



भारत सरकार/Government of India  
अंतरिक्ष विभाग/Department of Space  
द्रव नोदन प्रणाली केंद्र  
LIQUID PROPULSION SYSTEMS CENTRE  
एच ए एल II स्टेज, 80 फीट रोड  
HAL II STAGE, 80 FEET ROAD,  
बेंगलूरु/BANGALORE-560 008.  
फोन सं./Phone No.080 25037171  
ई-मेल/Email: purchase@lpscb.gov.in



दिनांक/Date: 03.04.2024

लोक निविदा सूचना सं. एल बी2024000032-01 दिनांक 03.04.2024

PUBLIC TENDER NOTICE NO. LB2024000032-01 DATED 03.04.2024

पैलेटों से सुसज्जित 47 एल गैस सिलिंडरों की आपूर्ति के लिए निविदा  
Tender for supply of 47L Gas Cylinders fitted with Pallets

निविदा वर्गीकरण/Tender Classification : लोक निविदा/PUBLIC TENDER

**निविदा की निर्धारित तिथियाँ/TENDER SCHEDULE**

बोली प्रस्तुति की आरंभिक तिथि/Bid Submission Start Date	: 03.04.2024 14:00
बोली स्पष्टीकरण की नियत तिथि/Bid Clarification Due Date	: 16.04.2024 14:00
बोली प्रस्तुतीकरण की नियत तिथि/Bid Submission Due Date	: 21.05.2024 14:00
बोली खुलने की तिथि/Bid Opening Date	: 21.05.2024 14:30
मूल्य बोली खुलने की तिथि / Price Bid Opening Date	: 04.06.2024 14:00

निविदा दस्तावेज़ <https://www.isro.gov.in/> OR <https://eproc.vssc.gov.in> या इसरो ई-प्रापण पोर्टल से डाउनलोड किए जा सकते हैं। Tender documents can be downloaded from <https://www.isro.gov.in/> OR <https://eproc.vssc.gov.in> or ISRO E-Procurement Portal.

हस्ताक्षरित/Signed  
क्रय व भंडार अधिकारी/Purchase & Stores Officer

**GOVERNMENT OF INDIA  
DEPARTMENT OF SPACE  
LIQUID PROPULSION SYSTEMS CENTRE (LPSC-B)  
BANGALORE**

**Tender for Supply of 47L. capacity brand new gas cylinders for gaseous Nitrogen, Helium and Argon fitted with modular pallet of each 9 cylinders(3X3) as manifold as per the specification**

**Bids to be submitted online**

**Tender No.: LPSC-B/Liquid Propulsion Systems  
Centre,Bengaluru/LB202400003201 dated 03-04-2024**

## A. Tender Details

Tender No :	<b>LPSC-B/Liquid Propulsion Systems Centre,Bengaluru/LB202400003201</b>
Tender Date :	<b>03-04-2024</b>
Tender Classification:	<b>GOODS</b>
Purchase Entity :	<b>Liquid Propulsion Systems Centre,Bengaluru</b>
Centre :	<b>LIQUID PROPULSION SYSTEMS CENTRE (LPSC-B)</b>

### **Supply of 47L. capacity brand new gas cylinders for gaseous Nitrogen, Helium and Argon fitted with modular pallet of each 9 cylinders(3X3) as manifold as per the specification**

Supply of 47L. capacity brand new gas cylinders for gaseous Nitrogen, Helium and Argon fitted with modular pallet of each 9 cylinders(3X3) as manifold as per the specification

#### A.1 Tender Schedule

Bid Submission Start Date :	<b>03-04-2024 14:00</b>
Bid Clarification Due Date :	<b>16-04-2024 14:00</b>
Bid Submission Due Date :	<b>21-05-2024 14:00</b>
Bid Opening Date :	<b>21-05-2024 14:30</b>
Price Bid Opening Date :	<b>04-06-2024 14:00</b>

## **B. Tender Attachments**

NA

### **Instructions To Vendors**

#### **1. STANDARD TERMS AND CONDITIONS FOR PUBLIC TENDER(PT)**

##### **1. APPLICABLE LAW**

The Contract shall be governed by Indian Law for the time being in force and jurisdiction shall lie in the Courts of India.

2. As far as implementation of public procurement policy (Preference to make in India) Order, 2017 is concerned, the Office Orders vide No. P-45021/2/2017-B.E-II dt. 15.06.2017, which is partially modified by Order No. P-45021/2/2017-PP(BE-II) dt. 28.05.2018, Order No.P-45021/2/2017-PP(BE-II)dt. 29.05.2019, Order No. P- 45021/2/2017-PP (BE-II) dt 04.06.2020 and Order No.P-45021/2/2017-PP (BE-II) dt 16.09.2020 and subsequent Amendments issued by the Department for Promotion of Industries and Internal Trade, Ministry of Commerce and Industry and Internal Trade, Ministry of Commerce and Industry regarding Class-I/Class-II local suppliers, Purchase preference, verification of local contents etc shall be applicable to this tender. Therefore, bidders may ensure compliance of the same while submitting tenders.

##### **3. Bank Details**

You shall provide your bank details such as IFSC code, IBAN No. , SWIFT etc along with your offer which shall be not be changed till completion of supply/service.

##### **4. Custom Duty Concession Certificate:**

LPSC is providing concession certificate towards the of payment of Customs Duty vide As per the Customs Notification No. 50/2017, SI. No. 539(b)-CUSTOMS Dated 30.06.2017 & Amendment No: 5/2018, SI No.539(A) - CUSTOMS Dated: 25/01/2018.

##### **5. FORCE MAJEURE**

Neither LPSC, Bangalore nor Supplier/ Contractor, shall be considered in default of the performance of their obligations under this Purchase Order if such performance is prevented or delayed for any causes beyond the reasonable control of the parties to the Order getting affected, such as Acts of God, war, riots, civil, commotion, illegal strikes, legal lock-outs, epidemics, fire accidents, floods, earthquakes,

proclamation or regulation or ordinance of any Government thereof, provided notice in writing of any such cause with necessary proof that the obligation under the Purchase Order is hereby affected or prevented or delayed is given within 14 days from the happening of the event. As soon as the cause of force majeure has ceased to exist, the party of the actual delay that has occurred due to such force majeure condition.

#### 6. Instruction to Foreign Suppliers:-

a)Our normal payment term is SIGHT DRAFT, Please confirm acceptance in your offer, if you insist for L/C, and all bank charges shall be to your account. Confirm acceptance.

b)Confirm whether any Export clearance is required and for which End User Certificate is to be provided by us, in case of an Order on you. (Enclose format for EUC, if applicable)

c)Warranty/Guarantee applicable for the item shall be mentioned in your offer

d)Special Certification for packing Material: as per Plant Quarantine (Regulation of Import into India) Order 2003, Articles packed with packing material of plant origin viz., hay, straw, wood shavings, wood chips, saw dust, wood waste, wooden pallets, Dunn age Mats, wooden packages, coir pith, pear or sphagnum moss etc., will be allowed entry by Customs only with a Phytosanitary Certificate. In case if a Purchase Order, if you propose to us any of the above material for packing such a certificate issued by your local Plant Quarantine Authority shall be furnished.

e)The tenders received from Indian agents on behalf of their foreign Principals/OEMs (in cases where the Principals/OEMs also submit their tenders simultaneously for the same item/product in the same tender) the same will be not be considered.f) In case two or more tenders are received from an Indian agent on behalf of more than one foreign Principal/OEM, in the same tender for the same item/product will not be considered. (In either case an Indian agent cannot represent more than on principal against the same tender)

g)If an agent submits Bid on behalf of the Principal/OEM the same agent shall not submit a bid on behalf of another Principal/OEM in this tender for the same Item/Product. (In either case an Indian agent cannot represent more than on principal against the same tender)

h)In case the quote is on Indian Rupee (High Sea Sale), the price shall include GST and duties if any, Department will provide concessional certificates. If the item quote is of USA / France / Germany / Japan/Italy and etc. make, please quote for all-inclusive price since we prefer to get the item on FOR destination basis.

#### 7. Instruction to Indigenous Suppliers:

a)Our Normal payment terms are 100% within 30 days after receipt and acceptance of the item at our site. Please confirm acceptance in your quotation.

b)Please specify GST percentage, if any, in your offer.

- (i) Please refer SI No: 1 of Government Of India, Ministry Of Finance, Notification Number 47/2017 Integrated Tax (rate) dated: 14/11/2017, the applicable percentage of GST is 5% only for the supply of Goods (Procurement). Necessary Certificate will be issued later.
- (ii) Please refer SI. No: 1 of Government Of Karnataka, Finance Secretariat, Notification Number 45/2017 FD 48 CSL 2017, BENGALURU, dated: 14/11/2017, the applicable percentage of GST is 5% only for the supply of Goods (Procurement). Necessary Certificate will be issued later.
- (iii) In case of service (i.e. Installation, commissioning & testing and AMC, etc. ), GST @18% extra.
- (iv) GST is not applicable for imported items.

## 8. JURISDICTION

The court of Bangalore only shall have jurisdiction to deal with and decide any legal matter or dispute whatsoever arising out of this in case PO/contract.

## 9. Liquidated Damages:

If you fail to deliver the ordered items satisfactorily within the time specified or any extension thereof, Liquidated Damage @ 0.5%(zero point five percent) of the order value or part thereof the un-delivered items for each calendar weeks of delay shall be recovered from your bill. However total Liquidated Damage shall not exceed 10% (ten percent) of the order value.

10. Offers received through fax or email or unsigned will not be considered.

## 11. Offer Validity

Your offer shall be valid for 120 days from the date due date of tender opening. In case you offer validity is less than 120 days, the said offer is liable for rejection which may please be noted.

## 12. Performance Bank Guarantee (PBG) :

You have to submit a PBG from a Nationalised / Scheduled Bank in Rs.200/- Stamp Paper for 3% of the order value towards the performance of the system at the time of supply valid till the completion of warranty period plus 60 days (as claim period) as per the format provided by the Department. OR 3% of the order value shall be with held till the completion of Warranty Period plus 60 days.

13. Price Preference shall be extended to the MSEs under the Public Procurement Policy for MSEs. Such MSEs shall produce documentary proof of registration as per provisions of the Policy ie: registration with District Industries Centre (DIC) or Khadi and Village Industries Commission (KVIC) or Khadi and Industries Board (KVIB) or Coir Board or National Small Industries Commission (NSIC) or Directorate of Handicrafts and Handlooms or Udyog Aadhar Memorandum or any other body specified by Ministry of MSME.

14. Purchase / Price preference to MSEs (Not applicable to foreign Suppliers/Vendors)

Purchase/Price preference will be applicable to the product reservation admissible to the Micro and Small Enterprises. Purchase/Price Preference shall be extended to the MSEs under the Public Procurement Policy for MSEs formulated under the Micro, Small and Medium Enterprises Development Act, 2006. The participating MSEs in a tender, quoting price within the band of L-1 + 15% may also be allowed to supply a portion of the requirement by bringing down their price to the L-1 price, in a situation where L-1 price is from someone other than an MSE. Such MSEs may be allowed to supply upto 20% of the total tendered value. In case of more than one such eligible MSE, the supply will be shared equally.

15. Security Deposit cum Performance Bank Guarantee (SD cum PBG): In case, if parties are unable to provide two separate BGs, i.e., one for SD and one for PBG, they can submit a combined BG for SD cum PBG from a Nationalised / Scheduled Bank in Rs.200/- Stamp Paper within 10 days of receipt of order for 3% of order value valid till the completion of total contractual obligation (i.e., supply period + warranty period + 60 days) as per the format provided by the Department.

16. Security Deposit (SD) :

You have to furnish a Bank Guarantee from a Nationalised / Scheduled Bank in Rs.200/- Stamp Paper for 3% of the order value within 10 days of receipt of order towards the faithful execution of the order valid till the completion of the scope of work as per order plus sixty days (as claim period). (This will be returned to you immediately on execution of the order satisfactorily as per order terms. In case of non-performance / poor performance, the amount will be forfeited).

17. Warranty:-

Warranty for the offered item shall be from the date of installation/acceptance of the item at our site for a minimum period of one year or as specified in the tender document.

## C. Bid Templates

**C.1 Technical Bid - Supply of 47L. capacity brand new gas cylinders for gaseous Nitrogen, Helium and Argon fitted with modular pallet of each 9 cylinders(3X3) as manifold as per the specification**

### 1. CYLINDERS

**Brand new cylinders of 47L. Capacity for gaseous Nitrogen fitted with pallet of 3 X 3 configuration and interconnected with SS tube manifold as per specification.**

#### Item specifications for CYLINDERS

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	Brand new empty gas cylinder for Nitrogen gas	Brand new empty gas cylinder for Nitrogen gas	Yes / No / Explain		
2	Capacity	47Litres-Water volume	Yes / No / Explain		
3	Cylinder material	Carbon steel	Yes / No / Explain		
4	Valve material	Brass	Yes / No / Explain		
5	Working pressure	150 bar	Yes / No / Explain		
6	Hydrostatic proof pressure test	225 bar	Yes / No / Explain		
7	Cylinder painting colour	Grey as per standard	Yes / No / Explain		
8	Certificate shall be submitted	(1) Hydrotest Certificate . (2) CCOE certificate. (3) Cylinder warranty certificate.	Yes / No / Explain		
9	Gas cylinder confirming standard	Gas cylinders shall be confirming to IS-7285/ Equivalent with neck ring valve fitted confirming IS:3224	Yes / No / Explain		

#### Document : Scope of work

### 2. Empty Gas Cylinders

**Brand new cylinders of 47L. Capacity for gaseous Helium fitted with pallet of 3 X 3**



configuration and interconnected with SS tube manifold as per specification.

### Item specifications for Empty Gas Cylinders

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Brand new gas cylinders for Helium gas	Brand new gas cylinders for Helium gas	Yes / No / Explain		
2	Capacity	47L. water volume	Yes / No / Explain		
3	Material-Cylinder	Carbon steel	Yes / No / Explain		
4	Valve material	Brass	Yes / No / Explain		
5	Operating pressure	150 bar	Yes / No / Explain		
6	Hydraulic proof pressure	225 bar	Yes / No / Explain		
7	Color coding	Brown color as per the standard	Yes / No / Explain		
8	Certificates	Hydraulic pressure test certificate, PESO certificate for filling permission for each gas cylinder	Yes / No / Explain		
9	Gas cylinder confirming standard	Gas cylinders shall be confirming to IS-7285/ Equivalent with neck ring valve fitted confirming IS:3224	Yes / No / Explain		

### Document : scope of work

### 3. Argon Gas Cylinder

Brand new cylinders of 47L. Capacity for gaseous Argon fitted with pallet of 3 X 3 configuration and interconnected with SS tube manifold as per specification.

### Item specifications for Argon Gas Cylinder

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Brand new empty gas cylinders for argon gas	Brand new empty gas cylinders for argon gas	Yes / No / Explain		

2	Cylinder Capacity	47 litres water capacity with 7 cubic meter gas capacity	Yes / No / Explain		
3	Working Pressure	150 bar	Yes / No / Explain		
4	Hydraulic pressure test	225 bar	Yes / No / Explain		
5	Cylinder material	Carbon steel	Yes / No / Explain		
6	Valve material	Brass	Yes / No / Explain		
7	Color code	Blue as per standard	Yes / No / Explain		
8	Certificates to be provided	Hydraulic pressure test certificate and PESO certificate for each gas cylinder	Yes / No / Explain		
9	Confirming standard for gas cylinders	cylinder conforming to IS 7285 fitted with IS 3224 valve	Yes / No / Explain		

#### Document : scope of work

#### 4. HYDRAULIC TESTING OF INDUSTRIAL GAS CYLINDER PALLETS

Gas cylinder pallets ( for the above gas cylinders) with SS tube manifold for inter connecting the 9 cylinders in 3X3 arrangement with single outlet valve and pressure gauge as per specification

#### Item specifications for HYDRAULIC TESTING OF INDUSTRIAL GAS CYLINDER PALLETS

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Cylinders shall be fitted with modular pallet of 9 cylinder in each pallet with interconnection and common Mani folded outlet with shut off valve and pressure gauge	Cylinders shall be fitted with modular pallet of 9 cylinder in each pallet with interconnection and common Mani folded outlet with shut off valve and pressure gauge	Yes / No / Explain		

#### Document : scope of work

#### 5. TRANSPORTATION CHARGES

Freight charges

## Item specifications for TRANSPORTATION CHARGES

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Packing and transportation charges	Packing and transportation charges	Yes / No / Explain		

### Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Brand new cylinders for gaseous Nitrogen fitted with pallet as manifolded each 3 X 3 configuration as per the scope of work	198 cylinders of 22 pallets	Yes / No / Explain		
2	Brand new cylinders for gaseous Helium fitted with pallet as manifolded each 3 X 3 configuration as per the scope of work	198 cylinders of 22 pallets	Yes / No / Explain		
3	Brand new cylinders for gaseous Argon fitted with pallet as manifolded each 3 X 3 configuration as per the scope of work	54 cylinders of 6 pallets	Yes / No / Explain		

### Supporting Documents required from Vendor

**1. 1.0 Test certificate and filling permission for refilling of each cylinder from PESO. 2.0 Pressure test certificates for each cylinder pallet.**

5 additional documents can be uploaded by the vendor

## C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	All the gas cylinder as pallets to be supplied to ITPF , LPSC Extesion campus, Tumukuru	Yes / No / Explain	
2	This is a Two Part Tender. Do not mention price element in Techno Commercial Bid. If any Price element mentioned in technical bid, your offer will not be considered.	Yes / No / Explain	
3	GST: Kindly mention exact percentage of GST (HSN Code, if applicable) IGST@5% concessional rate for supply of Goods: IGST concessional rate @ 5% is applicable for the following goods mentioned under Sl. No. 243B as per Department of Revenue Notification No. 07/2018: "Scientific and technical instruments, apparatus, equipment, accessories, parts, components, spares, tools, mock ups and modules, raw material and consumables required for Launch Vehicles and Satellites and Payloads" Kindly mention the nature of Goods.	Yes / No / Explain	
4	Duties & Levies for Foreign supply: a) LPSC is providing concession certificate towards the payment of Customs Duty vide as per the Customs Notification No. 50/2017, Sl. No. 539(b)-CUSTOMS Dated 30.06.2017 & Amendment No: 5/2018, Sl. No. 539(a) CUSTOMS Dated: 25/01/2018. b) GST is not applicable for imported items.	Yes / No / Explain	
5	P & F charges (if applicable)	Yes / No / Explain	
6	Delivery Terms : In case of Indigenous Supplier : LPSC, BANGALORE.	Yes / No / Explain	
7	Delivery Terms : In case of Foreign Suppliers: EX-WORKS / FOB /FCA	Yes / No / Explain	
8	Payment Terms for Indigenous Orders: - 100% payment shall be made through RTGS within 30 days of receipt and acceptance of the items at our site.	Yes / No / Explain	

9	Payment Terms for Foreign Orders: Payment term shall be Sight Draft OR 90% by Irrevocable Letter of Credit and balance 10% by wire transfer after receipt (including installation & commissioning) and acceptance of the ordered item.	Yes / No / Explain	
10	Delivery Period: Supply of gas cylinders with pallets shall be 6 months from the date of receipt of purchase order.	Yes / No / Explain	
11	Liquidated Damages (LD): - Since delivery is the essence of this order, LD @ 0.5% per week or part thereof subject to a maximum of 10% of the order value of undelivered Stores for each calendar week of delay. The total liquidated damages shall not exceed ten percent (10 percent) of the contract price of the unit or units so delayed.	Yes / No / Explain	
12	Warranty : Warranty for the offered item shall be from the date of installation/acceptance of the item at our site for a minimum period of one year or as specified in the tender document. Warranty certificate shall be provided along with supply.	Yes / No / Explain	
13	Performance Bank Guarantee (PBG) : You have to submit a PBG from a Nationalised / Scheduled Bank in Rs.200/- Stamp Paper for 3% of the order value towards the performance of the system at the time of supply valid till the completion of warranty period plus 60 days (as claim period) as per the format provided by the Department. OR 3% of the order value shall be with held till the completion of Warranty Period plus 60 days.	Yes / No / Explain	
14	Security Deposit (SD) : You have to furnish a Bank Guarantee from a Nationalised / Scheduled Bank in Rs.200/- Stamp Paper for 3% of the order value within 10 days of receipt of order towards the faithful execution of the order valid till the completion of the scope of work as per order plus sixty days(as claim period). (This will be returned to you immediately on execution of the order satisfactorily as per order terms. In case of non-performance / poor performance, the amount will be forfeited).	Yes / No / Explain	

15	Security Deposit cum Performance Bank Guarantee (SD cum PBG):In case, if parties are unable to provide two separate BGs i.e. one for SD and one for PBG, they can submit a combined BG for SD cum PBG from a Nationalised / Scheduled Bank in Rs.200/- Stamp Paper within 10 days of receipt of order for 3% of order value valid till the completion of total contractual obligation (i.e. supply period plus warranty period plus 60 days) as per the format provided by the Department.	Yes / No / Explain	
16	Freight charges : If any, mentioned as EXTRA OR INCLUDED in your quote, please mention the percentage in Vendor Terms.	Yes / No / Explain	
17	Installation Charges: If any, mentioned as EXTRA OR INCLUDED in your quote, please mention the percentage in Vendor Terms.	Yes / No / Explain	
18	In case two or more tenders are received from an Indian agent on behalf of more than one foreign Principal/OEM, in the same tender for the same item/product will not be considered.	Yes / No / Explain	
19	Insurance : Being a Government of India Department, Insurance is not required at our cost. Please ensure the safe delivery of the ordered item with proper AIR / SEA / ROAD worthy packing.	Yes / No / Explain	
20	Validity of Offer : (a) The validity of the offers should be 120 days from the date of opening of the tenders. NOTE : Tenders validity period shorter than offer validity mentioned above will not be considered for evaluation.	Yes / No / Explain	

21	<p>In case of foreign orders:(a) Please specify whether any Export clearance is required. If it is required please provide End User Certificate format along with offer. (b) Please specify whether any Agency Commission is involved or not. If YES mention the percentage of Agency Commission. [Agency Commission shall be claimed by the Indian Agent through an Invoice. The Agency Commission shall be paid to the Indian Agent in Indian Rupees worked out on the basis of Telegraphic Transfer buying rate of exchange prevailing on the date of placement of the Purchase order/Contract and shall be paid within 30 days from the date of satisfactory acceptance of the item at our site. Distributers are not eligible for Agency Commission]</p>	Yes / No / Explain	
22	<p>Arbitration: In the event of dispute or difference arising out of or in connection with this purchase order/contract, which cannot be resolved through amicable settlement by mutual consultation, the same shall be settled under the Rules of Arbitration &amp; Conciliation act 1996 under the Indian statute only, whose decision shall be final and binding on both the parties.</p>	Yes / No / Explain	
23	<p>Jurisdiction: The Courts in and around the City of Bangalore alone shall have jurisdiction to deal with and decide any matter or dispute whatsoever arising out of this agreement including those arising under the Arbitration Act.</p>	Yes / No / Explain	

24	Force Majeure: Neither LPSC, Bangalore nor party shall be considered in default of the performance of their obligations under this Purchase Order if such performance is prevented or delayed for any causes beyond the reasonable control of the parties to the order getting affected, such as Acts of God, war, riots, civil, commotion, illegal strikes, legal lock-outs, epidemics, fire accidents of any Government thereof, provided notice in writing of any such cause with necessary proof that the obligation under the Purchase Order is hereby affected or prevented or delayed is given within 14 days from the happening of the event. As soon as the cause of force majeure has ceased to exist, the party whose ability to perform his obligation has been affected shall notify the other party of the actual delay that has occurred due to such force majeure condition.	Yes / No / Explain	
25	Details of Indian Agent: Address, contact details like Telephone Number, Fax, e-mail etc., (if applicable)	Yes / No / Explain	
26	Address, contact details like Telephone Number, Fax, e-mail etc., on which order to be placed.	Yes / No / Explain	
27	Details of Principal:Address, contact details like Telephone Number, Fax, e-mail etc., (if applicable)	Yes / No / Explain	
28	You shall provide suppliers bank details such as name of the bank, IFSC code, IBAN Number, SWIFT etc., along with your offer which shall be not be changed till completion of payment.	Yes / No / Explain	
29	Offers received through fax or email or unsigned will not be considered.	Yes / No / Explain	
30	Special conditions against Indian Agents submitting quotations in Foreign Currency: (a) Foreign Principals proforma invoice indicating the commission payable to the Indian Agent and nature of after sales service to be rendered by the Indian Agent. (b) Copy of Agency agreement with the Foreign Principal and Indian agent, precise relationship between them and their mutual interest in the business. (c) Copy of registration and item empanelment of the Indian agent.	Yes / No / Explain	



31	The tenders received from Indian agents on behalf of their foreign Principals/OEMs (in cases where the Principals/OEMs also submit their tenders simultaneously for the same item/product in the same tender) the same will be not be considered.	Yes / No / Explain	
32	Purchase/Preference to MSEs: Purchase/Price Preference shall be extended to the MSEs under the Public Procurement Policy for MSEs formulated under the Micro, Small & Medium Enterprises Development Act 2006. Necessary authenticated documentary evidences shall be submitted along with your offer. NOTE: This is not applicable for foreign Suppliers.	Yes / No / Explain	
33	Price Preference shall be extended to the MSEs under the Public Procurement Policy for MSEs. Such MSEs shall produce documentary proof of registration as per provisions of the Policy ie: registration with District Industries Centre (DIC) or Khadi and Village Industries Commission (KVIC) or Khadi and Industries Board (KVIB) or Coir Board or National Small Industries Commission (NSIC) or Directorate of Handicrafts and Handlooms or Udyog Aadhar Memorandum or any other body specified by Ministry of MSME.	Yes / No / Explain	

34	As far as implementation of public procurement policy (Preference to make in India) Order, 2017 is concerned, the Office Orders vide No. P-45021/2/2017-B.E-II dt. 15.06.2017, which is partially modified by Order No. P-45021/2/2017-PP(BE-II) dt. 28.05.2018, Order No.P-45021/2/2017-PP(BE-II)dt. 29.05.2019, Order No. P-45021/2/2017-PP (BE-II) dt 04.06.2020 and Order No.P-45021/2/2017-PP (BE-II) dt 16.09.2020 and subsequent Amendments issued by the Department for Promotion of Industries and Internal Trade, Ministry of Commerce and Industry and Internal Trade, Ministry of Commerce and Industry regarding Class-I/Class-II local suppliers, Purchase preference, verification of local contents etc shall be applicable to this tender. Therefore, bidders may ensure compliance of the same while submitting tenders.	Yes / No / Explain	
35	% of local content	Yes / No / Explain	
36	Any other terms shall be mentioned in Vendor Terms column.	Yes / No / Explain	

### C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	CYLINDERS Brand new cylinders of 47L. Capacity for gaseous Nitrogen fitted with pallet of 3 X 3 configuration and interconnected with SS tube naifold as per specification.	198.00 Nos.		-		

2	Empty Gas Cylinders Brand new cylinders of 47L. Capacity for gaseous Helium fitted with pallet of 3 X 3 configuration and interconnected with SS tube manifold as per specification.	198.00 Nos.				
3	Argon Gas Cylinder Brand new cylinders of 47L. Capacity for gaseous Argon fitted with pallet of 3 X 3 configuration and interconnected with SS tube manifold as per specification.	54.00 Nos.				
4	HYDRAULIC TESTING OF INDUSTRIAL GAS CYLINDER PALLETS Gas cylinder pallets ( for the above gas cylinders) with SS tube manifold for inter connecting the 9 cylinders in 3X3 arrangement with single outlet valve and pressure gauge as per specification	50.00 Nos.				
5	TRANSPORTATION CHARGES Freight charges	1.00 Sets				

**Common charges (Applicable for all items)**

<b>Installation &amp; Configuration</b>	
<b>Other Costs, if any (Value)</b>	
<b>Taxes, if any (Percentage)</b>	

## 1.0 SPECIFICATION FOR SUPPLY OF BRAND NEW GAS CYLINDERS FOR GASEOUS HELIUM, NITROGEN, ARGON FITTED AS MODULAR PALLET FOR ITPF, TUMUKURU.

**(Note: Vendor shall note that the gas cylinders to be supplied as empty as purged with appropriate gases such as Helium, Argon or Nitrogen having positive blanket pressure for refilling as per the scope of work)**

### **Scope of supply:**

Supply of 47L. capacity brand new gas cylinders for gaseous Nitrogen, Helium and Argon application fitted with modular pallet of each 9 cylinders(3X3) as manifold as per the specification given below:

S.No	Description	Qty (Nos)		Remarks
		Cylinders	Pallets	
01	Brand new cylinders for gaseous Nitrogen fitted with pallet as manifolded each 3 X 3 configuration.	198	22	Detailed specification as given in section:2.1
02	Brand new cylinders for gaseous Helium fitted with pallet as manifolded each 3 X 3 configuration.	198	22	Detailed specification as given in section:2.2
03	Brand new cylinders for gaseous Argon fitted with pallet as manifolded each 3 X 3 configuration..	54	6	Detailed specification as given in section:2.3
	<b>Total (Nos)</b>	<b>450</b>	<b>50</b>	

## **2.0 SPECIFICATION FOR GAS CYLINDERS**

### **2.1 Specification for Supply of cylinders for Gaseous Nitrogen**

Sl. No.:	Specification
1.	Brand new carbon steel cylinders (47 L at 150 bar working pressure) along with proper identification details about the cylinder and type of gas has to be filled. Color coding of GN <sub>2</sub> shall be followed as per ISO standards.
2.	Quantity – 198 nos., Capacity – 47 L with 150 bar
3.	Certification for design of cylinders from PESO
4.	Party should provide the following certificates: <ul style="list-style-type: none"> <li>➤ Hydro static pressure test certificate for gas cylinders</li> </ul>
5.	Cylinder valve outlet / MOC: BS 03 <b>(To suit standard Pressure Regulator male interface) / Brass</b>

6.	Cylinders shall be purged with high pure Nitrogen gas (Purity: 99.995 %).
7.	Gas cylinders shall be confirming to IS-7285/ Equivalent with neck ring valve fitted confirming IS:3224
8.	Manufacture test certificate as well as a copy of the valid filling permission issued by the chief controller of Explosives to be provided along with Brand New Cylinders.
9.	Cylinders shall be fitted with modular pallet of 9 cylinder in each pallet with interconnection and common Mani folded outlet with shut off valve and pressure gauge as per <b>section-3</b>

## 2.2 Specification for Supply of cylinders for Gaseous Helium

Sl. No.:	Specification
1.	Brand new carbon steel cylinders (47 L at 150 bar working pressure) along with proper identification details about the cylinder and type of gas to be filled. Color coding of GHe should be followed as per ISO standards.
2.	Quantity – 198 nos., Capacity – 47 L with 150 bar
3.	Certification for designing of cylinders should comply from PESO
4.	Part should provide following certificates: <ul style="list-style-type: none"> <li>➤ Hydro static testing certificate for gas cylinders</li> </ul>
5.	Cylinder valve outlet / MOC: BS 03 <b>(To suit standard Pressure Regulator male interface) / Brass</b>
6.	Cylinders shall be purged with High pure Helium gas –XL Grade Helium (Purity: 99.999%).
7.	Gas cylinders shall be confirming to IS-7285/ Equivalent with neck ring valve fitted confirming IS:3224
8.	Manufacture test certificate as well as a copy of the valid filling permission issued by the chief controller of Explosives to be provided along with Brand New Cylinders. Gas cylinders shall be confirming to IS-7285/ Equivalent with neck ring valve fitted confirming IS:3224
9.	Cylinders shall be fitted with modular pallet of 9 cylinder in each pallet with interconnection and common Mani folded outlet with shut off valve and pressure gauge as per <b>section-3</b>

### 2.3 Specification for Supply of cylinders for Gaseous Argon

Sl. No.:	Specification
1.	Brand new carbon steel cylinders (47 L at 150 bar working pressure) along with proper identification details about the cylinder and type of gas to be filled. Color coding of Argon shall be followed as per ISO standards.
2.	Quantity – 54 nos., Capacity – 47 L with 150 bar
3.	Certification for designing of cylinders should comply from PESO
4.	Part should provide following certificates: <ul style="list-style-type: none"> <li>➤ Hydro static testing certificate for the cylinders</li> </ul>
5.	Cylinder valve outlet / MOC: BS 03 ( <b>To suit standard Pressure Regulator male interface</b> ) / Brass
6.	Cylinders shall be purged with Ultra High pure Argon gas with purity of 99.9995 %.
7.	Gas cylinders shall be conforming to IS-7285/ Equivalent with neck ring valve fitted confirming IS:3224
8.	Manufacture test certificate as well as a copy of the valid filling permission issued by the chief controller of Explosives to be provided along with Brand New Cylinders. Gas cylinders shall be conforming to IS-7285/ Equivalent with neck ring valve fitted confirming IS:3224
9	Cylinders shall be fitted with modular pallet of 9 cylinder in each pallet with interconnection and common Manifold outlet with shut off valve and pressure gauge as per <b>section-3</b>

### 3.0 SPECIFICATION OF CYLINDER PALLET WITH MANIFOLD:

Manifold - Cylinder pallet/bundle is a modular design concept as given in drawing (**figure -1**) and it is a portable assembly which is designed to be routinely lifted and consist of a frame and 9 high pressure gas cylinders stacked and connected to a common manifold by Stainless steel tubes, valves, fittings and pressure gauge, so that the cylinders can be filled, transported and emptied without disassembly.

The following are the detailed specification of manifold-cylinder Pallet for 9 cylinders (3 X 3 configuration).

- 1) **Frame:** The bolted, galvanized steel (MS structure) frame should be strong enough for providing protection for the bundle's cylinders, valves and manifold, which enable the bundle to be transported. Top of the pallet & front side, door type MS mesh coverage.

- 2) The cylinder pallets shall be provided with rotatable castor wheels of 4 nos at four edges with suitable locking arrangement for easy mobility.
- 3) The cylinder pallets shall be provided with screw jack arrangement in all four edges which is having provision to idle the wheels while usage.
- 4) **Manifold:** Each pallet shall be fitted/stacked with 9 cylinders in vertical /standing position as 3 X 3 matrixes. All the 9 gas cylinders in each pallet shall be inter- connected by stainless steel (SS) tube and SS tube fittings as common manifold with single common outlet having shutoff valve and pressure gauge of 4" dial size with range of 0-300 bar. All the tubes, valves, fittings shall be made up of stainless steel material.
- 5) The frame work and the castor wheels etc. Shall be designed to withstand the total working load of approx.600 Kg .
- 6) **Pressure testing:** The operating pressure for the manifold, pipelines, valves and fittings shall be 150 Bar(G) and as integrated pallet with gas cylinders shall be pressure tested to 225 bar (1.5 times of operating pressure of 150 bar).
- 7) Ramp or suitable provision in the module should be provided for loading/unloading of high pressure gas cylinders.
- 8) The bottom side of the pallet shall be provided with provision for handling/lifting by Forklift and lifting hook provision at the top for lifting/handling with crane hook.
- 9) The cylinder pallet shall be painted with Grey color enamel paint.
- 10) Design, manufacture & testing of manifolded cylinder bundle should be complied with IS 10961:2010.
- 11) One side caution board with HAZCHEM number has to be provided.

SI.NO	PALLET FOR TYPE OF GAS USAGE	QUANTITY OF MANIFOLD-CYLINDER PALLET (3 X 3) NEEDED (NOS)
1	Helium(GHe)	22
2	Nitrogen(GN <sub>2</sub> )	22
3	Argon(GAr)	6
<b>4</b>	<b>TOTAL PALLETS</b>	<b>50</b>

#### 4.0 Other conditions:

- 4.1 Each pallet with gas cylinders (9 nos) fitted / stacked shall be pressure tested as per section-3 (6) at vendor premises. Necessary test certificate for the pressure test shall be submitted for each pallet by the supplier.
- 4.2 LPSCB will depute their representative to witness the pressure testing of the cylinders with pallets as part of pre-dispatch inspection (PDI) in their discretion. Supplier shall provide advance intimation of minimum 2 weeks to LPSCB.



- 4.3 The gas cylinders as fitted with pallets and cylinders to be purged with relevant high pure gases such as Nitrogen, Helium and Argon. **Vendor shall note that the gas cylinders to be supplied as empty as purged with appropriate gases such as Helium, Argon or Nitrogen having positive blanket pressure for refilling.**
- 4.4 Supplier shall supply all the items as single lot. No split purchase order will be considered.
- 4.5 The supplier shall provide detailed catalog with clear technical specification indicating, make and model etc. along with offer/quotation.
- 4.6 Supplier shall provide filled compliance matrix with respect to each specification at the time providing the quotation.

**5.0 Delivery Schedule:**

The delivery schedule for supply of gas cylinders with pallets shall be 6 months from the date of placement of purchase order.

**6.0 Delivery Place:**

The gas cylinders with pallets shall be delivered at Integrated Titanium Alloy Propellant Tank Fabrication Facility (ITPF, LPSC Extension Campus in Tumukuru, Karnataka.

**7.0 Deliverables:**

7.1 Pallets fitted with each 9 cylinders, interconnected as common manifold and tested

si.no	pallet for type of gas usage	quantity of manifold-cylinder pallet (3 x 3) (nos)
1	Helium(GHe)	22
2	Nitrogen(GN <sub>2</sub> )	22
3	Argon(GAr)	6
<b>4</b>	<b>TOTAL PALLETS</b>	<b>50</b>

**7.2 Documents to be provided along with supply:**

- 1.0 Test certificate and filling permission for refilling of each cylinder from PESO.
- 2.0 Pressure test certificates for each cylinder pallet.



**General arrangement of gas cylinders with Pallet**

