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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, भट, गांधीनगर - 382 428 भारत

दूरभाष: (079) 2396 2020/2021/2028

फैक्स: 91-079-23962277

वेब: [www.ipr.res.in](http://www.ipr.res.in)

NEAR INDIRA BRIDGE, BHAT

DIST. GANDHINAGAR - 382 428 (INDIA)

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## ENQUIRY

ENQUIRY NO : IPR/EQL/19-20/319

Date : 18-11-2019

**Due on : 19-12-2019 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:

### Important Note:

Please note that e-mail quotations are not acceptable however you may send your  
queries (if any) to [localpurchase@ipr.res.in](mailto:localpurchase@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](http://www.ipr.res.in/documents/tender_terms.html) / attached  
herewith.

- 1) Instructions to the bidders & Terms and conditions (refer Form No: **IPR-LP-01.V4**)
- 2) Bidding format

**GST for Goods and Services (IGST/CGST/SGST TAX BENEFITS):** Please refer **clause no: 8** of Form No: **IPR-LP-01.V4**

### QUOTATION SHOULD BE ADDRESSED TO PURCHASE OFFICER ONLY

Sr No	Description	Quantity
1	3 Channel programmable power supplies	8.0 Nos.

Note: 1. DELIVERY TIME : 03 MONTHS.  
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 Attachment

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.

## Specification Sheet of Programmable Power Supplies

S. No.	Particulars	IPR Requirements
1	No. of Channels	<b>3 Independently programmable</b>
2	Output Voltage	<b>Adjustable: 0 to 32 ± 2 V for two Channels</b> <b>Adjustable or fix: 0 to 5V for single channel</b>
3	Output Current	<b>Adjustable: 0 to 3A for all 3 channels</b>
4	Output power	<b>At least 190 W (Shared Power)</b>
5	Over Voltage/Over Current Protection (OVP/OCP) with LED display.	<b>Adjustable for each channel</b>
6	PC interface	<b>Ethernet or USB</b>
7	Setting Resolution: Voltage Current	<b>10 mV or better</b> <b>1 mA or better</b>
8	Setting Accuracy: Voltage Current	<b>&lt;0.06 % + 20 mV</b> <b>&lt; 0.3 % + 10 mA</b>
9	Measurement accuracy: Voltage Current	<b>&lt; 0.06 % + 20 mV</b> <b>&lt; 0.2 % + 10 mA</b>
10	Recovery time after a load step from 10 to 90 for return within a ± 10 mV window:	<b>&lt; 100 μs</b>
11	Display	<b>Screen must display at least 2 Channel's (0 to 32±2 channels) Output; Voltage, Current and Power Simultaneously</b>
12	Memory	<b>Setup memory locations Provision for Storing Device settings</b>
13	Operating temperature	<b>0 to 40 °C</b>
14	Storage temperature -	<b>-10...+70 °C-sci</b>
15	AC Input	<b>230 V±10 %; 50...60 Hz, CAT II</b>
16	Output Ripple and noise(20Hz-20MHz)	<b>Voltage: not more than 1mVrms/5mV</b> <b>Current: not more than 6 mArms</b>
17	Over temperature Coefficient	<b>Supply should automatically cut-off if internal temperature exceeds 85°C</b>
18	Front-end power connections	<b>Power Outputs in the form of banana jacks at front side, One set for each channel</b>
19	Warranty	<b>1 Year</b>

## Specification Sheet of Programmable Power Supplies

20	Push button or equivalent provision on front panel to turn ON/OFF power supply	<b>Require</b>
21	Front panel control to set the voltage and current of each channel	<b>Require</b>
22	The power supply should perform within specifications after continuous operation of 24 Hrs.	<b>Require</b>

## Compliance Form For Programmable Power Supplies

S. No.	Particulars	IPR Requirements	Vendors Specifications " Kindly use technical values avoid using words "yes/complied/ok/agree/confirm"
1	No. of Channels	<b>3 Independently programmable</b>	
2	Output Voltage	<b>Adjustable: 0 to 32 ± 2 V for two Channels</b>  <b>Adjustable or fix: 0 to 5V for single channel</b>	
3	Output Current	<b>Adjustable: 0 to 3A for all 3 channels</b>	
4	Output power	<b>At least 190 W (Shared Power)</b>	
5	Over Voltage/Over Current Protection (OVP/OCP) with LED display.	<b>Adjustable for each channel</b>	
6	PC interface	<b>Ethernet or USB</b>	
7	Setting Resolution: Voltage Current	<b>10 mV or better</b>  <b>1 mA or better</b>	
8	Setting Accuracy: Voltage Current	<b>&lt;0.06 % + 20 mV</b>  <b>&lt;0.3 % + 10 mA</b>	
9	Measurement accuracy: Voltage Current	<b>&lt; 0.06 % + 20 mV</b>  <b>&lt; 0.2% + 10 mA</b>	
10	Recovery time after a load step from 10 to 90 for return within a ± 10 mV window:	<b>&lt; 100 μs</b>	
11	Display	<b>Screen must display at least 2 Channel's (0 to 32±2 channels) Output; Voltage, Current and Power Simultaneously</b>	
12	Memory	<b>Setup memory locations Provision for Storing Device settings</b>	
13	Operating temperature	<b>0 to 40 °C</b>	

## Compliance Form For Programmable Power Supplies

14	Storage temperature -	<b>-10...+70 °C-sci</b>	
15	AC Input	<b>230 V±10 %; 50...60 Hz, CAT II</b>	
16	Output Ripple and noise(20Hz-20MHz)	<b>Voltage: not more than 1mVrms/5mV</b> <b>Current: not more than 6mArms</b>	
17	Over temperature Coefficient	<b>Supply should automatically cut-off if internal temperature exceeds 85°C</b>	
18	Front-end power connections	<b>Power Outputs in the form of banana jacks at front side, One set for each channel</b>	
19	Warranty	<b>1 Year</b>	
20	Push button or equivalent provision on front panel to turn ON/OFF power supply	<b>Require</b>	
21	Front panel control to set the voltage and current of each channel	<b>Require</b>	
22	The power supply should perform within specifications after continuous operation of 24 Hrs.	<b>Require</b>	

**Bidder's official stamp and sign**

**Date:**