the Enquiry number date and due date in all your correspondence. This is only a request for quotation and not an order.

Please note that under any circumstances both delayed offer and late offers will not be considered. Hence vendors are requested to ensure that the offer is reaching physically our office before 14.00 hrs on the Date of tender opening.

Item	Description	Quantity	Delivery (Item required at BHEL on)
10	Design, Supply, Fabrication, Transportation, Erection and Commissioning of Underground Bulk HSD Storage Tank Confirming to IS -10987 -1992 of 1 No. x 40 KL (2.75 M Dia x 7.5 M Length Horizontal) Nominal Capacity Fabricated from MS Plates and their Accessories including Liaison work with various agencies as per the technical specification, general guidelines instructions & commercial conditions applicable (to be downloaded from web site www.bhel.com or http://tenders.gov.in)	01 No	30.10.2011

Important points to be taken care during submission of offer

1. Checklist to be filled and enclosed along with the offer failing which, the offer will not be considered for evaluation.
2. Subsequent to the hosting of this Enquiry, any corrigendum to the Enquiry that may be hosted in the BHEL Web-site as well as Government Tenders-portal shall be viewed by the vendors regularly to know the details of corrigendum. In case if any vendor without seeing the corrigendum quoted as per original Enquiry and intimate that they have wrongly quoted will not be considered and rejected. However as per the appropriate Policy of BHEL action will be taken on them in this regard.

BHEL's General guidelines / instructions (refer MM/CE/GT/001) including bank guarantee formats and list of consortium banks, commercial terms check-list can be downloaded from BHEL web site <http://www.bhel.com> or from the Government tender website <http://tenders.gov.in> (public sector units > Bharat Heavy Electricals Limited page) under Enquiry referred above.

Tenders should reach us before 14:00 hours on the due date
Tenders will be opened at 14:30 hours on the due date
Tenders would be opened in presence of the tenderers who have submitted their offers and who may like to be present

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED

Manager / MM / Capital Equipment

S.KARUNANIDHY

Manager

MM / Capital Equipment

BHEL, TRICHY-620 014

QUALIFYING CRITERIA FOR THE SUPPLY, ERECTION & COMMISSIONING OF UNDER GROUND 1X 40KL HSD STORAGE TANK FACILITY

Section I : Company Profile: The Bidder has to provide the details pertaining to each clause in the table given below and whenever necessary additional sheets may be attached (giving clear reference number) to understand the profile of the BIDDER's COMPANY.

S.No	PARTICULARS	VENDOR'S RESPONSE
1	Number of Years of Experience of the BIDDER in the field of Design, Manufacture & Supply of HSD Storage Vessels and Commissioning as per the Regulations of Statutory Authorities.	
2	Details on the Codes/Standards of Equipment Design, Manufacture, Erection & commissioning of Vessels at Client's Works.	
3	Details on Manufacturing Facilities available with the BIDDER for: a) Metal Forming Machines. b) Heat Treatment Facilities c) Heavy Machining & Grinding d) Vessel Assembly & Testing.	
4	Details of Quality System (with stages of internal Inspection) followed for the Vessel Building and Testing of Capacity.	
5	Details of Electrical/Electronic Control Panel Design, Manufacturing and Testing Facilities for Vessels.	

Section II : Qualifying Criteria		
The Bidder has to compulsorily meet the following requirements to get qualified for submitting an offer for the 40KL HSD Storage & Supply Facility: (Additional Sheets shall be attached with the OFFER, to provide requisite details) Otherwise the offer are liable for rejection.		
S.No	PARTICULARS	VENDOR'S RESPONSE
6	The tenderer should be CCOE approved fabricator of Pressure vessels under SMPV rules 1981(unfired). Copy of license should be enclosed along with the technical bid.	
7	The BIDDER shall have a minium of Five Years of Contunuous Experience in the Field of Design, Manufacture, Supply, Erection, and Commissioning of HSD Strorage Vessals with CCOE approval	
8	The BIDDER might have supplied, erected & commmisioned atleast FIVE numbers of HSD Storage Vessels and atleast one no. among it to be of UNDER GROUND type with Associated Accessories (including Safety Associated Accessories (including Safely Devices) of Capacity 20KL and above.	
9	Performance Certificate in the enloed FORMAT for a period, not less than one year, from CUSTOMERS AND Rreference List of custimrs wth full contact details of CONTACT PERSON, who are the End Users of supply as per CLAUSE No.8	
10	BHEL reserves the right to verify the information provided by vendor, and In case, it is found to be false/incorrect, the offer shall get rejected.	
11	Details on SERVICE-AFTER-SALES Set-up in India including the Addresses of Agents/Service Centers in india, to be furnished.	
Section III : BID / OFFER FORMATS		
The BIDDER has to comply with the following, for accepting the Technical Offer for scrutiny by the Purchaser:		
S.No	PARTICULARS	VENDOR'S RESPONSE
12	The BIDDER shall SUBMIT the offer in TWO PARTS Technical (with PART A & PART B) & Commercial and Price Bid.	

13	The OFFER Shall contain a comparative statement of Technical Specifications given by BHEL and the offer Details submitted by the Bidder, against each Clause. A just 'YES' or CONFIRMED' or NO-DEVIATION' or 'ACCEPTED' or similar words in the technical coparativ statement may lead to disqualification of the Technical offer.	
14	The Technical offer shall be supported by product Catalogue and Data Sheets In ORIGINAL and complete technical details of 'Bought-out-Items' with copies of Product Catalogue (if applicble)	
15	The Commercial Offer shall contain the Scope of supply and the Un-Priced Part of the Price -bid, for confirmation of the inclusion of all the accessories, auxiliary parts, safety devices, spares consumbles, etc with the main vessel/equipment, to meet the technical specification requirements.	
16	Earlier performance/field experience (including service support) if any, with BHEL for the BIDDER's Equipement, will be a reckoning factor for the technical qualification of the OFFER.	
17	<p>a.The expected delivery period (including the time for Pre-Dispatch Inspection clearence by BHEL) for the HSD Storage vessels with associated Accessories & Safety Devices, is not more than three months (which includes time for General Arrangement Drawing approval by BHEL also) from the date of issue of BHEL purchase order.</p> <p>b.The erection & commissioning shall be completed in a period of one Month after the receipt of equipment at site.</p> <p>c. Statutory clearances concerned from the local authorities and other statutory agencies in complete shall be completed before commissioning.</p>	

	Utility / Thirumayam projects / 1x 40 HSD tank			
Sl.No	Description	Specification	Vendor's offer	Deviation if any,vendor to specify
1	NAME OF WORK	Design, supply, fabrication, transportation,erection of commissioning of underground Bulk HSD storage tank confirming to IS - 10987 - 1992 of 1 No. x 40 KL (2.75 Mtrs Dia x 7.5 Mtrs length horizontal) nominal capacity fabricated from MS plates & their accessories including Liaison work with various agencies.		
2	BRIEF DESCRIPTION OF WORK	M/s. BHEL / Tirchy has proposed to set up 1 x 40 KL capacity of U/G HSD tank storage facility in the premises of BHEL , at THIRUMAYAM to meet day to day HSD requirement for 2000 KVA DG SET.		
3	HSD TANK WITH ALL NECESSARY FITTINGS/MOUNTINGS FOR 1x 40 UNDERGROUND BULK HSD STORAGE CAPACITY	Vendor to specify the details		
4	HSD tank bottom pedestal steel supports with steel plates .	Vendor to specify the details		
5	For the Tank wrapping of STP sheet .	Vendor to specify the details		
6	Digital Level Indicator for U/G tank connection to BMS (digital percentage level indicator for HSD storage tanks consisting of display unit and level sensor. The display unit should have 2-1/2 digit seven segment LED to dip -1 No.	Vendor to specify the details		
7	Flame Arrestor for U/G tank vent line as per CCOE, Norms.	Vendor to specify the details		
8	1 no. working and 1 No. standby fuel pump near the underground storae tank of capacity 80 LPM make Tushaco with 2HP flame proof motor as per IS- 2148 make Kirloskar along with base plate.	Vendor to specify the details		
9	Flame proof ON/ OFF (DOL starter) switch at fuel pump in side the yard area	Vendor to specify the details		
10	Pressure Gauges 4" Dia , 0-10 kg range with isolation valve - 1 SET	Vendor to specify the details		
11	Pressure Relief Valve near the Pump outlet line - 1No.	Vendor to specify the details		

12	Piping with Fittings:			
12.1	Seamless Piping including all necessary bends, flanges, reducers, packing sheets and tees.	Vendor to specify the details		
12.2	40mm dia (approx) for U/G tank main inlet & outlet pipelines -1 LOT	Vendor to specify the details		
12.3	80mm dia (approx) -1 LOT	Vendor to specify the details		
13	Standard Ball Valves and Strainers with flange ends for HSD use			
13.1	40mm size valve -12 nos.	Vendor to specify the details		
13.2	80mm size valve -1 no.	Vendor to specify the details		
14	NRV flange type of Gun metal			
14.1	40 mm size valve -2 nos.	Vendor to specify the details		
15	Strainers			
15.1	40mm size - 1 no.	Vendor to specify the details		
15.2	80mm size - 1 no.	Vendor to specify the details		
16	FLOW METER			
16.1	Digital Flow meter for measuring quantity suitable to HSD with Battery; backup system for inlet line (80mm size)- 1 set	Vendor to specify the details		
16.2	40 mm size Solenoid Valves of diaphragm type for DG Set -1 set	Vendor to specify the details		
16.3	Low level / High level transmitter probes for tank 1 set	Vendor to specify the details		
17	STRUCTURAL MATERIALS			
17.1	Pipe supports steel structural - supply, fabrication & erection for main pipeline over head tanks, day tanks & pipeline supports,etc. - 1 LOT	Vendor to specify the details		
18	Unloading wire braided rubber standard hose pipe with end fittings of 3.6 mtr length with threaded cap for Nozzle with chain static current discharging for HSD tank -1 SET.	Vendor to specify the details		
19	GI earth pati 40 x 5 for tank and motor earthing- 1 LOT	Vendor to specify the details		
20	Earthing clamps for flange joints -1 LOT	Vendor to specify the details		
21	D.C.P type of capacity 10Kg/CM2 fire extinguishers- 1 SET	Vendor to specify the details		
22	stands for the fire buckers - 1 SET	Vendor to specify the details		
23	Fire buckets - 1SET	Vendor to specify the details		
24	Sign boards- 1SET	Vendor to specify the details		
25	Spill tank For over flow fuel return line -1 No.	Vendor to specify the details		

26	Gear pump with flame proof motor as per IS- 2148 For Return line	Vendor to specify the details		
27	Flame proof DOL starter for pump near the spill tank - 1No.	Vendor to specify the details		
28	Automatic Control panel Type IP 65 rating wheater proof for operation of fuel pumps for emergency stop switch including BMS connectivity along with potential contacts -1 SET	Vendor to specify the details		
29	copper armoured cable - 1 LOT	Vendor to specify the details		
30	Earth Pit 40 x 6mm flat earthing for HSD tank, Fuelpumps and motors.	Vendor to specify the details		
31	PAINTING	two coats of primer and 2 coats of Tankmestic (Bitumen Paint) as per IS 158 code		
32	LIAISON WORK -VENDORS SCOPE			
32.1	Preparation of drawings, documentation for obtaining Proposed approval from Chief Controller of Explosives, Nagpur or Joint Chief Controller of Explosives, Chennai of Explosive including traveling, boarding and lodging, out of pocket expenses, also approval	Vendor to confirm		
32.2	Preparation of documentation for Commissioner of Police or District Collector and with different departments(Like Fire, Revenue, Police department etc..) for obtaining NOC from District Authority .	Vendor to confirm		
32.3	After obtaining NOC and total Completion of HSD installation Required Competent Persons Certifications(i.e Safety certificate s under rule 130 and tank test certificate under Rule 126 under petroleum rules 2002.)	Vendor to confirm		
32.4	Preparation of drawings, documentation for final licensiing for obtaining Final Licence from Chief Controller of Explosives, Nagpur or Joint Chief Controller of Explosives, Chennai including traveling, boarding and lodging, out of pocket expenses.	Vendor to confirm		
33	ERECTION & COMMISSIONING			
33.1	The Erection & Commissioning and handing over of the system is in the scope of Bidder.The supplier shall deploy skilled technicians for installation & commissioning of HSD STORAGE ,FIRE FIGHTING SYSTEM AND CONNECTING TO THE PROPOSED PIPE NET WORK and qualified Engineers/	Vendor to confirm		

33.2	The work shall be executed in a professional manner adopting safe working practices. All Statutory Regulations and as promulgated from time to time and as required for good Engineering practice shall be adhered to.	Vendor to confirm		
33.3	All Statutory labour laws like PF , ESI etc., in respect of labour shall be strictly adhered to.	Vendor to confirm		
33.4	The Bidder may visit the BHEL Site at Thirumayam / Trichy for HSD & their accessories for installation and commissioning for assessing the quantum of work involved, before quoting if required.	Vendor to confirm		
34	PRE-DISPATCH INSPECTION AT SUPPLIERS WORKS			
34.1	HSD & THEIR ACCESSORIES Shall be offered for Pre-dispatch inspection by BHEL Engineers at supplier's works	Vendor to confirm		
35	PROVE OUT AND ACCEPTANCE			
35.1	HSD tank & their facilities establishment completion will mean after obtain the necessary inspection completion, statutory approval and physical demonstration of all systems to the satisfaction of BHEL engineers for the safe operation of the system as per the normal required parameters to satisfy the design condition.	Vendor to confirm		
36	WARRANTY			
36.1	Warranty for products against defective materials and workmanship for a period of 12 months from the date of commissioning or 18 months from the date of despatch whichever is earlier	Vendor to confirm		
37	SPECIFIC NOTE			
37.1	Bidders must submit valid CCOE certificate copy for manufacturing of U/G HSD Tank & other facilities along with their offer, failing which offer will be liable for rejection.	Vendor to confirm		
38	BHEL SCOPE OF SUPPLY			
38.1	Complete Civil work involved for installation of U/G HSD Tank & their accessories which includes Civil Pedetals for Tanks, Pump Shed, Control Room, Unloading Gantry, Fencing, Gates.	Vendor to confirm		

38.2	Providing water tank dedicated to HSD tank Yard for Fire Fighting.	Vendor to confirm		
38.3	Providing water line upto fencing.	Vendor to confirm		
38.4	Providing single point Power source (Panel Board) to all concerned Electrical Equipments like Pump etc.	Vendor to confirm		
38.5	Explosive Fees towards Drawing Approval and towards Final License Fees for 3 years as applicable.	Vendor to confirm		
38.6	Local NOC from District Magistrate from the date of receipt of Drawings Approval.	Vendor to confirm		
38.7	Protection of the HSD yard with galvaniced chain link fencing around the HSD yard area with MS posts,	Vendor to confirm		
38.8	5 Mtr wide main gate for TANKER and 1.2 Mtr wide gate for emergency entry	Vendor to confirm		
39	Vendor's scope of supply			
39.1	Design, supply, facrication, erection of commissioning of underground Bulk HSD storage tank confirming to IS - 10987 - 1992 of 1 No. x 40 KL (2.75 Mtrs Dia x 7.5 Mtrs length horizontal) nominal capacity fabricated from MS plates & their accessories.	Vendor to confirm		
39.2	Digital Level Indicator for U/G tank connection to BMS (digital percentage level indicator for HSD storage tanks consisting of display unit and level sensor. The display unit should have 2-1/2 digit seven segment LED to dip .	Vendor to specify the specification, reputed make with quantity		
39.3	Flame Arrestor for U/G tank vent line as per CCOE, Norms.	Vendor to specify the specification, reputed make with quantity		
39.4	1 no. working and 1 No. standby fuel pump near the underground storae tank of capacity 80 LPM make Tushaco with 2HP flame proof motor as per IS- 2148 make Kirloskar along with base plate.	Vendor to specify the specification, reputed make with quantity		
39.5	Flame proof ON/ OFF (DOL starter) switch at fuel pump in side the yard area	Vendor to specify the specification, reputed make with quantity		
39.6	Pressure Gauges 4" Dia , 0-10 kg range with isolation valve	Vendor to specify the specification, reputed make with quantity		
39.7	Pressure Relief Valve near the Pump outlet line	Vendor to specify the specification, reputed make with quantity		

39.8	Seamless Piping including all necessary bends, flanges, reducers, packing sheets and tees.	Vendor to specify the specification, reputed make with quantity		
39.9	Ball Valves with flange ends	Vendor to specify the specification, reputed make with quantity		
39.1	Strainers	Vendor to specify the specification, reputed make with quantity		
39.11	Flow meters	Vendor to specify the specification, reputed make with quantity		
39.12	NRV flange type of Gun metal	Vendor to specify the specification, reputed make with quantity		
39.13	Structural steel for pipe line supports.	Vendor to specify the specification, reputed make with quantity		
39.14	Solieniod Valves of diapharm type for DG Set	Vendor to specify the specification, reputed make with quantity		
39.15	Low level / High level transmitter probes for tanks and spill tank.	Vendor to specify the specification, reputed make with quantity		
39.16	GI earth pati 40 x 5 for tank and motor earthing- 1 LOT	Vendor to specify the specification, reputed make with quantity		
39.17	Earthing clamps for flange joints -1 LOT	Vendor to specify the specification, reputed make with quantity		
39.18	D.C.P type of capacity 10Kg/CM2 fire exstinguishers	Vendor to specify the specification, reputed make with quantity		
39.19	stands for the fire buckers	Vendor to specify the specification, reputed make with quantity		
39.2	Fire buckets	Vendor to specify the specification, reputed make with quantity		
39.21	Sign boards	Vendor to specify the specification, reputed make with quantity		
39.22	Spill tank For over flow fuel return line.	Vendor to specify the specification, reputed make with quantity		
39.23	Gear pump with flame proof motor For Return line	Vendor to specify the specification, reputed make with quantity		
39.24	Flame proof DOL starter for pump near the spill tank .	Vendor to specify the specification, reputed make with quantity		
39.25	Transportation of HSD tank and related accessories to BHEL Site/Thirumayam,Pudukottai District,Tamil Nadu	Vendor to confirm		
39.26	Automatic Control panel Type IP 65 rating whether proof for operation of fuel pumps for emergency stop switch including BMS connectivity along with potential contacts	Vendor to specify the specification, reputed make with quantity		
39.27	copper armoured cable	Vendor to specify the specification, reputed make with quantity		
39.28	Double Earth pit for HSD Yard	Vendor to specify the specification, reputed make with quantity		
39.29	Charges for CCOE Approval to be paid by vendor	Vendor to confirm		
39.3	PAINTING			
39.31	Two coats of primer and 2 coats of Tankmestic (Bitumen Paint) as per IS 158 code	Vendor to confirm		

39.32	Preparation of drawings, documentation for obtaining Proposed approval from Chief Controller of Explosives, Nagpur or Joint Chief Controller of Explosives, Chennai of Explosive including traveling, boarding and lodging, out of pocket expenses, also approval	Vendor to confirm		
39.33	Preparation of documentation for Commissioner of Police or District Collector and with different departments(Like Fire, Revenue, Police department etc..) for obtaining NOC from District Authority .	Vendor to confirm		
39.34	After obtaining NOC and total Completion of HSD installation Required Competent Persons Certifications(i.e Safety certificate s under rule 130 and tank test certificate under Rule 126 under petroleum	Vendor to confirm		
39.35	Preparation of drawings, documentation for final licensiing for obtaining Final Licence from Chief Controller of Explosives, Nagpur or Joint Chief Controller of Explosives, Chennai including traveling, boarding and lodging, out of pocket expenses.	Vendor to confirm		
39.36	The indent of this specification is to provide services for executing the projects according to most modern and proven techniques and codes. The omission of specific reference to any method, and equipment or materials necessary for the proper and efficient services towards installation shall not relieve the contractor of the responsibility of providing such services / facilities to complete the work or portion of work awarded to the Supplier. The quoted rate shall deem to be inclusive of all such contingencies.	Vendor to specify		
40	Documents to be supplied along with material supply:			
40.1	Three sets of the following documents are to be provided along with supply(Both hard copy and Soft copy-CD):	Vendor to confirm		
40.2	P&I (preferably with standard coloring) with Bill of materials giving purchase specifications for each item.	Vendor to confirm		
40.3	Function diagram for the entire operations of the system giving solenoid sequences, interlocks and pressure & flow parameters ,etc for each operation.	Vendor to confirm		
40.4	List of rubber items if any with complete purchase specification.	Vendor to confirm		

40.5	Cross sectional assembly drawing for all the valves giving major dimensions, seal details, mounting details, pressure ratings, etc.	Vendor to confirm		
40.6	Detailed technical Catalogues in original for all components in the system.	Vendor to confirm		
40.7	Electrical schematic/ control circuit diagram with Bill of materials giving complete purchase specification of all bought out components.	Vendor to confirm		
40.8	Electrical wiring diagram with ferrule numbers.	Vendor to confirm		
40.9	Control panel lay-out.	Vendor to confirm		
41	Time schedule for design, supply, erection, testing & commissioning			
41.1	Three months from the date of issue of Purchase order	Vendor to confirm		
42	Spares			
42.1	The minimum required spares for the period of two years to be mentioned and quoted seperately.	Vendor to specify		