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प्लाज़्मा अनुसंधान संस्थान
INSTITUTE FOR PLASMA RESEARCH
परमाणु ऊर्जा विभाग, भारत सरकार का एक सहायता



प्राप्त संस्थान

An Aided Institute of Department of Atomic Energy,
Government of India

इन्दिरा पुल के पास, भट, गांधीनगर - 382 428 भारत

दूरभाष: (079) 2396 2020/2021/2028

फैक्स: 91-079-23962277

वेब: www.ipr.res.in

NEAR INDIRA BRIDGE, BHAT

DIST. GANDHINAGAR - 382 428 (INDIA)

Phone: (079) 2396 2020/2021/2028

Fax : 91-079-23962277

Web : www.ipr.res.in

ENQUIRY

ENQUIRY NO : IPR/EQL/19-20/153

Date : 17-07-2019

Due on : 05-09-2019 by 1:00 PM IST

Reminder-1 Dt: 09-08-2019

Please send your offer in sealed envelope specifying Enquiry No, Date & Due Date, ALONG WITH your credentials for the following items:

Important Note:

Please note that e-mail quotations are not acceptable however you may send your queries (if any) to localpurchase@ipr.res.in

Please ensure your sealed quotation reaches this office not later than above mentioned due date and time.

Kindly go through the following documents properly before quoting which are available on the IPR web portal i.e., http://www.ipr.res.in/documents/tender_terms.html / attached herewith.

- 1) Instructions to the bidders & Terms and conditions (refer Form No: **IPR-LP-01.V4**)
- 2) Bidding format

GST for Goods and Services (IGST/CGST/SGST TAX BENEFITS): Please refer **clause no: 8** of Form No: **IPR-LP-01.V4**

QUOTATION SHOULD BE ADDRESSED TO PURCHASE OFFICER ONLY

Sr No	Description	Quantity
1	Supply of high purity helium gas (Grade-5) with gas transfer elements	500.0 M ³

Note: Note : (1) Unsigned quotations are not acceptable.
Quotation should be submitted duly signed on ALL PAGES
invariably
(2) TDS as per CGST Act : As per provisions of section
No. 51 of the CGST Act 2017, TDS @ 2% (IGST 2% or
CGST 1% and SGST 1%) will be deducted while making
payment to the suppliers where total value of
orders/contracts/work orders exceeds Rs. 2.5 Lakhs, in
the event of order in Indian Rupees

delivery Time :-02 week
Encl: As Per Attachment

Sd/-

Mr. D. Ramesh
Purchase Officer-II

Information to Vendors: We are working towards a single platform for our future requirement. Hence, please refer IPR website i.e,
<http://www.ipr.res.in/documents/tendersenq.html> for our future requirement.

Technical specification for procurement of pure Helium gas (Grade 5)

Gas Composition:

Principal Gas: Helium

Purity of helium gas: 99.999% or better

Purity Grade: 5

Impurities content: Total amount of different gas impurities (H₂O, O₂, N₂, CO₂+CO and THC (total hydrocarbon)) should be ≤ 10 ppm by volume.

Supply of He Gas and other elements:

A. **Helium Gas:** Total required is 500 Nm³ (At a time supply will be ~250 Nm³).

The expected duration within which delivery of 500 Nm³ will be completed is ~8 months. After the acceptance of PO, IPR may need helium gas at any time and the vendor should be able to make the helium gas of required quantity ready for test as per IPR technical specification and intimate IPR within 7 days from the date of IPR's intimation of requirement by email. IPR will intimate the vendor whether IPR representative will witness the tests. IPR will provide the dispatch clearance based on satisfactory test results. After getting dispatch clearance, within 7 days, vendor should deliver the gas to IPR. The supply of Helium gas shall be made in standard helium cylinders (each cylinder should have water capacity ~47 ltr and working pressure about 250 bar)

B. **Transfer Tube:** Party should also supply the standard transfer tube of Cu-alloy material. This tube should have length 10 m, outer diameter 15 mm, both ends with nipples and threaded nut. This will be required to transfer the helium gas from vendor's cylinder to IPR's storage system (quad of standard helium cylinders). Operating pressure is up to 250 bar. IPR's storage system has standard female threading for connection to transfer tube. It should be supplied along with 1st supply of He gas to IPR.

C. **Male-Female transition:** Party should also supply the standard male-female transition with total length less than 150 mm. No. of such transitions required is 4. Material should be of Cu-alloy. It should have standard threaded nuts and nipples with one end female threading and other end male threading. It should be suitable for connection to standard helium cylinders.

Transfer Terms and conditions:

1. The vendor shall send his technical personnel to IPR site while decanting the helium gas at IPR site.
2. Gas transferred to IPR system will be measured based on the initial and final pressure of the vendor cylinder. Vendor may send calibrated pressure gauge or IPR pressure gauge will be used for this.
3. Transportation, loading and unloading of cylinders in the vendor truck are in the scope of vendor.
4. Helium gas cylinder holding time of minimum 24 hours shall be allowed by vendor at no rental cost.
5. After 24 hours, vendor may take rent for each cylinder. Expected holding time at IPR on rent basis is 3 months. (~90 day) and No. of cylinders expected to be held at IPR is 35. Vendor should mention the rental price per day and per cylinder.

6. IPR will inform the vendor to take back their cylinders when helium gas is consumed, Vendor should take back its cylinders as early as possible. IPR will not provide rental fee of cylinders beyond this date of intimation.

Acceptance criteria

Before dispatch of helium gas from vendor site, tests should be done to measure different impurities present in the helium gas and the test reports should be sent to IPR for verification and dispatch clearance. Acceptable level of total impurities is less than or equal to 10 ppm (by volume) for moisture, oxygen, nitrogen, CO+CO₂ and THC (Total hydrocarbon). Based on the test reports, IPR may give dispatch clearance or IPR engineer may visit to witness the test at the vendor site.

The vendor should have facility and instrumentation to analyse the impurities of Moisture, Oxygen, Nitrogen, CO + CO₂ and THC. The vendors should submit the relevant documents related instrumentations (Model No./serial No. make/manufacturer, literature/brochure and accuracy of measurement) on vendor's facility of lab along with quotation.

Price Break-up:

Vendor should provide gas price as per Nm³ basis.

Vendor should also give detailed breakup of rental price (per cylinder per day) and transport prices per lot separately as mentioned in the below table.

Price format table (Vendor need to fill this price break-up)

Sl. No.	Item Description	Basic cost in INR excluding taxes and duties.
1	Basic cost of helium gas per Nm ³	
2	Rental cost per cylinder per day	
3	Transport cost for to and fro for each lot of supply	
4	Cost of transfer tube	
5	Cost of male-female transition, per piece	

Applicable taxes and duties, should be mentioned by the vendor as extra to the above table.

Vendor Compliance table (vendor should fill this and send along with quotation)

Sl. No.	Description of requirement	Vendor's confirmation/Opinion
1	Vendor should have test facility to fulfil the requirements mentioned in this tender	
2	Vendor should agree to satisfy all the technical requirements of the tender	
3	Vendor should agree to all commercial terms and conditions of IPR	
4	Vendor should fill the price format table	
5	Vendor's deviation, if any	
6	Vendor should confirm if it has submitted the relevant documents of test facility along with quotation (Technical information of instruments and pictures)	