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प्लाज्मा 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, भाट, 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 2000/2026/2332
Fax : 91-079-23962277
Web : www.ipr.res.in

ENQUIRY

ENQUIRY NO : IPR/EQF/18-19/220
Date : 06-03-2019

Due on : 04-07-2019 by 1:00 PM IST

Reminder-1 Dt: 11-04-2019

Reminder-2 Dt: 24-05-2019

Please send your offer in sealed envelope specifying Enquiry No, Date & Due Date, ALONG WITH your credentials for the following items which we are interested to import directly against Foreign Trade Policy 2015-2020.

Important Note:

Please note that e-mail quotations are not acceptable however you may send your queries (if any) to importpurchase@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-FP-01.V3**)
- 2) Bidding format

GST for Goods and Services (IGST/CGST/SGST TAX BENEFITS): Please refer **clause no: 14** of Form No: **IPR-FP-01.V3**

QUOTATION SHOULD BE ADDRESSED TO PURCHASE OFFICER ONLY

Sr No	Description	Quantity
1	Proton Exchange Membrane (PEM) fuel cell and associated accessories	1.0 Nos.

Note:

1. Please quote with complete technical details (Technical compliance sheet and product data sheet).
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. Necessary TDS Certificate will be issued to the supplier after

TDS deduction.

3. Unsigned quotations will not be considered. Quotation should be submitted duly signed with official seal on each and every page invariably.

Encl: As per attached

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/tenderseng.html> for our future requirement.

Technical specifications for Proton Exchange Membrane (PEM) fuel cell and associated accessories

1. Description:

The Reversible Polymer Electrolyte Membrane (PEM) Fuel Cell combines the functions of an electrolyzer and a fuel cell into one device. When applying an electrical current the device acts as an electrolyzer that produces hydrogen and oxygen from de-ionized water. When applying a load, the device behaves as a fuel cell and generates electricity from hydrogen.

2. Scope of supply:

- 1) PEM reversible fuel cell: 2 Nos.
- 2) Cables connectors and adapters: as required
- 3) Propeller with motor: 2 Nos.
- 4) Power supply: 1 Nos.
- 5) Silicon tubing: 4 m
- 6) Storage reservoir for H₂ and O₂ gas: 4 Nos.
- 7) Essential accessories: As required

3. Detailed specifications of scope of supply:

S.No	Item	Technical specifications
1.	PEM reversible fuel cell	Quantity: 2 a) Fuel Cell Mode Specifications (per fuel cell): <ol style="list-style-type: none">i. Power: 0.15-0.2 Wii. Output Voltage: The vendor must specify the output voltage of the fuel celliii. Output Current: The vendor must specify the output current generated from the fuel celliv. The vendor should mention the amount of hydrogen to be flown to generate the above mentioned power. b) Electrolyser Mode Specifications (per fuel cell): <ol style="list-style-type: none">i. Input Voltage: The vendor should mention the input voltage for the fuel cell in electrolyser modeii. Input Current: The vendor should mention the input current for the fuel cell in electrolyser modeiii. Hydrogen Production Rate: 6-7 mL/miniv. Oxygen Production Rate: 3-3.5 mL/min
2.	Required cables, connectors and adapters	Vendor should give the details of cables, adapters and connectors with quantity
3.	Propeller with motor	Quantity: 2 The vendor should provide a motor with propeller to demonstrate the generation of electricity from the fuel cell. The vendor should provide the rating of the motor and dimensions along with the quote.
4.	Power supply for the system	Quantity: 1 Input: 230 V \pm 10% ; 50 Hz

5.	Silicon tubing for the system	Quantity: 4 m
6.	Storage reservoir for H₂ and O₂ gas	Quantity: 4 (two for hydrogen and two for oxygen)
7.	Essential accessories	The vendor should provide all the essential accessories for the effective functioning of the system.
8.	Packing and Delivery	The vendor should take proper care and precaution in packing the items and delivering them safely to IPR, Gandhinagar.

Technical Compliance sheet for PEM fuel cell

S.No	Item	Technical specifications	Vendor specifications	Vendor compliance
1.	PEM reversible fuel cell	<p>Quantity: 2</p> <p>c) Fuel Cell Mode Specifications (per fuel cell):</p> <ul style="list-style-type: none"> v. Power: 0.15-0.2 W vi. Output Voltage: The vendor must specify the output voltage of the fuel cell vii. Output Current: The vendor must specify the output current generated from the fuel cell viii. The vendor should mention the amount of hydrogen to be flown to generate the above mentioned power. <p>d) Electrolyser Mode Specifications (per fuel cell):</p> <ul style="list-style-type: none"> v. Input Voltage: The vendor should mention the input voltage for the fuel cell in electrolyser mode vi. Input Current: The vendor should mention the input current for the fuel cell in electrolyser mode vii. Hydrogen Production Rate: 6-7 mL/min viii. Oxygen Production Rate: 3-3.5 mL/min 		

2.	Required cables, connectors and adapters	Vendor should give the details of cables, adapters and connectors with quantity		
3.	Propeller with motor	Quantity: 2 The vendor should provide a motor with propeller to demonstrate the generation of electricity from the fuel cell. The vendor should provide the rating of the motor and dimensions along with the quote.		
4.	Power supply for the system	Quantity: 1 Input: 230 V \pm 10% ; 50 Hz		
5.	Silicon tubing for the system	Quantity: 4 m		
6.	Storage reservoir for H₂ and O₂ gas	Quantity: 4 (two for hydrogen and two for oxygen)		
7.	Essential accessories	The vendor should provide all the essential accessories for the effective functioning of the system.		
8.	Packing and Delivery	The vendor should take proper care and precaution in packing the items and delivering them safely to IPR, Gandhinagar.		

Bidder's Official Stamp and Sign:

Date: