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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 2020/2021/2028
Fax : 91-079-23962277
Web : www.ipr.res.in

ENQUIRY

ENQUIRY NO : IPR/EQL/18-19/125
Date : 20-07-2018

Due on : 23-08-2018 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:

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	PTFE/TEFLON Copper wire AWG24/7/32 E,2 SPC. Twisted and Jacketed 2 Core of Silver plated copper wire. As per attached specification only. (IPR CODE:19 CX91 1002)	3500.0 Mtrs.

Note: 1. Delivery within 30 days from the dated of PO. 2. detailed specification and list of parties are attached herewith. 3. please quote your rates only if you are matching with our technical specification.

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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Specifications for PTFE Shielded Jacketed Twisted Pair cable as per JSS51038 standards

Sr No.	Specification:	Value/Remarks
1	Inner Conductor	Silver plated copper wire (Silver coating minimum 1 micron)
2	Inner Conductor No. of Strand/Strand	Dia. : 7/32 AWG (7 x 0.2 mm)
3	Inner Conductor	diameter : 0.60 mm +/-0.02 mm
4	Core Insulation	Spiral Wrapped, fused PTFE tape and jacketed
5	Insulation Rating	3 KV for 1 second, 600VAC Continuous
6	Finished Wire Diameter	1.00 mm to 1.20 mm
7	Insulation Colour of 2 inner cores	Red & White
8	No. of Twist Per Inch	2 Twist or Better, Highly Uniform Over Full Length
9	Shield	Braided Silver Plated Copper
10	Shield Coverage	> 95 % Over Full Length
11	Resistance of core cable	8.3 Ω /100Mtr. or Less (At 20° C)
12	Outer Jacket	PTFE Tape 0.25 MM Wrapped and Fused
13	Outer Jacket Colour	Different colours for every 1000 mtrs.
14	Temperature Rating	-65 to 200 Degree Centigrade
15	Minimum Continuous length of the cable	100 Meter or More
17	Other Specification should be as per Standard JSS 51034 for PTFE Wire and JSS51038 For Multi-core Cable.	Supporting documents (Certified copies of GOVT. Standard approvals) must be submitted along with the quotation

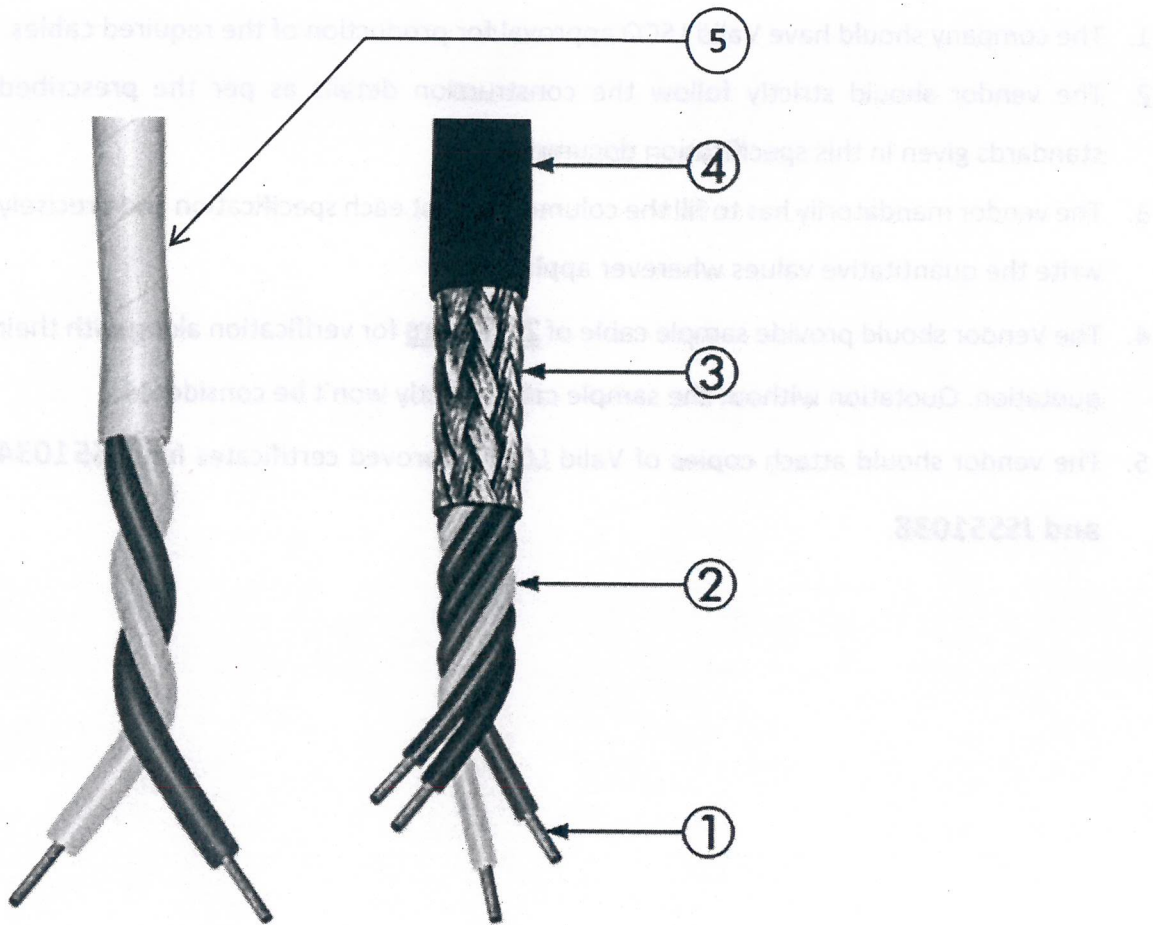
Vendor Checklist (To be submitted along with the quotation)

Material description: PTFE Shielded Jacketed Twisted Pair cable as per JSS51034/ JSS51038 standards

Sr. No.	Specification/Test Conditions	Required Values by IPR	Measured Values of the given 2 mtr. sample	Remarks
1	Inner Cores	Twisted and Jacketed 2 Core of Silver plated copper wire (Silver coating minimum 1 micron)		
2	Inner core gauge	24 AWG - 7/32 (7 strands of 0.2mm +/-0.01mm)		
3	Inner Core diameter	0.60 mm +/- 0.02mm		
4	Inner core Cross sectional area	0.219 mm ²		
5	Insulation rating-continuous	E 600V AC		
6	Insulation rating-transient	3 KV for 1 second		
7	Inner core Insulation outer diameter	1.1mm +/-0.1 mm		
8	Temperature Rating	-65 to 200 Deg C		
9	Current rating of Core	4 Amps min.		
10	Inner core Resistance @20 deg c	8.3 Ohms/100 Meter or less		
11	Shield over Inner twisted and jacketed cores	Braided Silver plated copper		
12	Over all cable diameter	3.0 mm to 3.3 mm		
13	Cable identification labels	Custom labels provided by IPR must be printed at every 1 meter		

Cable Construction details

A brief outline of the construction details of the required cables is given here.



Construction:

- 1. Inner Conductor: Silver Plated Copper wire; AWG-7/32
- 2. Core insulation: Spiral wrapped and fused PTFE tape
- 3. Braided shield: Silver Plated copper wire
- 4. Outer core Jacket: PTFE tape wrapped & fused
- 5. Inner tested pair core Jacket: Spiral wrapped and fused PTFE tape

(D.F.G.)

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Important Terms & Conditions

1. The company should have Valid LSCO approval for production of the required cables.
2. The vendor should strictly follow the construction details as per the prescribed standards given in this specification document.
3. The vendor mandatorily has to fill the columns against each specification and precisely write the quantitative values wherever applicable.
4. The Vendor should provide sample cable of **2 meters** for verification along with their quotation. Quotation without the sample cable strictly won't be considered.
5. The vendor should attach copies of Valid LCSO approved certificates for **JSS51034 and JSS51038.**