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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

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/19-20/124
Date : 18-06-2019

Due on : 25-07-2019 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

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	2 Core PTFE cable	1000.0 Mtrs.
2	4 Core PTFE cable	1000.0 Mtrs.

Note: Note : (1) Unsigned quotations are not acceptable.
Quotation should be submitted duly signed on ALL PAGES
invariably

(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

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.

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2 Core PTFE cable technical specifications

Sr.No	Particulars	IPR specifications
1	Item description	PTFE/Teflon insulated Silver Plated Copper Wire AWG 24/7/32, 2 core individually isolated, twisted, shielded and jacketed.
2	Inner Conductor	Silver plated copper wire
3	No. of strand/strand dia.	7/32 AWG (0.2 mm)
4	Conductor diameter	0.60 mm +/-0.02 mm
5	Core Insulation	PTFE Tape wrapped & fused
6	Finished wire diameter	1.00 mm to 1.21 mm
7	No. of cores	2 core Twisted
8	Insulation color of 2 wire	Red, Black
9	No. of Twist	2 twist or better per Inch
10	Overall shield	Braided silver plated copper
11	Shield Coverage	> 95 % over full length
12	Outer Jacket	PTFE tape 0.25 to 0.30 mm wrapped and fused
13	Outer Jacket Color	Gray
14	Insulation rating	3 KV for 1 second, 600VAC continuous
15	Resistance per 100 meter	8.5 Ω or less (at 20°C)
16	Temperature rating	-65°C to 200°C
17	Minimum continuous length	100 meter or more
18	Total quantity required	1000 meter
19	Technical requirement & testing	As per standard JSS 51034 and JSS51038

4 Core PTFE cable technical specifications

Sr.No	Particulars	IPR specifications
1	Item description	PTFE/Teflon insulated Silver Plated Copper Wire AWG 22/19/34, 4 core individually isolated, two different twisted pair, shielded and jacketed.
2	Inner Conductor	Silver plated copper wire
3	No. of strand/strand dia.	19/34 AWG (0.16 mm)
4	Conductor diameter	0.80 mm +/-0.02 mm
5	Core Insulation	PTFE Tape wrapped & fused
6	Finished wire diameter	1.20 mm to 1.45 mm
7	No. of cores	Total 4 core. Two core Twisted pair (Red and Black) with Two core Twisted pair (Yellow & Green) which makes two pair cable which is also twisted with each other.
8	Insulation color of 2 wire	Red, Black, Yellow & Green
9	No. of Twist	1.5 twist or better per Inch
10	Final twist of two twisted pairs	1 twist or better per Inch
11	Overall shield	Braided silver plated copper
12	Shield Coverage	> 95 % over full length
13	Outer Jacket	PTFE tape 0.25 to 0.30 mm wrapped and fused
14	Outer Jacket Color	Gray
15	Insulation rating	3 KV for 1 second, 600VAC continuous
16	Resistance per 100 meter	5 Ω or less (at 20°C)
17	Temperature rating	-65°C to 200°C
18	Minimum continuous length	100 meter or more
19	Total quantity required	1000 meter
20	Technical requirement & testing	As per standard <u>IS 51034</u> and <u>JSS51038</u>

Compliance Form for 2 Core PTFE cable

Sr.No	Particulars	IPR specifications	Vendor Specifications
1	Item description	PTFE/Teflon insulated Silver Plated Copper Wire AWG 24/7/32, 2 core individually isolated, twisted, shielded and jacketed.	
2	Inner Conductor	Silver plated copper wire	
3	No. of strand/strand dia.	7/32 AWG (0.2 mm)	
4	Conductor diameter	0.60 mm +/-0.02 mm	
5	Core Insulation	PTFE Tape wrapped & fused	
6	Finished wire diameter	1.00 mm to 1.21 mm	
7	No. of cores	2 core Twisted	
8	Insulation color of 2 wire	Red, Black	
9	No. of Twist	2 twist or better per Inch	
10	Overall shield	Braided silver plated copper	
11	Shield Coverage	> 95 % over full length	
12	Outer Jacket	PTFE tape 0.25 to 0.30 mm wrapped and fused	
13	Outer Jacket Color	Gray	
14	Insulation rating	3 KV for 1 second, 600VAC continuous	
15	Resistance per 100 meter	8.5 Ω or less (at 20°C)	
16	Temperature rating	-65°C to 200°C	
17	Minimum continuous length	100 meter or more	
18	Total quantity required	1000 meter	
19	Technical requirement & testing	As per standard JSS 51034 and JSS51038	

Compliance Form for 4 Core PTFE cable

Sr. No	Particulars	IPR specifications	Vendor Specifications
1	Item description	PTFE/Teflon insulated Silver Plated Copper Wire AWG 22/19/34, 4 core individually isolated, two different	
2	Inner Conductor	Silver plated copper wire	
3	No. of strand/strand dia.	19/34 AWG (0.16 mm)	
4	Conductor diameter	0.80 mm +/-0.02 mm	
5	Core Insulation	PTFE Tape wrapped & fused	
6	Finished wire diameter	1.20 mm to 1.45 mm	
7	No. of cores	Total 4 core. Two core Twisted pair (Red and Black) with Two core Twisted pair (Yellow & Green) which makes two pair cable which is also twisted with each other.	
8	Insulation color of 2 wire	Red, Black, Yellow & Green	
9	No. of Twist	1.5 twist or better per Inch	
10	Final twist of two twisted pairs	1 twist or better per Inch	
11	Overall shield	Braided silver plated copper	
12	Shield Coverage	> 95 % over full length	
13	Outer Jacket	PTFE tape 0.25 to 0.30 mm wrapped and fused	
14	Outer Jacket Color	Gray	
15	Insulation rating	3 KV for 1 second, 600VAC continuous	
16	Resistance per 100 meter	5 Ω or less (at 20°C)	
17	Temperature rating	-65°C to 200°C	
18	Minimum continuous length	100 meter or more	
19	Total quantity required	1000 meter	
20	Technical requirement & testing	As per standard JSS 51034 and JSS51038	