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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, भाट, गांधीनगर - 382 428 भारत
दूरभाष: (079) 2396 2020/2021/2028
फैक्स: 91-079-23962277
वेब: www.ipr.res.in

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DIST. GANDHINAGAR - 382 428 (INDIA)
Phone: (079) 2396 2000/2026/2332
Fax : 91-079-23962277
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ENQUIRY

ENQUIRY NO : IPR/EQF/18-19/190
Date : 21-01-2019

Due on : 28-02-2019 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	Pyroelectric High Energy Sensor as per given specifications	1.0 Nos.
2	Calibrated Photodiode Power Sensor as per given specifications	1.0 Nos.
3	Handheld Energy and Power Meter as per given specifications	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

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order in Indian Rupees. Necessary TDS Certificate will be issued to the supplier after TDS deduction.

Encl: Refer attached sheet for detailed technical specificaiton.

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.

1. Specifications for Pyroelectric High Energy Sensor

Type	Pyroelectric Energy Sensor
Effective active area	~ 20 mm diameter (for circular head) ; ~ 20 x 20 mm (for square head)
Measurement range of pulse energy (@ 5 mm beam diameter, 7 ns pulse width, 10 Hz repetition rate)	≤ 1 mJ to ≥ 2 J
Spectral range	~ 200 to 1200 nm
Uncertainty (with reference of calibration)	≤ ± 5 %

2. Specifications for Calibrated Photodiode Power Sensor

Type	Photodiode Power Sensor
Detector	Si-Photodiode
Effective active area	~ 10 mm diameter (for circular head) ; ~ 10 x 10 mm (for square head)
Measurement power range	~ 0.5 micro W to 0.5 W
Spectral range	400 - 1100 nm
Uncertainty (with reference of calibration)	≤ ±3% (for 400 - 800 nm)
linearity	±0.5 %

3.Specifications for Handheld Energy and Power Meter

Compatibility	Compatible with both Pyroelectric Energy Sensor and Photodiode Power Sensor (Item 1&2)
Display type	Digital display
Measurement accuracy	≤ ± 1%
Measurement Display	Pulse energy, Avg. Power. Real time Statistics
Analog output	Yes
Data handling (through)	USB / RS-232
Power	Re-chargeable battery with AC adopter @ 220 V, 50 Hz

Compliance sheet

1. **Specifications for Pyroelectric High Energy Sensor**

Description	IPR Specifications	Offered Specifications
Type	Pyroelectric Energy Sensor	
Effective active area	~ 20 mm diameter (for circular head) ; ~ 20 x 20 mm (for square head)	
Measurement range of pulse energy (@ 5 mm beam diameter, 7 ns pulse width, 10 Hz repetition rate)	≤ 1 mJ to ≥ 2 J	
Spectral range	~ 200 to 2000 nm	
Uncertainty (with reference of calibration)	≤ ± 5 %	

2. **Specifications for Calibrated Photodiode Power Sensor**

Description	IPR Specifications	Offered Specifications
Type	Photodiode Power Sensor	
Detector	Si-Photodiode	
Effective active area	~ 10 mm diameter (for circular head) ; ~ 10 x 10 mm (for square head)	
Measurement power range	~ 0.5 micro W to 0.5 W	
Spectral range	400 - 1100 nm	
Uncertainty (with reference of calibration)	≤ ±3% (for 400 - 800 nm)	
linearity	±0.5 %	

3. **Specifications for Handheld Energy and Power Meter**

Description	IPR Specifications	Offered Specifications
Compatibility	Compatible with both Pyroelectric Energy Sensor and Photodiode Power	

	Sensor (Item 1&2)	
Display type	Digital display	
Measurement accuracy	≤ ± 1%	
Measurement Display	Pulse energy, Avg. Power. Real time Statistics	
Analog output	Yes	
Data handling (through)	USB / RS-232	
Power	Re-chargeable battery with AC adopter @ 220 V, 50 Hz	