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

NEAR INDIRA BRIDGE, BHAT
DIST. GANDHINAGAR - 382 428 (INDIA)
Phone: (079) 2396 2020/2021/2028
Fax : 91-079-23962277
Web : www.ipr.res.in

ENQUIRY

ENQUIRY NO : IPR/EQL/19-20/088
Date : 30-05-2019

Due on : 01-08-2019 by 1:00 PM IST

Reminder-1 Dt: 05-07-2019

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

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-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	Supply of High Vacuum Compatible Cable 16 AWG-4Core	300.0 Mtrs.

2	Supply of High Vacuum Compatible Cable 24AWG-6Core	300.0 Mtrs.

Note: 1.Please quote with complete technical details (Technical compliance sheet and product data sheet).
2.TDS as per CGST Act : As per the provisions mentioned under 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 the purchase order/contracts/work orders exceeds Rs.2.5 Lakhs. 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/tenderseng.html for our future requirement.

Technical Specifications:

Supply of High Vacuum Compatible Cables (16 AWG/4 Core)

#	Parameter	IPR Specification Requirement	Specification Provided by Vendor
1	Cable purpose	DC Motor power line	
2	Conductor material	Copper (≥ 99%) (multi-stranded) **(test report to be attached)**	
3	Tolerance class	class A (± 30 μV or ± 0.5 deg C)	
4	Conductor thickness	16 AWG	
5	Number of Conductors	4 core	
6	Conductor insulation material	Kapton Polyamide	
7	Braiding	Stainless Steel (SS304 or equivalent) Should be non-magnetic	
8	Outer Jacket insulation material	Kapton Polyamide	
9	Voltage Rating	24V DC	
10	Current Rating / conductor	10 A / conductor	
11	Insulation thickness	As per design proposed by vendor	
12	Insulation design	Bi-directional overlapping using fused Kapton Polyamide tape	
13	Conductor insulation color	Natural Kapton (colour code as per ANSI MC96.1)	
14	Overall cable insulation color	Natural Kapton colour	
15	Twist pitch	As per MIL standards for the above cable	
16	High Vacuum compatibility	1e-7 mbar	
17	Outgassing rate of Assembled Conductor	<1 x 10^-9 mbar.l/s/m	

18	Cable end form cross-section	Round	
19	Certificate for Compliance with Vacuum & Outgassing Rate Compatibility	The vendor must agree to either of the following criteria: 1. Vendor will provide a test report and certificate that the cable is compatible High Vacuum environment and has Outgassing rates as per specification above (in Sr. 16 & 17) OR 2. After the enquiry, the Technically Acceptable vendor will have to send a 5m -10m sample of the proposed cable to IPR for Outgassing rate measurement and vacuum compatibility test. After successful testing of Outgassing rate measurement and vacuum compatibility test, at IPR, the final PO will be placed by IPR.	Please Select Your consent (Yes/No) (Yes/No)
20	Pre dispatch inspection	IPR will witness the standard MIL tests on the final product at manufacturer's lab for acceptance and clearance (Note 1)	
21	Total length required (in m)	300	

Technical Specifications:

Supply of High Vacuum Compatible Cables (24 AWG/6 Core)

#	Parameter	IPR Specification Requirement	Specification Provided by Vendor
1	Cable purpose	Hall sensor line	
2	Conductor material	Copper (≥ 99%) (multi-stranded) **(test report to be attached)**	
3	Tolerance class	class A (± 30 μV or ± 0.5 deg C)	
4	Conductor thickness	24 AWG	
5	Number of Conductors	6 core	
6	Conductor insulation material	Kapton Polyamide	
7	Braiding	Stainless Steel (SS304 or equivalent) Should be non-magnetic	
8	Outer Jacket insulation material	Kapton Polyamide	
9	Voltage Rating	24V DC	
10	Current Rating / conductor	10 A / conductor	
11	Insulation thickness	As per design proposed by vendor	
12	Insulation design	bi-directional overlapping using fused Kapton Polyamide tape	
13	Conductor insulation color	Natural Kapton (colour code as per ANSI MC96.1)	
14	Overall cable insulation color	Natural Kapton colour	
15	Twist pitch	As per MIL standards	
16	High Vacuum (compatibility	1e-7 mbar	
17	Outgassing rate of Assembled Conductor	<1 x 10^-9 mbar.l/s/m	

18	Cable end form cross-section	Round	
19	Certificate for Compliance with Vacuum & Outgassing Rate Compatibility	The vendor must agree to either of the following criteria: 1. Vendor will provide a test report and certificate that the cable is compatible High Vacuum environment and has Outgassing rates as per specification above (in Sr. 16 & 17) OR 2. After the enquiry, the Technically Acceptable vendor will have to send a 5m -10m sample of the proposed cable to IPR for Outgassing rate measurement and vacuum compatibility test. After successful testing of Outgassing rate measurement and vacuum compatibility test, at IPR, the final PO will be placed by IPR.	Please Select Your consent (Yes/No) (Yes/No)
20	Pre dispatch inspection	IPR will witness the standard MIL tests on the final product at manufacturer's lab for acceptance and clearance (Note 1)	

21	Total length required (in m)	300	

Special Note:

1. NO PTFE/FEP/EPFE material should be used in the cable
2. Filler material, if used, should comply with the above vacuum and outgassing rate specifications.