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प्लाज्मा अनुसंधान संस्थान
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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
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ENQUIRY

ENQUIRY NO : IPR/EQL/18-19/084
Date : 15-06-2018

Due on : 12-07-2018 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	Supply, Installation and Testing of 3 element voltage operated relay (specified in technical specification SI.No.2.1) along with suitable wall mounted MS enclosure. Coil Rating: 220V DC	5.0 Nos.
2	Supply, Installation and Testing of 3 element voltage operated relay (specified in technical specification SI. No. 2.2) along with suitable wall mounted MS enclosure. Coil Rating: 230V AC	2.0 Nos.
3	Laying of 1.1 kV voltage grade, copper conductors, PVC insulated, armour cables of size: 4Cx2.5 sq. mm on floor/walls with suitable PVC clamps at regular interval between relay enclosure and marshaling box cost of all accessories such as PVC clamps, screws etc. Cable: 1 run x 4C x 2.5 sq. mm	45.0 Mtrs.

4	End termination at each end of 1.1 kV voltage grade, copper conductors, PVC insulated, armour cables of size: 4Cx2.5 sq. mm, including cost of all accessories like lugs & glands of suitable size and rating, insulation tape, sealing compound, panel opening for cable entry etc. (complete)	14.0 Nos.
5	End termination at enclosure of 1.1 kV voltage grade, copper conductors, PVC insulated, armour cables of size: 7Cx2.5 sq. mm, including cost of all accessories like lugs & glands of suitable size and rating, insulation tape, sealing compound, panel opening for cable entry etc. (complete)	7.0 Nos.

Note: Please quote with complete technical details (Technical compliance sheet and product data sheet).

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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Supply, Installation and Testing of 3 element voltage operated relay along with suitable enclosure and associated 1.1 kV grade cable laying and termination

1. Scope of work

The scope covers design, fabrication of MS wall mounted enclosure suitable for the flush mounting 3 elements voltage operated relay, testing of relay at vendor's/his sub-vendor's work, delivery at site, installation, control wiring and testing as specified in this document i.e. civil works related to grouting and fixing of relay enclosure at the specified locations.

Laying and termination of 1.1 kV voltage grades, copper conductors, PVC insulated, armour cable of size: 4Cx2.5 sq. mm and termination of cable of size: 7Cx2.5 sq. mm. (7Cx2.5 sq. mm cable are already laid from LT panel to specified location)

The cable shall be laid either on floor/wall depending on the conditions at site between newly installed relay and marshaling box of converter transformers. The vendor shall supply all accessories including terminating materials, compound tapes, supporting materials cleats, brackets, cable lugs, glands, PVC clamps, screws and cable tags etc. as required to make the installation complete in all respects. All required opening for cable entry at relay enclosure (gland plate) shall be made by the vendor.

Note: Cable shall be provided by IPR

2. Technical specification of 3 element voltage operated auxiliary relay

The auxiliary relay used must be of simple and robust construction with positive action and high mechanical stability suitable for control, alarm and other auxiliary duties in ac or d systems. The relay must be specially designed for industrial control duties requiring high number of switching operations.

2.1 Relay with 220V DC operated coil

Sl.No.	Particulars	Description (Value)
1	Type	3 Element voltage operated electro mechanical relay with H/R CO
2	Indication	Flag Indication
3	Auxiliary Voltage	220-250V DC
4	Contacts	2 N/O H/R
5	Flag	Yes
6	Mounting	Flush

2.2 Relay with 230V AC operated coil

Sl.No.	Particulars	Description (Value)
1	Type	3 Element voltage operated electro mechanical relay with H/R CO
2	Indication	Flag Indication
3	Auxiliary Voltage	220-230V AC
4	Contacts	2 N/O H/R
5	Flag	Yes
6	Mounting	Flush

Technical compliance form:

Sr.No.	Particulars	IPR requirements	Vendors Specification
1.	Type	3 Element voltage operated relay with H/R CO	
	Indication	Flag Indication	
	Auxiliary Voltage	220-250V DC	
	Contacts	2 N/O H/R	
	Flag	Yes	
	Mounting	Flush	
	Preferred Make	Reputed manufacturer Viz. GE-Alstom, C&S, Schneider etc.	
2.	Type	3 Element voltage operated relay with H/R CO	
	Indication	Flag Indication	
	Auxiliary Voltage	220-230V AC	
	Contacts	2 N/O H/R	
	Flag	Yes	
	Mounting	Flush	
	Preferred Make	Reputed manufacturer Viz. GE-Alstom, C&S, Schneider etc.	
3.	Cable Laying	Laying of 1.1 kV voltage grade, copper conductors, PVC insulated, armour cables of size: 4Cx2.5 sq. mm – on floor/walls with suitable PVC clamps at regular interval between relay enclosure and marshaling box cost of all accessories such as PVC clamps, screws etc.	
	Lengh:45 Meters	Cable: 1 run x 4C x 2.5 sq. mm	
4.	Cable Termination	End termination at each end of 1.1 kV voltage grade, copper conductors, PVC insulated, armour cables of size: 4Cx2.5 sq. mm, including cost of all accessories like lugs & glands of suitable size and rating, insulation tape, sealing compound, panel opening for cable entry etc. (complete)	
	Size: 4Cx2.5 sq. mm		
5.	Cable Termination	End termination at enclosure of 1.1 kV voltage grade, copper conductors, PVC insulated, armour cables of size: 7Cx2.5 sq. mm, including cost of all accessories like lugs & glands of suitable size and rating, insulation tape, sealing compound, panel opening for cable entry etc. (complete)	
	Size: 7Cx2.5 sq. mm		
6.	Wall mounted enclosure	The enclosure shall be fabricated from CRCA sheet steel material of standard gauge and powder coated and suitable to mount VAA33 relay. The color of paint shall be Pebble Grey Shade RAL 7032	
7.	Earthing	Body earthing point shall be accessible	
8.	Acceptance test to be performed at IPR site	a. Visual checks b. Functional check of relay.	
9.	Warranty Period	Minimum 1 year warranty should be provided by the vendor from date of acceptance of item.	



Price bid Format

Sr.No.	Description	Unit	Qty	Rate (Rs.)	Total Cost (Rs.)	Applicable GST (%)	GST (Rs.)	Total Cost with GST (Rs.)
1.	Supply of 3 element voltage operated relay (specified in technical specification SI.No.2.1) along with suitable wall mounted MS enclosure <u>Coil Rating: 220V DC</u>	Nos.	05					
2.	Supply of 3 element voltage operated relay (specified in technical specification SI. No. 2.2) along with suitable wall mounted MS enclosure <u>Coil Rating: 230V AC</u>	Nos.	02					
3.	Installation and Testing of 3 element voltage operated relay at specified location .	Nos.	07					
4.	Laying of 1.1 kV voltage grade, copper conductors, PVC insulated, armour cables of size: 4Cx2.5 sq. mm on floor/walls with suitable PVC clamps at regular interval between relay enclosure and marshaling box cost of all accessories such as PVC clamps, screws etc. <u>Cable: 1 run x 4C x 2.5 sq. mm</u>	Mtrs.	45					
5.	End termination at each end of 1.1 kV voltage grade, copper conductors, PVC insulated, armour cables of size: 4Cx2.5 sq. mm, including cost of all accessories like lugs & glands of suitable size and rating, insulation tape, sealing compound, panel opening for cable entry etc. (complete)	Nos.	14					
6.	End termination at enclosure of 1.1 kV voltage grade, copper conductors, PVC insulated, armour cables of size: 7Cx2.5 sq. mm, including cost of all accessories like lugs & glands of suitable size and rating, insulation tape, sealing compound, panel opening for cable entry etc. (complete)	Nos.	7					