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

ENQUIRY

ENQUIRY NO : IPR/EQF/18-19/245
Date : 28-03-2019

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

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	Isostatically pressed high purity graphite block, Size (mm): W 200 x L 400 X T 200 (Detail specification are attached in separate sheet)	4.0 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.

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/tendersenq.html> for our future requirement.

Technical Compliance

Sr. No	Material Properties	IPR Requirement	Vendor's Specification
1	Density (kg/m ³)	1800 - 1880	
2	Grain Size (µm)	10 - 20	
3	Shore Hardens (Rockwell Hardness HR4/40)	50 – 85 (90 – 115)	
4	Co-efficient of Thermal Expansion (x1E-6 m/K)	4.0 – 5.0	
5	Electrical resistivity (µΩm)	9.0 - 15	
6	Porosity (%)	8 - 17	
7	Ash content contamination level (ppm)	Max. 20	
8	Thermal conductivity (W/mK)	90 - 110	
9	Specific Heat (J/KGK)	700 - 800	
10	Young's Modulus (GPa)	9 - 12	
11	Compressive Strength (MPa)	≥ 90	
12	Tensile Strength (MPa)	≥ 30	
13	Flexural Strength (MPa)	≥ 50	
14	Apprx. Size of Block (mm) W X H x L	200 w X 200 H x 400 L	
15	Qty (No.)	4	
16	Usage – UHV & High Temperature Application	< 10 ⁻⁹ mbar & ~1000 C	

Important Note:

Graphite is required to operate in an Ultra High Vacuum (UHV) environment <10⁻⁹ mbar. Therefore the material needs to be UHV compatible and care should be taken to prevent exposure of graphite to chemicals, oils, dust and avoid any trapped volume. **Vendor should certify in writing of the material usage in UHV environment.**

Acceptance Test for Graphite Block at IPR Site:

- Final Dimensional verifications and quality
- Visual examination of the material for any flaws, cracks and voids
- Outgassing checks for UHV compatibility

Bidder's Official Stamp and sign:

Date: