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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/19-20/320
Date : 19-11-2019

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

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	EMERY CLOTH PAPER NO.60 MEDIUM, Size : 230 mm x 280 mm, preferred Make: Carborundum, John Okay and its equivalent . (IPR CODE:08 EP91 1001)	250.0 Nos.

2	EMERY CLOTH PAPER NO.120,FINE. Size : 230 mm x 280 mm, Preferred Make: Carborundum, John Okay and its equivalent .(IPR CODE:08 EP91 1002)	250.0 Nos.
3	EMERY CLOTH PAPER NO.180,EXT.FINE. Size : 230 mm x 280 mm, Preferred Make: Carborundum, John Okay and its equivalent . (IPR CODE:08 EP91 1003)	250.0 Nos.

Note: 1. Within 15 Days.
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.

Technical Specifications

For Supply, Factory Acceptance Tests and Site Acceptance Test at IPR of 40 KVA High Voltage High Frequency (HVHF) Transformer.

Technical Specifications of HVHF Transformer:

1. Application: To step-up the voltage
2. Quantity: 2 nos
3. Installation: Indoor
4. Transformer Type: Two winding
5. No. of phases: Single Phase
6. Power Rating : 40 kVA
7. Input (Primary)Voltage: 400 \pm 10% VAC, 1-Phase AC, Quasi Sine wave
8. Frequency of Input Voltage : 20 kHz \pm 5%
9. Output (Secondary) Voltage : 25 kV (rms)
- 10.Voltage Ratio : 1:62.5
- 11.Core Material: Ferrite/Nano-Crystalline/Amorphous/Equivalent
- 12.Winding Insulation Test Voltage :
 - a) 60kV DC between secondary winding to primary winding
 - b) 60kV DC between secondary winding to core
 - c) 3 kV DC between primary winding to core
- 13.Percentage Impedance: max. 10%
- 14.Duty : Continuous
- 15.Regulation : \leq 10 %
- 16.Efficiency : \geq 85 %
- 17.Maximum Temp rise :
 - a. Oil: \leq 50 $^{\circ}$ C above ambient
 - b. Winding: \leq 55 $^{\circ}$ C above ambient
 - c. Ambient Temp: 50 $^{\circ}$ C
- 18.Cooling: ONAN,
- 19.Transformer Oil : Providing required quantity & quality of Transformer oil as per IS 335.
- 20.Terminal Bushings:
 - a. Rated Voltage Class HV (secondary): 36 kV
 - b. Rated Voltage Class LV (Primary): 1.1 kV
 - c. Bushing Type: Epoxy Cast / Porcelain / Equivalent
- 21.Tank : Low Carbon Steel or Equivalent
- 22.Accessories& Fittings :
 - a. Oil level gauge,
 - b. Oil filter/drain valve
 - c. Earthing terminals
 - d. Bi-directional Wheels

Acceptance Tests at Vendor Site prior to Dispatch:

- a. Measurement of winding resistance, inductance, and capacitance.
- b. Insulation Resistance Test.
- c. Dielectric Voltage withstand test.
- d. Voltage Ratio Test
- e. Frequency response analysis from 0 to 100 kHz and measurement of resonance frequency.

Site Acceptance Tests at IPR:

- a. Measurement of winding resistance, inductance, and capacitance.
- b. Insulation Resistance Test.
- c. Physical examination
- d. No-load test.
- e. Voltage Ratio Test.
- f. Frequency response analysis from 0 to 100 kHz and measurement of resonance frequency.

Compliance Data Sheet

For Design, Engineering, Manufacturing, Supply, Factory Acceptance Tests and Site Acceptance Test at IPR of 40 KVA High Voltage High Frequency (HVHF) Transformer.

(To be filled in by the bidder in complete and submitted along with the offer)

S. No.	Parameter Description	Data " Kindly use technical values avoid using words "yes/complied/ok/agree/c onfirm "
1.	Name of the manufacturer:	
2.	Manufacturer's type:	
3.	Transformer application/designation:	
4.	Quantity:	
5.	Type of construction:	
6.	Full load rating:	
7.	Number of phase:	
8.	Cooling:	
9.	Rated no load voltages: a) HV: b) LV:	
10.	Ratings of windings: a) HV winding: b) LV winding:	
11.	Rated percentage impedance at 75 °C, at rated current: a) HV -LV winding: b) Resistance of primary per phase at 75 °C: c) Resistance of secondary per phase at 75 °C:	
12.	Rated frequency:	
13.	Indoor/outdoor installation:	
14.	Whether designed for Series/Parallel operation with other transformers:	
15.	Winding insulation and category as per IS-2026 of graded insulation: a) HV: b) LV:	

16.	Winding insulation test voltages: a) HV – LV winding: b) HV winding - Core c) LV winding and core:	
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Bidder's official stamp and sign

Date:

S. No.	Parameter Description	Data	
17.	Tank cover conventional/bell shaped:	Conventional	
18.	Guaranteed maximum temperature rise at rated kVA, rated voltage applied to primary and ONAN cooling: a) Oil by thermometer: b) Winding by resistance: c) Ambient temperature considered:		
19.	Bushings: a) Make: b) Type: c) Rated voltage class: kV(rms) d) One minute power frequency withstand test voltage: kV(rms) e) Min. clearance in air: mm f) Min. creepage distance: i) Total: mm ii) Protected: mm	HV	LV
20.	Guaranteed load loss at rated current at 75 °C winding temperature:		
21.	Guaranteed no-load losses (core loss & dielectric loss) at 100% rated voltage and frequency:		
22.	Magnetizing current at rated voltage and frequency:		
23.	Core Material and Grade/Type		
24.	Transformer Maximum flux level:		
25.	Current density:		
	a) HV winding: b) LV winding:		
26.	Transformer oil type, grade and quantity :		
27.	Fittings & Accessories Provided (list all fittings and accessories with make/model no etc. attach the detailed catalogues)		
28.	Acceptance tests performed in factory and at site (List all acceptance tests)		
29.	Weights & Dimensions:		
	a) Core (kg): b) Winding (kg): c) Oil (kg) : d) Tank, cover & fittings (kg): e) Total (kg) : f) Un-tanking weight (kg) : g) Overall dimension: (L x W x H): h) Shipping section: i) Size of largest package: (L x W x H): j) Weight of largest package:		
30.	Item wise list of all spares offered for equipment covered in the scope of this tender:	Provide the list of Spare	

08/11/19