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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/18-19/159
Date : 06-11-2018

Due on : 20-12-2018 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	PhotoMultiplier tubes with Compatible Socket	12.0 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: Other details are as per attached specification sheet.

Sd/-

Mr. D. Ramesh

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.

Specification of Photo Multiplier Tube with suitable Socket

Spectral response: 185 - 850 nm

Peak sensitivity: At 410 - 430 nm

Detector type: Head on Type

Photo Cathode material: Multialkali

Window material: UV Glass

Photocathode effective area in terms of diameter: ≥ 22 mm

Cathode luminous sensitivity: ≥ 80 $\mu\text{A}/\text{lm}$

Anode luminous sensitivity at : ≥ 70 A/lm

(at about 1200 Volt biasing voltage (typical))

Quantum Efficiency: • $\geq 20\text{-}25$ % between 410nm to 430 nm

• $\geq 5\text{-}6$ % at 600 nm

PMT Gain: $\geq 3 \times 10^5$ at operating voltage within 1000 to 1200 V

Anode dark Current : ≤ 15 nA

Please supply socket with all the PMTs.

Typical spectral response curve of PMT with Voltage gain characteristics curve should be provided for reference with quote.

Note: Luminous sensitivity should be given with a tungsten filament lamp operated at a color temperature of 2856 K is used as the light source.

Compliance Table for Photo-multiplier tube with suitable socket

Specification	IPR requirement	Vendors offer
Spectral response	185-850nm, peaking at about 420 nm	
Peak Sensitivity	At 410 - 430 nm	
Detector type	Head on Type	
Window material	UV glass	
Photo cathode material	Multialkali	
Photocathode effective area in terms of diameter	≥ 22 mm	
Cathode luminous sensitivity	≥ 80 μA/lm	
Anode luminous sensitivity at 1200 Volt biasing voltage (typical)	≥70 A/lm	
Quantum Efficiency Between 410 -430 nm At 600 nm	≥ 20-25% ≥ 5-6 %	
PMT Gain At 1000 to1200 V bias	≥ 3 × 10 ⁵	
Anode dark current	≤ 15 nA	
Accessories optional	Biasing power supply and extra sockets as spares.	
Spectral response curve and Voltage gain characteristics curve.	should be provided for reference with quote	
Luminous sensitivity values provided should be.	With tungsten filament lamp operated at a color temp of 2856K	

Bidder's Stamp and Sign:

Date: