

 BHEL Tenders		Government eProcurement System			
Tender Details					
					Date : 13-May-2021 07:40 PM
 Print					
Basic Details					
Organisation Chain	Bharat Heavy Electricals Limited BHEL Trichy MM/SERVICES				
Tender Reference Number	1902100027				
Tender ID	2021_BHEL_3826_1				
Tender Type	Open Tender	Form of contract	Supply		
Tender Category	Goods	No. of Covers	2		
General Technical Evaluation Allowed	No	ItemWise Technical Evaluation Allowed	No		
Payment Mode	Not Applicable	Is Multi Currency Allowed For BOQ	No		
Is Multi Currency Allowed For Fee	No	Allow Two Stage Bidding	No		
Cover Details, No. Of Covers - 2					
Cover No	Cover	Document Type	Description		
1	Fee/PreQual/Technical	.pdf	Annexure A, Annexure PQC, Technical Annexure 1, Technical Annexure 2, Annexure B, Annexure C, Annexure N		
2	Finance	.xls	BOQ Price Bid		
Tender Fee Details, [Total Fee in ₹ * - 0.00]				EMD Fee Details	
Tender Fee in ₹	0.00			EMD Amount in ₹	0.00
Fee Payable To	Nil	Fee Payable At	Nil	EMD through BG/ST or EMD Exemption Allowed	No
Tender Fee Exemption Allowed	No			EMD Fee Type	fixed
				EMD Percentage	NA
				EMD Payable To	Nil
				EMD Payable At	Nil
Work /Item(s)					
Title	Supply of Liquid Argon and Fixed Facility of LAR system and Erection and Commissioning of LAR system at Unit I and II				
Work Description	Supply of Liquid Argon and Fixed Facility of LAR system and Erection and Commissioning of LAR system at Unit I and II				
Pre Qualification Details	As per tender documents				
Independent External Monitor/Remarks	NA				
Show Tender Value in Public Domain	No				
Tender Value in ₹	0.00	Product Category	Miscellaneous Goods	Sub category	Liquid Argon
Contract Type	Tender	Bid Validity(Days)	90	Period Of Work(Days)	730
Location	BHEL-Trichy	Pincode	620014	Pre Bid Meeting Place	NA
Pre Bid Meeting Address	NA	Pre Bid Meeting Date	NA	Bid Opening Place	BHEL-Trichy
	No		No		

Should Allow NDA Tender		Allow Preferential Bidder	
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Critical Dates

Publish Date	14-May-2021 09:00 AM	Bid Opening Date	24-May-2021 02:00 PM
Document Download / Sale Start Date	14-May-2021 09:00 AM	Document Download / Sale End Date	24-May-2021 12:00 PM
Clarification Start Date	NA	Clarification End Date	NA
Bid Submission Start Date	14-May-2021 09:00 AM	Bid Submission End Date	24-May-2021 12:00 PM

Tender Documents

NIT Document	S.No	Document Name	Description	Document Size (in KB)	
	1	Tendernotice_1.pdf	Supply of Liquid Argon for Unit 1 and Unit II Fixed Facility of LAR system and Erection and Commissioning of LAR system at Unit I and II	743.98	
Work Item Documents	S.No	Document Type	Document Name	Description	Document Size (in KB)
	1	BOQ	BOQ_3952.xls	Price Bid BOQ Package basis evaluation	327.00

Bid Openers List

S.No	Bid Opener Login Id	Bid Opener Name	Certificate Name
1.	ramk@bhel.in	Ramanathan K	K RAMANATHAN
2.	saranyak@bhel.in	Saranya K	SARANYA K
3.	jvkumar@bhel.in	VEERAKUMAR J	J VEERAKUMAR
4.	visvanathan@bhel.in	Visvanathan S	S VISVANATHAN

GeMARPTS Details

GeMARPTS ID	CUI1AI3FG6IO
Description	LIQUID ARGON IN TANKER
Report Initiated On	09-May-2021
Valid Until	08-Jun-2021

Tender Inviting Authority

Name	Dy.Manager/MM/PSS
Address	24 Building,4th floor,High Pressure Boiler Plant, BHEL-Trichy-620014

Tender Creator Details

Created By	Saranya K
Designation	DY MANAGER
Created Date	13-May-2021 07:06 PM

ACCEPTANCE OF GENERAL TERMS AND CONDITIONS BY THE BIDDERS.

Sl. No	DESCRIPTION
1.	Interested bidders / Suppliers shall submit their offer through e-Procurement mode at https://eprocurebhel.co.in Offers in any other mode will not be accepted. For Enterprise Procurement System (EPS) Bidders/Suppliers are requested to follow these steps. <u>REQUIREMENTS</u> 1. Computer with good Internet Connection (Minimum 256 kbps). 2. Operating System should be Windows Vista / Windows 7 and above. 3. Web Browsers: IE 11.0 (32-bit Browser only) & above 4. System Access with Administrator Rights 5. Digital Certificate: To participate in an e-Tender, you need to have a Class-II/III Digital Signature Certificate (DSC) for Signing & Encryption (Required both digital signature certificate: Signing & Encryption) of bids issued by any of the valid Certifying Authorities (approved by Controller of Certifying Authorities) in India. Valid Digital Signature Certificate (DSC) must be installed in a computer system from where you want to access the website. <u>Steps for registration & bidding:</u> For registration & submitting bids, vendors shall follow the link "Bidders Manual Kit" in https://eprocurebhel.co.in. In case of any assistance, please call the following Nos for support: Contact: +91-99420 69052
2.	<u>OPENING OF TENDERS</u> The Part I – Techno-commercial bid would be opened in the e-procurement portal on the Tender opening date. Part II - Price bid of technically and commercially 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 e-procurement portal (Part-II).
3.	Taxes and Duties : All Taxes and Duties payable as extra to the quoted price should be specifically stated in offers along with GST No., HSN Code & Service Accounting Code (SAC) failing which the purchaser will not be liable for payment of such Taxes and Duties. BHEL Trichy GST No. 33AAACB4146P2ZL. Income Tax applicable Any service charges payable towards supervision of E&C, training, performance prove-out etc., will be released after deduction of Income Tax as per Indian Income Tax Act / as per the Govt. of India rules and TDS certificate will be issued by BHEL for such deductions. Applicable service tax on E&C charges will be payable extra. The liability of depositing the same to the Govt. will be of the bidder. Income tax depreciation will be claimed by BHEL

No row shall be left blank. Please indicate NA, in case the item is "not applicable"		Vendor's confirmation
4.	Validity: Validity of the offer should be 90 days from the date of tender opening.	
5.	<u>Evaluation of Bids:</u> <u>Stage-I: Evaluation of Techno-Commercial Bids</u> ➤ Only those Bidders who meet all the requirements as per Pre-Qualification Criteria (Annexure-PQC, Annexure A, Annexure B, Annexure C, Annexure N & Technical Annexure I & II) will be considered for further evaluation. Otherwise offers are liable for rejection. ➤ Then, the Techno-commercial bid of the bidder shall be evaluated for acceptance of technical and commercial terms. ➤ Prior to opening of price bid, BHEL will determine whether each bid is accompanied by required commercial terms & conditions, fulfils the qualifying requirement stated in Bidding Document and compliance to the requirement of the Bidding Document. <u>Stage –II: Evaluation of the Price Bid:</u> The evaluation of tenders will be as follows: ➤ Techno commercially qualified offers only will be considered for price evaluation. ➤ Evaluation of offers shall be on the basis of landed cost (Net cash outflow to BHEL, Trichy i.e. on cumulative L1 value for the entire scope of requirements (Total Net cash outflow to BHEL basis for Fixed facility charges and Mobilisation, Erection & Commissioning charges for both the tanks in Unit-I & Unit-II). ➤ For Cryogenic Vessels and their accessories, if existing rental vessel owner participates in this tender, Erection & Commissioning charges is not applicable for them. ➤ For Cryogenic Vessels and their accessories, if existing rental vessel owner participates in this tender, the cost towards Erection & Commissioning charges will be appropriately loaded by the following method for arriving at Landed Cost to BHEL: "The lowest cost for erection & commissioning charges of the other vendors who have participated in the tender." ➤ The Enquiry quantity will not be split and the Enquiry will be finalized on a single Vendor on Package Basis i.e. The supply of Liquid Argon, Erection & commissioning, rental contract for storage vessels & its accessories will be awarded to a single vendor for the total scope on package basis.	
6.	Terms of Payment: ➤ Purchase Order will be released on the successful bidder. ➤ Rental period will start after issue of Commissioning Certificate by BHEL Trichy. ➤ For Design, Erection and Commissioning charges: 100% payment will be made after 60 days from the date of certification by BHEL Engineer in charge. ➤ For LAR Rental Vessel: Monthly rental charges become payable at the end of each Month after certification by Engineer in charge, BHEL Trichy. Bidder shall submit the rental invoice after each Month. The billing cycle shall be from the date of Commissioning to corresponding date in the subsequent month. 100% monthly rental payment will be made after 60 days from the date of certification by BHEL Engineer in charge. ➤ For LAR Supply: After 45 days from the date of Receipt and Acceptance of the material at BHEL Trichy. ➤ Supplier shall mention their GSTN registration number in all their invoices and invoices shall be in the format as specified/prescribed under GST laws for processing the bills on monthly basis. ➤ Any deviation in the above payment terms, any other conditions in Payment terms or any other payment terms will not be accepted and offers will not be considered.	

7.	Liquidated damages (LD): LAR RENTAL VESSEL: If the contractor fails to complete the service/work as per terms & conditions of the order within the delivery schedule, any breakdown in the storage and supply system should be attended within 24 Hrs. of reporting. In case, if there is any delay beyond 24 Hrs. or reporting, a sum of Rs.300/- per Hour will be recovered from the running bills in the Corresponding month. LAR SUPPLY: In case of staggered delivery schedule, if the Supplier fails to deliver the quantity of any line item of the P.O within the period specified in that line item, Purchaser shall deduct Liquidated Damages, 0.5% of the undelivered portion per week delay or part thereof subject to maximum of 10% of the total order value of the supply portion. LAR VESSEL ERECTION AND COMMISSIONING: If the contractor fails to complete the Mobilisation, Erection and Commissioning of a particular tank as per terms & conditions of the order within the delivery schedule, Purchaser shall deduct Liquidated Damages, 0.5% per Day subject to Maximum of 10% of the Mobilisation, Erection and Commissioning Charges of that tank. Under GST regime, BHEL has to discharge GST liability on LD recovered from suppliers/contractors. Hence applicable GST shall also be recoverable from suppliers/contractors on LD amount. For this Debit note will be issued by BHEL indicating the respective supply invoice number.	
8.	Risk Purchase: Alternatively, the purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the time stipulated as aforesaid or if the same were not available, the best and the nearest available substitutes therefor. The supplier shall be liable for any loss, which the purchaser may sustain by reason of such risk purchases in addition to penalty at the rate mentioned in LD clause above. a) In the event of any successful Tenderer's failure to fulfil any of the tender / Contract obligations as per Contract / Agreement, BHEL may purchase from the alternate vendor and get it completed to meet the BHEL requirement and additional expenditure, if any, including consequential cost viz., demurrage etc., will be fully recovered from the supplier who failed to supply the items with the due date. b) The decision of BHEL with regard to the actual losses / consequential expenditure incurred by BHEL shall be final and binding on the supplier. The value under Risk purchase clause shall be calculated as follows: Risk & Cost Amount= [(A-B) + (A x H/100)] Where, A= Value of Balance scope of Work/ Supply (*) as per rates of new contract B= Value of Balance scope of Work/ Supply (*) as per rates of old contract being paid to the contractor/ supplier at the time of termination of contract i.e. inclusive of PVC & ORC, if any. H = Overhead Factor shall be taken as 5 In case (A-B) is less than 0 (zero), value of (A-B) shall be taken as 0 (zero). *(Balance scope of work/ supply) Difference of Tendered/Contract Quantities and Executed Quantities as on the date of issue of Letter for 'Termination of PO/Contract', shall be taken as balance scope of Supply for calculating risk & cost amount.	

9.	GST: For supplies after implementation of New GST Return System i.e. from 01/10/2019, the following conditions will apply and supplier shall fully comply to the below points. Indigenous suppliers: - Response to Tenders for Indigenous supplier will be entertained only if the vendor has a valid GST registration No (GSTIN) which should be clearly mentioned in the offer. If the dealer is exempted from GST registration, a declaration with due supporting documents need to be furnished for considering the offer. Dealers under composition scheme should declare that he is a composition dealer supported by the screen shot taken from GST portal. The dealer has to submit necessary documents if there is any change in status under GST. - Supplier shall mention their GSTIN in all their invoices (incl. credit Notes, Debit Notes) and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No. which is linked/uploaded in GSTN network shall be clearly indicated), Billed to party (with GSTIN) & Shipped to party details, item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, Place of Supply etc. - All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code). - Invoices will be processed only upon completion of statutory requirement and further subject to following: - Vendor declaring such invoice in Form GST ANX-1 - Receipt of Goods or Services and Tax invoice by BHEL - As the continuous uploading of tax invoices in GSTN portal (in GST ANX-1) is available for all (i.e. both Small & Large) tax payers under proposed new GST Return System, all invoices raised on BHEL may be uploaded immediately in GST portal on despatch of material /rendering of services. The supplier shall ensure availability of Invoice in GST portal before submission of invoice to BHEL. Invoices will be admitted by BHEL only if the invoices are available in GSTN portal (in BHEL's GST ANX-2). - In case of discrepancy in the data uploaded by the supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note or debit note (details also to be uploaded in GSTN portal) for the shortages or rejections in the supplies or additional claims, within the calendar month informed by BHEL. - In cases where invoice details have been uploaded by the vendor but failed to remit the GST amount to GST Department (Form PMT-08 or Form GST RET-01 to be submitted) within stipulated time, then GST paid on the invoices pertaining to the month for which GST return not filed by the vendor will be recovered from the vendor along with the applicable interest (currently 24% p.a) and all subsequent bills of the vendor will not be processed till filing of the GST return by the vendor - In case GST credit is denied to BHEL due to non-receipt or delayed receipt of goods and/ or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount claimed in the invoice shall be disallowed to the vendor. - Where any GST liability arising on BHEL under Reverse Charge (RCM), the vendor has to submit the invoices to BHEL well within the timeline prescribed in GST Law, to enable BHEL to discharge the GST liability. If there is a delay in submission of invoice by the vendor resulting in delayed payment of GST by BHEL along with Interest, then such Interest payable or paid shall be recovered from the vendor. - Under GST regime, BHEL has to discharge GST liability on LD recovered from suppliers/contracts. Hence applicable GST shall also be recoverable from suppliers/contractors on LD amount. For this Tax Invoice will be issued by BHEL indicating the respective supply invoice number. - GST TDS will be deducted as per Section 51 of CGST Act 2017 and in line with Notification 50/2018 – Central Tax dated 13.09.2018. GST TDS certificate which will be generated in GST portal subsequent to vendor accepting the TDS deduction in the GST portal, will be issued to the vendor	
10.	Force Majeure clause: If, at any time during the continuance of this Contract the performance in whole or in part by either party of any obligations under this Contract shall be prevented or delayed by reason of any War, Hostile acts of the public enemy Civil Commotion, Epidemics, or Acts of God (Floods, Storm/Cyclone, Hurricane, Earth Quake etc.) then provided notice of happening of any such event is given by either party to other within 7 days from the date of occurrence therefor neither party shall by reason of such event be entitled to terminate this Contract nor shall either party have any claim for damages against the other in respect of such non-performance and delay in performance under the Contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist. If the performance in whole or part of any obligation under this Contract is prevented or delayed by reason of any such event, claims for extension of time shall be granted for periods considered reasonable by BHEL subject to prompt notification by the Contractor.	

11.	Delivery Schedule: Erection and Commissioning activities of Vessels and its accessories including CCOE approval should be completed within one month from the date of PO. The supply of LAR is "As and when required by BHEL". Intimation will be given 48 Hrs. in advance for the LAR requirement.	
12.	BHEL will consider the ranking after the loading is applied as referred above.	
13.	Special Provisions for Micro and Small Enterprises (MSE) bidders registered as per MSME act: i. Payments for MSE Indigenous vendors will be as MSMED Act, 2006. ii. 25% of the tendered quantity is earmarked for MSE Vendors (Manufacturers only and not for the Traders/Dealers of Service Category - Vide Office Memorandum circular of Micro, Small & Medium Enterprises, Clause – i, dt: 09.02.17) in this tender. If L1 offer is from a Micro / Small enterprise, this provision is not applicable. iii. Out of the 25% tendered quantity reserved for MSE suppliers, 6.25% shall be earmarked for procurement from MSE owned by SC / ST entrepreneurs. In event of failure of such Micro and Small enterprises to participate in the tender process or meet the tender requirements and the L1 price, the 6.25% sub-target for procurement ear-marked MSE owned by SC / ST entrepreneurs shall be met with other MSE enterprise/s. iv. Out of the 25% tendered quantity reserved for MSE suppliers, 3% shall be earmarked for procurement from MSE owned by women entrepreneurs. In event of failure of such Micro and Small enterprises to participate in the tender process or meet the tender requirements and the L1 price, the 3% sub-target for procurement ear-marked MSE owned by women entrepreneurs shall be met with other MSE enterprise/s. v) 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. iv) MSE vendor should submit Udyam Registration certificate for considering them in MSE category as per Gazette Notification no. S.O. 2119(E) dated 26.06.2020 issued by Ministry of MSME v) Date to be reckoned for determining the deemed validity will be the last date of technical bid submission. Non submission of such documents will lead to consideration of their bids at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier till the supplier submits these documents. This provision for MSE will apply subject to the condition that the participating MSE meets the tender requirements. vi) In case of any change in the MSE status of the bidder, it shall be the responsibility of the bidder to notify the change as a part of the bid document. If at a later date it comes to the knowledge of BHEL, that the change in the status has not been intimated by the bidder and the order is obtained under the premise of an MSE then BHEL would cancel the pending order against this tender and take necessary steps for suspension of the business dealing with the bidder as per the procurement policy of BHEL. vii) In case after the bid opening it is seen that no MSE has become L1, then depending on the nature of the item, if it is not possible to split the tendered items / quantities on account of reasons like customer contract requirements of supplying one make for a given project or technical reasons like tendered items being a system etc., and in case MSE vendor participating in the tender quotes within the price band of L1 + 15%, they will be allowed to supply the entire quantity subject to acceptance of L1 price by MSE vendor. Counter offer for entire quantity will be made in the order of commercial ranking of the MSE vendors within the price band of L1 + 15%. In case of counter offering rate has not been accepted by MSE vendors or L1 vendor is MSE, entire quantity will be ordered on L1 vendor.	

14.	PREFERENCE TO MAKE IN INDIA: For this procurement, Public Procurement (Preference to Make in India), order 2017 dated 15.06.2017 & 28.05.2018 & 04.06.2020 & 16.09.2020 (as applicable) and subsequent orders issued by the respective Nodal ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/PO/WO against this NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable. Default margin of purchase preference shall be 20% to local suppliers with default minimum local content of 50%. For this procurement, the local content to categorize a supplier as a Class I local supplier/ Class II local supplier/ Non-Local supplier and purchase preference to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 04.06.2020 & 16.09.2020 (as applicable) issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part_II bids against this NIT. Annexure C (Self-Declaration Format) is to be filled in and duly signed by the supplier with rubber stamp affixed along with the offer.	
15.	FRAUD PREVENTION POLICY: The Bidder along with its associate / collaborators / 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 fraud or suspected fraud as soon as it comes to their notice". Fraud Prevention policy and List of Nodal Officers shall be hosted on BHEL website, vendor portals of Units / Regions intranet.	
16.	SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS / CONTRACTORS: Penal action can be initiated on the suppliers / Contractors in line with extant "Guidelines for Suspension of Business Dealings with Suppliers / Contractors". The abridged version of extant 'Guidelines for suspension of business dealings with suppliers / contractors' has been uploaded on http://www.bhel.com on "supplier registration page".	
17.	INDEMNITY: The Contractor shall have to indemnify BHEL against all claims for injury or damage to any person or property caused by his negligence or negligence of his employees whilst in BHEL premises / sites. The Contractor shall indemnify the company against all payments by way of compensation or otherwise which the company may be called upon to make under the provisions of the applicable Acts to any Contract employee as aforesaid, and any cost incurred by the company in connection with any claim preferred by such Contract employee and or against all actions, claims and demands whatsoever in respect thereof or in respect of any loss, injury or damages whatsoever to any third person arising out of or occasioned by the negligent, imperfect or improper performance of this Contract by the Contractor, their employee servants or agents. The Contractor approved and operating under the Tender, Works Contracts shall further indemnify BHEL against: - (i) Observance of Labor & Industrial Laws. (ii) All claims by way of compensation and all other types of unforeseen claims, which may arise in the course of Contract. (iii) Documentary compliance relating to billing.	
18.	INSURANCE POLICIES The Contractor shall at his own cost take insurance and maintain at all times until the close out of the Contract, insurance policies in respect of equipment (vessels and its accessories) and workmen engaged by him for providing services under this Contract.	
19.	COMPLIANCE TO STATUTORY PROVISIONS AND RULES: (AS APPLICABLE) The Contractor shall confirm to the provisions of any statute relating to the work and regulations and Bye-Laws of any local authority. The Contractor shall be bound to give all notices required by statute	

regulations or By-Laws as aforesaid and to pay all fees and taxes payable to any authority in respect thereof. The Contractor shall in respect of Personnel employed by him either directly or through sub-Contractors, comply with or cause to be complied with following statutory provisions and rules and in regard to all matters provided therein. - The Contract Labor (Regulation & Abolition) Act 1970 and the related Rules. - The minimum wages Act 1948 and the related rules - The payment of wages Act 1936 and the related rules. - The Factories Act 1948 and related Tamil Nadu Rules. - The Employees' Provident Fund & Miscellaneous provisions Act 1952. - The Employees State Insurance Act 1948. - Workmen Compensation Act 1923 - Payment of Bonus Act 1965 - Maternity Benefit Act, 1961 - Payment of Gratuity Act, 1972 - Inter-State Migrant Workmen (Regulation of Employment & Conditions of Service) Act, 1979 - Equal Remuneration Act, 1976 - Industrial Employment (Standing Order) Act, 1960 (In case of engaging 100 or more Personnel) - The Industrial Disputes Act 1947 - The Building and other Construction Workers Welfare Cess Act. 1996 And any other law, or modifications to the above or to the rules made there under from time to time. The age of the contract workers deployed should be above 18 and below 50 years. If the Contractor employs more than twenty employees, he shall obtain License to this effect from the Factory Inspectorate and renew the same periodically. Vendor shall have their own PF and ESI Codes and comply with the relevant Acts. Contractor shall maintain proper records of PF, EDLI, Pension, ESI contribution, administrative charges etc., wherever applicable and shall produce proof of deductions as well as remittances. Contractor shall issue wage slips to his employees. Indicative lists as follows, which shall be maintained neatly, completely and legibly for inspection by various statutory authorities and the company Officials even at short notice: - Form XIII - Register of Workmen employed by contractor (Rule 75) - Form XIV -- Employment card issued by contractor (rule 76) - Form XVI Muster Roll (Rule 78(1) (a) (i) - Form XVII - Register of Wages (Rule 78(1) (a) (i) - Form XVIII - Register of wages-cum Muster Roll (in case of weekly Payment) - Form XIX - Wage Slip (Rule 78) (b) - Form XX - Register of deduction for damages of loss (Rule (78) (1) (a) (ii) - Form XXI - Register of files (Rule 78) (1) (a) (ii) - Form XXII - Register of advance (Rule 78)(1) (a) (ii) - Form XXIII - Register of overtime (Rule 78) (1) (a) (iii) - Form XXIV - Return to be sent by the contractor to licensing officer (Rule 82) - Any other records / registers required to be maintained by the contractors under statutory provisions applicable to him. Contractor shall furnish proper Returns to the concerned statutory authorities and provide a copy of the same to BHEL.	
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	Contractor shall be solely responsible for non-payment / delayed payment of wages / DA, contributions under EPF & MP Act, ESI Act etc. In case, the contractor fails to make payment of wages to his employees or remittance of contribution to the concerned authorities & a claim is made against BHEL for what so ever reason, the security deposit /other dues/ running bills under the contract can be utilized by BHEL to discharge the liability of the contractor. Contractor shall indemnify BHEL against all claims and losses if it suffers under various labour laws, statutes or any civil or criminal law in connection with employees deployed by him. The liability for any compensation on account of injury sustained by an employee of the contractor will be exclusively that of the contractor, as BHEL is not the employer for him. BHEL shall not be responsible for any losses, damages to the contractor or to his employees Payment of bonus under the Payment of Bonus Act, payment of gratuity under the Gratuity Act, and retrenchment compensation under ID Act will be the sole responsibility of the contractors. Contractor shall be responsible for making payment of wages before expiry of 7 (seven) days from the last day of wage period and to ensure disbursement of wages in the presence of the representative from BHEL Contractor shall obtain license under CL (R&A) Act, 1970 The contract shall ensure that entry and exit of labour shall be as per the procedure laid down by the BHEL. Entry permits of the labour are to be issued by the contractor with contractor's monogram. Every contractor shall submit a notice regarding commencement and completion of work in Form-VI A&B (Rule 25 (viii) & 81 (3) to BHEL, for forwarding the same to Labour Department. The contractor shall attend to all inspections notified / conducted by the BHEL, Labour department, P.F authorities, Factory Inspectors, ESI inspectors, Medical Authorities or any other such authorities The contractor shall have full control over his employees including the right to appoint, determine service conditions, discipline, discharge, dismissal etc. The Contractor shall be solely responsible for any claim arising out of employment or termination of employment of his employees and for their statutory payments. Contractor should ensure that workmen follow all rules and regulations related to safety and security.	
20.	LABOUR LICENSE:- (AS APPLICABLE) The Contractor employing 20 or more crew members shall obtain a license from the authorities (The Deputy Chief Inspector of Factories / Assistant Commissioner of Labour as the case may be). This license shall be amended and / or renewed wherever there is an increase in the crew members employed by him or in the event of Contract being extended or renewed. The Contractor shall inform the license number to the BHEL Management before taking up the work.	
21.	COVERAGE UNDER THE ESI / PF ACT / MISCELLANEOUS PROVISIONS ACT (AS APPLICABLE) The Contractor shall ensure that all his personnel are covered under the Employee's Sate Insurance Act and produce to BHEL such Registration number / Enrolment Number before executing the Contract work. The Contractor shall regularly pay the amount by contribution i.e. employer's contribution as well as employee's contribution in pursuance of the above scheme as fixed from time to time. The Contractor shall ensure that his contract personnel are covered the PF & miscellaneous provisions Act 1952 and accordingly produce to the BHEL Management the Registration / Enrolment number before awarding of Contract work. The Contractor shall within seven days of the close of every month submit to BHEL a statement showing the amount of contribution payable / paid for employees engaged by him or through him and shall also furnish to BHEL such information, as Principal Employer is required to furnish under the provisions of the ESI Act PF as well as the schemes made there under to the authorities concerned. Whenever any sum of money is found to be recoverable from or payable by the Contractor, the same shall be deducted from any sum that may be due or which at any time thereafter may become due to the Contractor under this Contract or under any other Contract or from his security deposit. In case the recoveries are not sufficient to satisfy the claims, the Contractor shall pay the balance thereof on demand.	

	In case any recoveries are made under this clause from the security deposit, the contractor shall immediately thereafter pay such further sum as may be required to replenish the shortage caused by such recoveries in the amount of security deposit. In case of noncompliance of the provisions of the Acts and in case BHEL having complied with the same BHEL will be entitled to recover the same from the Contractor / sub-Contractor. The Contractor shall abide by all the labour and other laws applicable to Contract labour / worker under this Contract and shall at all-time keep BHEL Indemnified against all losses, claims, prosecutions under any law. Non exercise of any of the powers or rights available under any law, shall not in any way operate as waiver thereof.	
22.	WAGES (AS APPLICABLE) The Minimum Wages as prescribed by the State Government from time to time and additional payment as per BHEL circular should be paid to the Contract Workers and the Wage and Attendance Registers should be produced to Welfare Section every month. As per BHEL, HR-Welfare circular, additional wages @ Rs.3200/3700/4100 for unskilled/semiskilled/skilled workers respectively, are to be paid to labours , over and above minimum wages declared by Tamil Nadu Government. The Contractor shall remit PF for his workers for the same amount which he paid as total wages to the employees on monthly basis. He has to remit 13.61% from his side and deduct 12% of Wages from the monthly wages of the employees and a total of 25.61% of monthly wages should be remitted as PF w.r.t each employee. ESI Payment shall be at the rate of 6.5% of monthly wages of the employee. This comprises the contribution at 1.75% of wages from the employee and 4.75% of wages from the Contractor. Contractor shall make PF, ESI contributions as per applicable laws in force and the statutory guidelines issued from time to time by the Government of India. The Contractor shall ensure to disburse the wages to his workers on the 7th day of every consecutive month in the presence of such authorized representatives of BHEL Management. "The contractor has to disburse the salary/wages for their workmen and the relevant Bank statement/proof for Bank payment should also be produced along with PF and ESI challans to Welfare Section every month." A certificate of payment shall be furnished in duplicate by the Contractor to the Engineer in charge for each month. The Contractor shall inform the BHEL Management every month the details of Contract labour engaged for each Contract in the following forms:- - Serial Number. - Location. - Period of Work. - No. of Contract labour engaged during the month. - No. of days worked. - No. of Man – days worked. - Wages paid to his workers. The above statement shall be furnished to BHEL Management at the end of every month.	
23.	SAFETY CONDITIONS & GUIDELINES (AS APPLICABLE) The Factories' Act, 1948: Section 32: Floors, stairs and means of access shall be properly maintained to ensure safety. Every place of working should have safe access. When any person has to work at a height from which he is likely to fall, provision shall be made, so far as is reasonably practicable, by fencing or otherwise, to ensure the safety of person so working. Tamil Nadu Factories' Rules, 1950	

	Rule 55: Hoists and Lifts & Rule 55A. Lifting machines, chains, ropes and lifting tackles: Shall be maintained in good condition, thoroughly inspected and examined by competent persons and records to be maintained. Rule 57: Excessive Weights: No person shall, unaided by another person, lift, carry or move by hand or on head, any material, article, tool or appliance exceeding the maximum limit in weight set out in the schedule (50 kg for adult male and 30 kg for adult female). Rule 61E: Machinery and plant: No machinery, plant or equipment shall be constructed, situated, operated or maintained in any factory in such a manner as to cause risk of bodily injury. Rule 61F: Methods of Work: No process or work shall be carried on in any factory in such a manner as to cause risk of bodily injury. Rule 61G: Stacking and storing of materials etc.: No materials or equipment shall be stacked or stored in such a manner as to cause risk of bodily injury. Rule 61-K. Examination of eye sight of certain workers: No person shall be employed to operate a crane or to give signals to crane operator unless his eye sight and colour vision have been examined and declared fit by a qualified ophthalmologist. Rule 61-N and Rule 61- O: Workers to be provided with Personal Protective equipment suitable for the hazards and should be of good quality / have certification by Indian Standard Institute. Note: For the type of work envisaged, personal protective equipment such as helmet, safety shoes and gloves are essential. Rule 96: Notification of accidents: Shall be complied with as required in the Factories Act (Section 88 and Section 88A) and Tamil Nadu Factories Rules.	
24.	Procedures: (AS APPLICABLE) 1. Smoking, audio-playing (mobile phone, iPod, inbuilt music systems etc. in the vehicles.) are banned within the factory premises. 2. Moving to unrelated areas must be strictly avoided by the contract employees entering to the other areas only with knowledge of concerned department. 3. Procedure (SOP) given from user departments are to be adopted for all operations and maintenance — e.g. tank cleaning, FT plant maintenance, Sewage maintenance, Oxidation pond maintenance, operation of substation, transformer maintenance etc. User departments agreed to generate procedures in case if not available already (Snake catching, Monkey catching, Honey comb removal etc.). 4. Adequate precautions to be taken while waste removal like paint sludge removal, chromic sludge removal, phenol and tar removal by contract employees. 5. The contractor should clearly inform the hazards involved to the employees MSDS to be displayed. 6. The contract employees involved in tank cleaning, ET plant maintenance, Oxidation pond maintenance should know swimming and strict monitoring should be ensured. 7. Line clearance (LOTO) procedure to be followed during bulb changing, electrical substation maintenance, any maintenance, furnace instrumentation etc. 8. Work permits to be obtained for jobs like work at height, excavation, blasting, hot work, pipe line work, roof light maintenance, work at confined space like cellar. 9. Specified Speed limit 20 kmph to be followed by all the vehicles entered in factory premises. 10. Procedure given by user departments for spray painting, brush painting and dip painting should be followed. Paint sludge removal, empty tin removals etc. are to be periodically carried out and sent to disposal stores.	
25.	Equipment: (AS APPLICABLE) 1. All the equipment used by the contractors are to be in good condition with all safety provisions and to be checked and certified by the department officials. 2. Electrical supply to be taken through the M&S department. Unauthorized connections taken any will be viewed seriously.	

	3. Welding machines are to be used with proper earth connection. Cables should be in good condition. Insulation to be checked regularly and maintained. 4. Qualified electricians are only to be used for giving connections. 5. Good quality Electrical equipment and tools are to be used with valid certificates. These certificates must be shown on demand. 6. For portable electrical equipment supply to be taken using plugs points. 7. Wires / cables extension box should be in good condition. 8. Proper earthing should be maintained. 9. Mobile Crane, Fork lift, Trailers; JCB etc. should be in good condition with specified capacity and should not cause any untoward incident while in use. 10. Fitness Certificate issued by competent person approved by Govt. authorities, insurance and emission certificate etc. should be in possession and should be shown on demand.	
26.	Safety Equipment: (AS APPLICABLE) Contract employees must wear the PPEs relevant to the nature of work in addition to the safety shoes. 1. Welding - Welding Shield and goggles 2. Gas cutting - Aprons, Gas cutting goggles 3. Painting - PVC gloves, PVC apron, respirators 4. Electrical work - Electrical Resistance gloves, gum boots (during rain) 5. Work near hot furnace - Heat resistant gloves Sr Apron 6. Glass wool related works - Respirators, Barrier Cream 7. Slag removal, cleaning and grinding work - Goggles / dust respirators. 8. Handling of rough and sharp surfaced objects - Leather gloves 9. Concrete preparation - Gum boots Electrical 10. Work at height - Rubber gloves, Safety Belt, fall arrestors, Life line Rope.	
27.	NOTICES OF ACCIDENTS (AS APPLICABLE) In the event of an accident the Contractor shall be required to fill injury report and submit to the Engineer In charge immediately and ensure compliance of ESI / Workmen's Compensation of accident as per the Act. The Contractor shall get the Contract personnel engaged by him insured under workmen's compensation policy from any Insurance company in India before actually starting the work. The Insurance Coverage should be for the entire period of Contract. The Contractor shall comply with the provisions of the Workmen's Compensation Act 1923. (This should be read in connection with the provisions of ESI Act.)	
28.	TERMINATION OF CONTRACT ON DEATH OF CONTRACTOR (AS APPLICABLE) Without prejudice to any of the rights or remedies under this Contract, if the Contractor dies, or if the firm is dissolved or the company is liquidated BHEL shall have the option of terminating the Contract without compensation to the Contractor.	
29.	SPECIAL POWER TO TERMINATION (AS APPLICABLE) If at any time after the award of Contract, BHEL shall for any reason whatsoever not require whole or any part of the work to be carried out the BHEL, Trichy, shall give notice in writing of the fact to the Contractor who shall have no claim to any payment of compensation or otherwise howsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of the fore-closing of the work.	
30.	RECOVERY FROM CONTRACTOR:- (AS APPLICABLE) Whenever under the Contract, any sum of money, shall be recoverable from or payable by the Contractors, the same may be deducted from or any sum. then due or which at any time thereafter may become due to Contractor under the Contract or under any other Contract with BHEL or from his Security Deposit or he shall pay the claim on demand.	

31.	ARBITRATION All disputes between the parties to the Contract, arising out-of or relating to the Contract, other than those for which the decision of the BHEL, Trichy, or Accepting Officer or any other person is by the Contract expressed to be final and conclusive shall after written notice by either party to the Contract to the other party be referred to the sole Arbitration of Executive Director or other Officers of BHEL appointed as Arbitrator, by the Executive Director of BHEL in his sole discretion. Unless the parties otherwise agree, such reference shall not take place until after the completion, alleged completion or abandonment of the work of the determination of the Contract. The venue of Arbitration shall be such a place or places as may be fixed by the Arbitrator in his sole discretion. The award of the Arbitrator shall be final, conclusive and binding on both parties to the Contract.	
32.	JURISDICTION In case of any suit or other legal proceedings arising under or relating to this Contract, the courts at Trichy, Tamil Nadu only shall have the Jurisdiction and is only after exhausting the, Arbitration	
33.	Amendment of bidding documents BHEL Trichy may at its sole discretion amend the Bidding Documents at any time prior to the deadline for submission of bids. However in case of such amendment, the bid submission date may be extended at the discretion of BHEL Trichy. Amendments made prior to submission of bid will be provided in the form of addenda / corrigendum to the bidding documents and will be updated in eprocurement portal and will also be posted on the BHEL website (http://www.bhel.com) in tender notification section. Hence the bidders are requested to visit the web pages regularly for updates.	
34.	General Conditions - Point by point confirmation for the Technical Specification enclosed to be provided. Offers received without confirmation to our specification will be liable for rejection. If needed additional sheets shall be used. - Incomplete offers will not be considered for further processing - Fixed price: Prices quoted by the bidder shall be fixed and not subject to any escalation whatsoever during the period of bid validity and execution of the Purchase Order. A bid submitted with an adjustable price will be treated as non - responsive and rejected - BHEL reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at any of BHEL projects / units. - BHEL shall be at liberty to reject or accept any tender, part or in full, at their own discretion and any such action is not liable for any question or claim against BHEL. - All Equipments / Services including Personnel for carrying out the installation and commissioning of the Equipment shall be arranged by the bidder. If any Services is availed from BHEL, it is only on chargeable basis unless otherwise specified. - The Bidder shall arrange for boarding, lodging and logistics of onsite commissioning engineer and operations engineers. - Before Tendering the tenderers are advised to inspect the site of work and its environments and be well acquainted with the actual working and other relevant conditions, position of materials and labour. Tenderers are also requested to go through General -Terms & conditions, Special -Terms & conditions of Contract, Scope of work, Technical Terms & Conditions, drawings and specifications and all other documents which form part of the contract to be entered into. - While quoting the rates the tenderer is advised to take into account all factors including any fluctuations in market rates. No claim will be entertained on this account after acceptance of the tender or during the execution of the contract. - Conditional Tenders, Tenders containing prima-facie absurd rates and amounts, Tenders which are incomplete or otherwise considered defective and Tenders not in accordance with the Tender conditions herein contained and the Tenders not in original ARE LIABLE TO BE REJECTED. If a Bidder deliberately gives wrong information in his Tender or creates conditions favourable for the acceptance of his Tender, BHEL WILL REJECT SUCH TENDER AT ANY STAGE.	

For any queries / clarifications the bidders may contact us through our PHONE NO. +91 431 2574737 or through e-mail <pramila@bhel.in>

NOTE:-

- a) Your specific acceptance to our Payment terms, LD clause and 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:

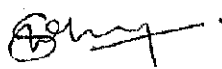
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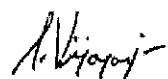
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Signature with date:

ANNEXURES FOR THE PR;

PRE-QUALIFICATION CETERIA		
	QUALIFICATION CRITERIA	
S.No	Description	Vendor to confirm
1	OEM Vendors who have manufactured and supplied CCOE(PESO) approved cryogenic liquid vessel(LAR/LOX/LIN/LNG) of minimum 10KL capacity. OR Vendors who have installed CCOE(PESO) approved cryogenic liquid vessel(LAR/LOX/LIN/LNG) of minimum 10KL capacity for atleast to one company for which required purchase order /work order copies(2008 or later) are to be submitted along with the offer.	
2	Bidder shall have capacity to meet approximate monthly requirement minimum 20,000 cubic meter Per month for BHEL Trichy-620014 .	
3	BHEL reserves the right to visit the vendor's works if required for verifying the credential furnished by the vendor. In case the information furnished along with the offers is found to be false/incorrect, the offer shall be rejected.	


SHINE MOHAN
Dy. Manager
Maintenance & Services
BHEL, TRICHY - 620 014


S. VIJAYARAJAN
Deputy Manager
Maintenance & Services
BHEL, TRICHY - 620 014

Technical Annexure 1

Supply, Design, Transportation, Erection and Commissioning, Maintenance of one number of Liquid Argon cryogenic storage vessel of Capacity 10 KL / 13 KL at UNIT – I / BHEL /HPBP /TRICHY with all related associated items mentioned below & Supply Liquid Argon Gas Gr - II as per IS 5760 : 1998 / Second Revision reaffirmed 2016/latest with oxygen 4 ppm maximum.

Purpose:

This Liquid Argon is intended for welding purpose.

1 Liquid Argon Cryogenic Vessel specification:

BHEL REQUIREMENT	VENDOR CONFIRMATION
Vacuum Insulated Liquid Argon storage vessel of 10KL/13 KL and with 17 Kg/cm ² MAWP at UNIT – I, BHEL, HPBP –Trichy and the vessel is to be provided with required valves, fittings, gauges, vents, drain, rupture discs, etc., as per the requirements of statutory needs as specified by The Government of India's Petroleum and Explosives Safety Organization (PESO) Chief Controller of Explosives (CCOE) for the operational and maintenance convenient for a period of Two years. Operation pressure shall be 10 Kg / cm ² .	

2 Vessel Associated items:

a) Ambient vaporiser unit with following specification:

BHEL REQUIREMENT	VENDOR CONFIRMATION
Quantity	One Number.
Capacity	200 Nm ³ /hr.
Duty	Continuous duty 24x7 Hrs.
Material	Vendor to specify

b) Argon Pressure Regulating Station – 2 No's with the following specification:

BHEL REQUIREMENT	VENDOR CONFIRMATION
Quantity	2 Numbers. [1 working and 1 standby.]
Flow Rate	Flow rate of pressure regulation station to be 0 - 200 Nm ³ /hr.
Pressure	System shall with stand maximum pressure 17Kg/cm ² (g). Outlet pressure of the pressure regulating station to be 0 to 17 Kg/cm ² (g)
General description	The regulating station shall consist of one working and one standby station with required isolation valves.

Required safety valves with vent line, pressure gauges, non-return valves, drain lines with valves are to be provided in the pressure regulating station.	
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c) Two sets of CO₂ Gas Manifolds for supply of CO₂ gas to Argon – CO₂ Gas mixture unit with the following specification:

BHEL REQUIREMENT		VENDOR CONFIRMATION
Pressure	Manifold is to be suitable for the pressure up to 200 Kg/cm ² (g).	
General Description (For each LAR System)	The manifold system shall be provided with pressure gauges, hoses with end fittings to connect the carbon dioxide gas cylinders, relief valves with vent line and isolation valves.	
	Required supports for installing the manifold and suitable chains for securing the CO ₂ cylinders are to be provided along with the manifold.	
	Suitable CO ₂ heaters at the outlet of each CO ₂ Gas Manifolds.	
For Unit 1	Two sets of 2 x 5 cylinders.	

d) CO₂ Pressure Regulating station with the following specification:

BHEL REQUIREMENT		VENDOR CONFIRMATION
Quantity	Two Numbers (1 working and 1 standby).	
Flow rate	Flow rate of pressure regulation station is 0 - 150 Nm ³ /hr.	
Pressure	Inlet pressure will be maximum 200 Kg/cm ² (g).	
	Outlet pressure is 0 to 30 Kg/cm ² (g).	
General description	The regulating station shall consists of one working and one standby station with required isolation valves.	
	Required CO ₂ filter, safety valves with vent line, pressure gauges, non-return valves, drain lines with valves are to be provided in the pressure regulating station.	

- e) Argon-CO₂ Mixture with gas analyser unit (For Bldg.50 /Unit 1) with the following specification:

BHEL REQUIREMENT		VENDOR CONFIRMATION
Quantity	Two Numbers (1 working and 1 standby).	
Type	Type may be mechanical or electrical.	
Capacity	Capacity of 0 to 2000 SCFH - 1 No. Capacity of 0 to 750 SCFH - 1 No.	
Range	Mixture range of 0 to 20 % of Carbon Dioxide (CO ₂) in Argon.	
Pressure	Outlet pressure of mixture to be 1.5 to 6 Kg/ cm ² and flow rate is 15 to 25 LPM.	
General description	Next to mixing chamber, storage tank shall be required for smooth operation of machine.	

3) Period of contract

a. For vessel Liquid argon vessel and all associated items: Two years

BHEL REQUIREMENT	VENDOR CONFIRMATION
Liquid argon vessel and all associated items should be Erected and Commissioned with appropriate approval from concerned authorities including CCOE and LAR system should be ready to deliver the liquid argon gas for the WELDING MACHINES. The above activities should be completed within One month from date of Purchase order. During the period of erection and commissioning of the system (if applicable), temporary arrangement for supply of argon, provision of CO₂ gas and Argon-CO₂ mixture arrangement with pipelines is to be ensured by the vendor for which no separate additional payment (rental charges) will be made. Payment will be made for supply of liquid argon as per the rate specified in the Purchase order.	

b. Period of contract for Liquid Argon: Two years

BHEL REQUIREMENT	VENDOR CONFIRMATION
Installed LAR system should be ready to deliver the liquid argon gas for the WELDING MACHINE within One month from the date of Purchase order. Delivery as and when required will be intimated by BHEL and the supplier shall dispatch LAR tankers to ensure uninterrupted liquid argon supply for welding machine.	

4) Delivery terms for Liquid Argon:

BHEL REQUIREMENT	VENDOR CONFIRMATION
Supply in Bulk by bidder's / vendor's vehicle and to be decanted into storage vessel installed at our works/BHEL, Trichy. Every supply should accompany its relevant test/purity certificate as per the standard 5760/1998 (second revision) reaffirmed 2016/latest with Oxygen 4 PPM (maximum)/ BHEL requirement. Supplier shall ensure uninterrupted liquid argon supply for welding machines. Bidder shall have license for the storage and transportation of compressed gases in accordance with static and mobile pressure vessels (latest).	
THE CONVERSION FACTOR OF VOLUME OF SUPPLY: 1 KG OF LIQUID ARGON = 0.6169 CUBIC METRES OF LIQUID ARGON	

5) Supplier / Bidder scope:

BHEL REQUIREMENT	VENDOR CONFIRMATION
Civil input details like foundation drawing etc., are to be submitted to BHEL for approval within Three DAYS from date of Purchase order.	
Foundation bolts & nuts, other fasteners required for the erection of equipment shall be provided by the bidder.	
All the necessary license / renewal of license like CCOE & etc., for the installation & operation of Liquid argon vessel and its related associated items shall be in the scope of bidder including all statutory fees.	
The installation of pipelines at the outlet of the ARGON-CO2 mixture unit and safety valves with vent line, non-return valves, pressure gauges, drain line with valve, piping with associated fittings and isolation valves, etc., is in the scope of the supplier / bidder. Hence vendor may visit the site at our complex before submitting offer and quote accordingly. Moreover all the necessary cranes / truck / tools / tackles/ Welding electrodes and man power shall be arranged by the bidder themselves.	

6) Preventive and Breakdown maintenance:

BHEL REQUIREMENT	VENDOR CONFIRMATION
On the occasion of breakdown of the system, the system is to be restored in to normal operation within 24 Hrs from the time of intimation by BHEL for which no separate payment will be made.	
In addition to breakdown maintenance if any, Visit shall be made monthly once for Preventive maintenance checkup and Monthly report should be submitted by the supplier for which no separate payment will be made.	
Required spares for the Preventive maintenance and Breakdown maintenance for ensuring the continuous operation of the total installation is in bidder's scope only.	
Deployed persons during monthly checkup shall take care of liquid argon vessels and all related associated items (both unit 1 and unit 2) for preventative maintenance, monitoring healthiness of welded joints and display board as per CCOE norms, ensuring calibration of all concerned items and any other works required for uninterrupted welding of welding machines related to the LAR Vessel and all related associated items and meeting CCOE requirements.	
Calibration of all concerned items are in scope of the supplier only.	

7) Manuals:

Bidder should provide (3 hard copy + 1 soft copy) of the following documents,

BHEL REQUIREMENT	VENDOR CONFIRMATION
Built process & Instrumentation diagram of LAR vessel	
Do's and Don'ts	
MSDS of the product supplied.	
Standard Operating Procedure of Cryogenic Storage vessel and its associated items.	
Liquid Level gauge calibration chart	
Volume equivalent chart	
CCOE approved certificate	
Tank Test Certificate	
Any other documents if required shall also be submitted with the manual.	
Any other documents related to the vessel should be submitted along with the manual.	

8) Training:

Firm should provide necessary training regarding operation and safety aspects of the Cryogenic equipment/product.

9) BHEL Scope:

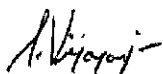
Civil platform, Power supply, Water, Oxy-acetylene gas, LPG, earth pit will be provided by BHEL.

10) Performance:

After commissioning of the LAR storage vessel and its accessories its performance should be witnessed by the Production, Welding Technology Centre and Maintenance & Services.

11) Mobilization charges will be paid to the vendor based on the certification from the user department after commissioning and handing over of the system. (Demobilization charges will not be paid by BHEL).

12) In case of any additional information or clarification, Bidders may visit the site before quoting on all working days between 09.00 to 15.00 Hrs.



S. VIJAYARAJAN
Deputy Manager
Maintenance & Services
BHEL, TRICHY - 620 014

Technical Annexure 2

Supply, Design, Transportation, Erection and Commissioning, Maintenance of one number of Liquid Argon cryogenic storage vessel of Capacity 20 KL / 13KL at UNIT – II / BHEL /HPBP /TRICHY with all related associated items mentioned below & Supply Liquid Argon Gas Gr - II as per IS 5760 : 1998 / Second Revision reaffirmed 2016/latest with oxygen 4 ppm maximum

Purpose:

This Liquid Argon is intended for welding purpose.

1) Liquid Argon Cryogenic Vessel specification:

BHEL REQUIREMENT	VENDOR CONFIRMATION
Vacuum Insulated Liquid Argon storage vessel of 20KL/13 KL and with 17 Kg/cm ² MAWP at UNIT – II, BHEL, HPBP –Trichy and the vessel is to be provided with required valves, fittings, gauges, vents, drain, rupture discs, etc., as per the requirements of statutory needs as specified by The Government of India's Petroleum and Explosives Safety Organization (PESO) Chief Controller of Explosives (CCOE) for the operational and maintenance convenient for a period of Two years. Operation pressure shall be 10 Kg / cm ² .	

2) Vessel Associated items:

a) Ambient vaporiser unit with following specification:

BHEL REQUIREMENT		VENDOR CONFIRMATION
Quantity	One Number.	
Capacity	200 Nm ³ /hr.	
Duty	Continuous duty 24x7 Hrs.	
Material	Vendor to specify	

b) Argon Pressure Regulating Station – 2 No's with the following specification:

BHEL REQUIREMENT		VENDOR CONFIRMATION
Quantity	2 Numbers. [1 working and 1 standby.]	
Flow Rate	Flow rate of pressure regulation station to be 0 - 200 Nm ³ /hr.	
Pressure	System shall with stand maximum pressure 17Kg/cm ² (g). Outlet pressure of the pressure regulating station to be 0 to 17 Kg/cm ² (g)	
General description	The regulating station shall consist of one working and one standby station with required isolation valves.	
	Required safety valves with vent line, pressure gauges, non-return valves, drain lines with valves are to be provided in the pressure regulating station.	

c) Two sets of CO₂ Gas Manifolds for supply of CO₂ gas to Argon – CO₂ Gas mixture unit with the following specification:

BHEL REQUIREMENT		VENDOR CONFIRMATION
Pressure	Manifold is to be suitable for the pressure up to 200 Kg/cm ² (g).	
General Description (For each LAR System)	The manifold system shall be provided with pressure gauges, hoses with end fittings to connect the carbon dioxide gas cylinders, relief valves with vent line and isolation valves.	
	Required supports for installing the manifold and suitable chains for securing the CO ₂ cylinders are to be provided along with the manifold.	
	Suitable CO ₂ heaters at the outlet of each CO ₂ Gas Manifolds.	
For Unit II	Two sets of 2 x 10 cylinders.	

d) CO₂ Pressure Regulating station with the following specification:

BHEL REQUIREMENT		VENDOR CONFIRMATION
Quantity	Two Numbers (1 working and 1 standby).	
Flow rate	Flow rate of pressure regulation station is 0 - 150 Nm ³ /hr.	
Pressure	Inlet pressure will be maximum 200 Kg/cm ² (g).	
	Outlet pressure is 0 to 30 Kg/cm ² (g).	

General description	The regulating station shall consists of one working and one standby station with required isolation valves.	
	Required CO ₂ filter, safety valves with vent line, pressure gauges, non-return valves, drain lines with valves are to be provided in the pressure regulating station.	

e) Argon-CO₂ Mixture with gas analyser unit (For Unit-II) with the following specification:

BHEL REQUIREMENT		VENDOR CONFIRMATION
Quantity	Three Numbers (2 working and 1 standby).	
Type	Type may be mechanical or electrical.	
Capacity	Capacity of 0 to 2000 SCFH - 2 No. Capacity of 0 to 750 SCFH - 1 No.	
Range	Mixture range of 0 to 20 % of Carbon Dioxide (CO ₂) in Argon.	
Pressure	Outlet pressure of mixture to be 1.5 to 6 Kg/ cm ² and flow rate is 15 to 25 LPM.	
General description	Next to mixing chamber storage tank shall be required for smooth operation of machine.	

3) Period of contract

a. For vessel Liquid argon vessel and all associated items: Two years

BHEL REQUIREMENT	VENDOR CONFIRMATION
Liquid argon vessel and all associated items should be Erected and Commissioned with appropriate approval from concerned authorities including CCOE and LAR system should be ready to deliver the liquid argon gas for the WELDING MACHINES. The above activities should be completed within One month from date of Purchase order. During the period of erection and commissioning of the system (if applicable), temporary arrangement for supply of argon, provision of CO₂ gas and Argon-CO₂ mixture arrangement with pipelines is to be ensured by the vendor for which no separate additional payment (rental charges) will be made. Payment will be made for supply of liquid argon as per the rate specified in the Purchase order.	

b. Period of contract for Liquid Argon: Two years

BHEL REQUIREMENT	VENDOR CONFIRMATION
Installed LAR system should be ready to deliver the liquid argon gas for the WELDING MACHINE within One month from the date of Purchase order. Delivery as and when required will be intimated by BHEL and the supplier shall dispatch LAR tankers to ensure uninterrupted liquid argon supply for welding machine.	

4) Delivery terms for Liquid Argon:

BHEL REQUIREMENT	VENDOR CONFIRMATION
Supply in Bulk by bidder's / vendor's vehicle and to be decanted into storage vessel installed at our works/BHEL, Trichy. Every supply should accompany its relevant test/purity certificate as per the standard 5760/1998 (second revision) reaffirmed 2016/latest with Oxygen 4 PPM (maximum)/ BHEL requirement. Supplier shall ensure uninterrupted liquid argon supply for welding machines. Bidder shall have license for the storage and transportation of compressed gases in accordance with static and mobile pressure vessels (latest).	
THE CONVERSION FACTOR OF VOLUME OF SUPPLY: 1 KG OF LIQUID ARGON = 0.6169 CUBIC METRES OF LIQUID ARGON	

5) Supplier / Bidder scope:

BHEL REQUIREMENT	VENDOR CONFIRMATION
Civil input details like foundation drawing etc., are to be submitted to BHEL for approval within Three DAYS from date of Purchase order.	
Foundation bolts & nuts, other fasteners required for the erection of equipment shall be provided by the bidder.	
All the necessary license / renewal of license like CCOE & etc., for the installation & operation of Liquid argon vessel and its related associated items shall be in the scope of bidder including all statutory fees.	
The installation of pipelines at the outlet of the ARGON-CO2 mixture unit and safety valves with vent line, non-return valves, pressure gauges, drain line with valve, piping with associated fittings and isolation valves, etc., is in the scope of the supplier / bidder. Hence vendor may visit the site at our complex before submitting offer and quote accordingly. Moreover all the necessary cranes / truck / tools / tackles/ Welding electrodes and man power shall be arranged by the bidder themselves.	

6) Preventive and Breakdown maintenance:

BHEL REQUIREMENT	VENDOR CONFIRMATION
On the occasion of breakdown of the system, the system is to be restored in to normal operation within 24 Hrs from the time of intimation by BHEL for which no separate payment will be made.	
In addition to breakdown maintenance if any, Visit shall be made monthly once for Preventive maintenance checkup and Monthly report should be submitted by the supplier for which no separate payment will be made.	
Required spares for the Preventive maintenance and Breakdown maintenance for ensuring the continuous operation of the total installation is in bidder's scope only.	
Deployed persons during monthly checkup shall take care of liquid argon vessels and all related associated items (both unit 1 and unit 2) for preventative maintenance, monitoring healthiness of welded joints and display board as per CCOE norms, ensuring calibration of all concerned items and any other works required for uninterrupted welding of welding machines related to the LAR Vessel and all related associated items and meeting CCOE requirements.	
Calibration of all concerned items are in scope of the supplier only.	

7) Manuals:

Bidder should provide (3 hard copy + 1 soft copy) of the following documents,

BHEL REQUIREMENT	VENDOR CONFIRMATION
Built process & Instrumentation diagram of LAR vessel	
Do's and Don'ts	
MSDS of the product supplied.	
Standard Operating Procedure of Cryogenic Storage vessel and its associated items.	
Liquid Level gauge calibration chart	
Volume equivalent chart	
CCOE approved certificate	
Tank Test Certificate	
Any other documents if required shall also be submitted with the manual.	
Any other documents related to the vessel should be submitted along with the manual.	

8) Training:

Firm should provide necessary training regarding operation and safety aspects of the Cryogenic equipment/product.

9) BHEL Scope:

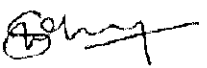
Civil platform, Power supply, Water, Oxy-acetylene gas, LPG, earth pit will be provided by BHEL.

10) Performance:

After commissioning of the LAR storage vessel and its accessories its performance should be witnessed by the Production, Welding Technology Centre and Maintenance & Services.

11) Mobilization charges will be paid to the vendor based on the certification from the user department after commissioning and handing over of the system. (Demobilization charges will not be paid by BHEL).

12) In case of any additional information or clarification, Bidders may visit the site before quoting on all working days between 09.00 to 15.00 Hrs.


SHINE MOHAN
Dy. Manager
Maintenance & Services
BHEL, TRICHY - 620 014

ANNEXURE –B

COMMERCIAL TERMS CONFIRMATION REQUIRED FROM THE SUPPLIERS TO BE SUBMITTED ALONG WITH PART – I (TECHNO COMMERCIAL BID)

S. NO	DESCRIPTION	BHEL REQUIREMENTS	SUPPLIER CONFIRMATION / DEVIATION (STRIKEOUT WHICHEVER IS NOT APPLICALE)
1	VALIDITY	90 DAYS FROM DATE OF TECHNICAL BID OPENING	NON DEVIATABLE
2	PRICE QUOTED	FOR-DESTINATION BHEL STORES / TRICHY	NON DEVIATABLE
3	DELIVERY SCHEDULE FOR LIQUID ARGON SUPPLY	IMMEDIATELY ON ISSUE OF PURCHASE ORDER IN STAGGERED MANNER AS AND WHEN REQUIRED BY BHEL FOR A PERIOD OF TWO YEARS.	NON DEVIATABLE
4	PAYMENT TERMS	FOR DESIGN, ERECTON AND COMMISIONING CHARGES: 100% PAYMENT WILL BE MADE AFTER 60 DAYS FROM THE DATE OF CERTIFICATION. FOR LIQUID ARGON SUPPLY: AFTER 45 DAYS FROM THE DATE OF RECEIPT AND ACCEPTANCE OF MATERIALS AT BHEL FOR LIQUID ARGON RENTAL TANK: 100% MONTHLY RENTAL PAYMENT WILL BE MADE AFTER 60 DAYS FROM THE DATE OF CERTIFICATION BY BHEL ENGINEER.	ACCEPTED / NOT ACCEPTED
5	LD CLAUSE	(FOR DETAILS PLEASE READ S.NO:7 OF “ANNEXURE – A”)	NON DEVIATABLE
6	RISK PURCHASE CLAUSE	(FOR DETAILS PLEASE READ S.NO:8 OF “ANNEXURE – A”)	NON DEVIATABLE
7	CONTACT PERSON DETAILS	NAME: MOBILE NO: EMAIL :	
8	ACCEPTENCE FOR SUPPLYING LIQUID ARGON AS FOLLOWS,		
	a. As per IS: 5760:1998 / Second Revision reaffirmed 2016/latest with Oxygen 4PPM Maximum.		YES / NO
	b. To unload the product in tank installed at Building 50 & Unit-II at BHEL Trichy premises.		YES / NO
	c. ACCEPTANCE FOR THE CONVERSION FACTOR OF VOLUME OF SUPPLY: 1 KG OF LIQUID ARGON = 0.6169 CUBIC METRES OF LIQUID ARGON.		YES / NO
	d. To issue Test Certificate along with each supply.		YES / NO
	e. To issue Product Data Sheet / Material Safety Data sheet along with first supply.		YES / NO
	f. Necessary flange / fitting / accessories to be arranged by the supplier for unloading the product according to BHEL tank fitting / flange type given in the enquiry.		YES / NO
	g. LAR gas Grade-2 for welding purpose as per IS 5760:1998 (Second revision) reaffirmed 2016/latest with oxygen 4 PPM maximum.		YES / NO
(Offers not received with the above document will not be considered for evaluation and liable for rejection)			

(BIDDERS SHOULD SUBMIT THEIR OFFER IN THE BHEL FORMAT ONLY, OTHER FORMATS WILL NOT BE CONSIDERED)

SIGN AND SEAL OF
AUTHORIZED PERSON

/ On Bidder's office letter pad /

Self-Declaration

Enquiry No.	
Enquiry Date	

In line with Government public procurement order Number P-45021/2/2017-B.E-II dated 15.06.2017, and further modified order dt. 28.05.2018 & order 04.06.2020 issued by DPIIT

I / We hereby declare that I / We are a "Local Supplier" meeting the requirement of minimum local content (.....%) defined in the above government notification for the goods against above mentioned enquiry Number.

Details of location at which local value addition will be made is as follows:

Door No.	
Street / Address 1	
Street / Address 2	
District	
State	
Country	
PIN Code	

We also understand that the false declarations will be considered as breach of Integrity and liable for action.

For Company Name:

Seal:

Signature:

Date:

Place:

(Please fill all the yellow color field)

ANNEXURE - N (For NEW VENDORS only)

SI No	Details	Document submission
1	Nature of ownership & relevant documents. <i>(Proprietorship-Professional Tax Regn & Municipal Regn; Partnership firm – Partnership Deed; Co-operative society – Society rules & bye laws ; Private/Limited Company – memorandum & Articles of Association)</i>	
2	Manufacturing range & facilities: • List down the product range & specification details. • List of Manufacturing facilities/equipment's (including material handling facility)	
3	Licence details of the factory	
4	• Permanent Account No • GST registration number • State sales Tax / TIN number • Excise duty registration number • Excise control code number • Service tax registration number • Regn number of category as per MSMED Act (If applicable)	
5	If registered with any other BHEL unit • Letter of registration with BHEL unit (If applicable) • Proof of successfully executed or executing purchase orders	
6	Accreditation certificate for ISO:9001 / TOC of Quality System manual / ISO:14000 / OHSAS ISO 18000 (If applicable)	
7	Balance Sheet for the last three years along with the audit report	