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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, 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/19-20/005
Date : 09-04-2019

Due on : 23-05-2019 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	Hg Ar calibration Source	1.0 Nos.
2	Neon Calibration Source	1.0 Nos.
3	Kr Calibration Source	1.0 Nos.
4	Deuterium Calibration source	1.0 Nos.
5	Radiometric calibration source	1.0 Nos.
6	Integrated sphere	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.

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.

1. Technical specification of Mercury Argon Calibration Source

Sl. No	Parameters	IPR Specifications
1	Lamp	HgAr
2	Output Wavelength	253.6-922.5 nm
3	Output power in 600µm fiber	> 1 µW
4	Connector	Preferably SMA 905 connector
5	Lamp Life	> ~3000 Hours
6	Power requirement	~ 230V AC, 50Hz/60Hz, if 12V/24V DC required, suitable Power adapter must be provided
7	wavelength ~ Relative intensity Plot graph	Must be provided

NOTE: Please, quote for relevant accessories or spares.

2. Technical specification of Neon Calibration Source

Sl. No	Parameters	IPR Specifications
1	Lamp	Neon
2	Output Wavelength	540-750nm
3	Output power in 600µm fiber	> 1 µW
4	Connector	Preferably SMA 905 connector
5	Lamp Life	> ~3000 Hours
6	Power requirement	~ 230V AC, 50Hz/60Hz, if 12V/24V DC required, suitable Power adapter must be provided
7	wavelength ~ Relative intensity Plot graph	Must be provided

NOTE: Please, quote for relevant accessories or spares.

3. Technical specification of Kr Calibration Source

Sl. No	Parameters	IPR Specifications
1	Lamp	Kr
2	Output Wavelength	430-890nm
3	Output power in 600µm fiber	> 1 µW
4	Connector	Preferably SMA 905 connector
5	Lamp Life	> ~3000 Hours
6	Power requirement	~ 230V AC, 50Hz/60Hz, if 12V/24V DC required, suitable Power adapter must be provided
7	wavelength ~ Relative intensity Plot graph	Must be provided

NOTE: Please, quote for relevant accessories or spares.

4. Technical specification of Deuterium Calibration Source

Sl. No	Parameters	IPR Specifications
1	Lamp	Deuterium
2	Output Wavelength	230-700nm
3	Output Optical power in 600 μ m fiber:	> 70 μ W
4	Max. drift:	\pm 0.5%/hr
5	Connector	Preferably SMA 905 connector
6	Warm up	< 35 min
7	Lamp Life	> 999 Hr
8	Power requirement	\sim 230V AC, 50HZ, if 12V/24V DC required, suitable Power adapter must be provided
9	wavelength \sim Relative intensity Plot calibration graph	Must be provided
10	Spectral irradiance curve extending upto visible region which shows a sharp and strong D-alpha (656.1nm)line.	Available
11	Radiometric calibration	Optional, Vendor may quote for radiometric calibration charges in extra if applicable

Vendor may suggest/quote any important accessories necessary for the safe operation of the Deuterium lamp.

5. Technical specification of radiometric Calibration Source

Sl. No	Parameters	IPR Specifications
1	Lamp	Quartz Tungsten/ Tungsten Halogen/any continuum lamp
2	Output Wavelength	350-1100nm
3	Max Optical power in 600 μ m fiber	> 4mW
4	Max. drift:	<. 0.5%/hr
5	Connector	SMA 905 connector & free space
6	Warm up time	< 35 min
7	Lamp Life	> 999 Hr
8	Power requirement	\sim 230V AC, 50HZ, if 12V/24V DC required, suitable Power adapter must be provided
9	Calibration for	Absolute irradiance (μ W/cm ² /nm)
10	Calibration uncertainty	< \sim 10%

6. Technical specification of integrated sphere

Sl. No	Parameters	IPR Specifications
1	Size(Dia)	≥ 100 mm
2	Minimum % reflectance	$> 95\%$ in 350-1100 nm
3	Damage Threshold	> 1.5 J/cm ²
4	Thermal Limit	> 90 C
5	Number of ports	≥ 3
6	Accessories for operation of integrated sphere, i.e suitable coupling port to SMA connector	Must be provided
7	At least one of the port diameter	> 11 mm

NOTE: Please, quote for relevant accessories or spares.

Compliance Sheet

1 Mercury Argon Calibration Source

Sl. No	Parameters	IPR Specifications	Vendor Specification
1	Lamp	HgAr	
2	Output Wavelength	253.6-922.5 nm	
3	Output power in 600µm fiber	> 1 µW	
4	Connector	Preferably SMA 905 connector	
5	Lamp Life	> ~3000 Hours	
6	Power requirement	~ 230V AC, 50Hz/60Hz, if 12V/24V DC required, suitable Power adapter must be provided	
7	wavelength ~ Relative intensity Plot graph	Must be provided	

NOTE: Please, quote for relevant accessories or spares.

2 Neon Calibration Source

Sl. No	Parameters	IPR Specifications	Vendor Specification
1	Lamp	Neon	
2	Output Wavelength	540-750nm	
3	Output power in 600µm fiber	> 1 µW	
4	Connector	Preferably SMA 905 connector	
5	Lamp Life	> ~3000 Hours	
6	Power requirement	~ 230V AC, 50Hz/60Hz, if 12V/24V DC required, suitable Power adapter must be provided	
7	wavelength ~ Relative intensity Plot graph	Must be provided	

NOTE: Please, quote for relevant accessories or spares.

3 Kr Calibration Source

Sl. No	Parameters	IPR Specifications	Vendor Specification
1	Lamp	Kr	
2	Output Wavelength	430-890nm	
3	Output power in 600µm fiber	> 1 µW	
4	Connector	Preferably SMA 905 connector	
5	Lamp Life	> ~3000 Hours	
6	Power requirement	~ 230V AC, 50Hz/60Hz, if 12V/24V DC required, suitable Power adapter must be provided	
7	wavelength ~ Relative intensity Plot graph	Must be provided	

NOTE: Please, quote for relevant accessories or spares.

4 Deuterium Calibration Source

Sl. No	Parameters	IPR Specifications	Vendor Specification
1	Lamp	Deuterium	
2	Output Wavelength	230-700nm	
3	Output Optical power in 600µm fiber:	> 70 µW	
4	Max. drift:	± 0.5%/hr	
5	Connector	Preferably SMA 905 connector	
6	Warm up	< 35 min	
7	Lamp Life	> 999 Hr	
8	Power requirement	~ 230V AC, 50HZ, if 12V/24V DC required, suitable Power adapter must be provided	
9	wavelength ~ Relative intensity Plot calibration graph	Must be provided	
10	Spectral irradiance curve extending upto visible region which shows a sharp and strong D-alpha (656.1nm)line.	Available	
11	Radiometric calibration	Optional, Vendor may quote for radiometric calibration charges in extra if applicable	

Vendor may suggest/quote any important accessories necessary for the safe operation of the Deuterium lamp.

5 Radiometric Calibration Source

Sl. No	Parameters	IPR Specifications	Vendor Specification
1	Lamp	Quartz Tungsten/ Tungsten Halogen/any continuum lamp	
2	Output Wavelength	350-1100nm	
3	Max Optical power in 600µm fiber	> 4mW	
4	Max. drift:	<. 0.5%/hr	
5	Connector	SMA 905 connector & free space	
6	Warm up time	< 35 min	
7	Lamp Life	> 999 Hr	
8	Power requirement	~ 230V AC, 50HZ, if 12V/24V DC required, suitable Power adapter must be provided	
9	Calibration for	Absolute irradiance (µW/cm ² /nm)	
10	Calibration uncertainty	< ~10%	

6 Integrated sphere

Sl. No	Parameters	IPR Specifications	Vendor Specification
1	Size(Dia)	>=100 mm	
2	Minimum % reflectance	> 95% in 350-1100 nm	
3	Damage Threshold	> 1.5 J/cm ²	
4	Thermal Limit	> 90 C	
5	Number of ports	>= 3	
6	Accessories for operation of integrated sphere, i.e suitable coupling port to SMA connector	Must be provided	
7	At least one of the port diameter	>11mm	

NOTE: Please, quote for relevant accessories or spares.

Bidder's Official Stamp with Sign:

Date: