



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
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ENQUIRY

ENQUIRY NO : IPR/EQL/19-20/389
Date : 31-01-2020

Due on : 18-06-2020 by 1:00 PM IST

Reminder-1 Dt: 05-03-2020

Reminder-2 Dt: 20-04-2020

Reminder-3 Dt: 19-05-2020

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	10 kVA 3 Phase DG Set	1.0 Nos.

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

Delivery time:- 03 months
Encl: Refer attached sheets for detailed technical specifications.

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.

DG Set Specifications

1) Generator engine Specifications

<u>S.No.</u>	<u>Parameters</u>	<u>Specs</u>
1	Output (KVA)	10 kVA
2	Output Phase	Three Phase
3	Engine rating (BHP)	≥ 16
4	Engine Type	Natural Aspiration
5	Maximum Fuel Tank Capacity	60 L
6	Type of Governor	Electronic
7	Governing Class	A1
8	Fuel	High Speed Diesel

2) Alternator Specifications

<u>S.No.</u>	<u>Parameters</u>	<u>Specs</u>
1	Phase	Three Phase
2	Winding	Copper
3	Speed (RPM)	1500
4	Power	10 kVA
5	Frequency	50 Hz
6	Insulation of Stator and rotor	Class F or above
7	Enclosure protection	IP 66 or IP 65
8	Voltage Regulation from no load to full load @ 0.8 PF	Less than or equal to 1 %
9	Voltage Regulator	Solid State, AVR

3) DG Set Controller Specifications

<u>S.No.</u>	<u>Parameters</u>	<u>Specs</u>
1	Mode of Operation	Both Auto and Manual
2	Remote Start/Stop Control	External PLC-HMI based Start/Stop facility should be available
3	PC Communication	RS232 or RS485 with PC software
4	Current and Voltage Sensing	Mains sensing and generator sensing of current and voltage should be available
5	Alarm and emergency stop	Controller should have alarm for fault condition. Emergency stop switch should be provided.

4) Acoustic Enclosure Specifications

<u>S.No.</u>	<u>Parameters</u>	<u>Specs</u>
1	Acoustic Insulation	The enclosure has to be certified for noise levels of 75 dbA @ 1 mtr distance.
2	Dimension	Shall be suitable for housing 10 kVA DG Set
3	Construction	Should be as per CPCB norms. The construction should be dust, water and oil resistant.

5	Doors	Doors should be provided to access the controller and DG set.
6	Powder Coating	The Acoustic enclosure parts must be powder coated after pre treatment process.
7	Baseframe	The diesel engine & alternator should be perfectly aligned & assembled on sturdily fabricated adequately machined integral base frame made out of high quality MS channels. The base frame should be provided with lifting facility & predrilled foundation holes for installation on anti-vibration mounting (AVM pads).

General Requirements

Scope of Vendor

- 1) Vendor must provide full demonstration of the equipment prior to dispatch of equipment at vendors premise and send the test reports
- 2) All datasheets, operating manual and troubleshooting manuals should be provided by the vendor.

Pre-dispatch Inspection and Testing

- 1) FCIPT personnel will visit the vendor's factory for the pre-dispatch inspection of diesel generator Set with Acoustic enclosure.
- 2) The vendor shall demonstrate all the functions of the system in accordance with the specifications during the inspection.
- 3) Vendor shall perform the load test at from no load to full load condition in accordance with the standard.
- 4) Vendor shall verify the Tested/ calibrated certificates of respective items/system if demanded by authorized experts from FCIPT site at time of Pre-dispatch inspection.
- 5) Noise level tests to be performed as specified.

Installation, Commissioning, and Acceptance test at FCIPT site

- 1) Installation and commissioning shall be carried out by the vendor at the site suggested by FCIPT.
- 2) Supplier shall perform the load test as per IS/IEC Standard.
- 3) Final acceptance would be subject to successful commissioning and satisfactory demonstration of the equipment at site.
- 4) Noise level tests to be performed as specified

Warranty/Gaurantee

At least one year of onsite warranty is required

DG Set Compliance Sheet

1) Generator engine Specifications

<u>S.No.</u>	<u>Parameters</u>	<u>IPR Specs</u>	<u>Vendor Specs</u> Kindly use technical values avoid using words "yes/complied/ok/agree/confirm"
1	Output (KVA)	10 kVA	
2	Output Phase	Three Phase	
3	Engine rating (BHP)	≥ 16	
4	Engine Type	Natural Aspiration	
5	Maximum Fuel Tank Capacity	60 L	
6	Type of Governor	Electronic	
7	Governing Class	A1	
8	Fuel	High Speed Diesel	

2) Alternator Specifications

<u>S.No.</u>	<u>Parameters</u>	<u>IPR Specs</u>	<u>Vendor Specs</u> Kindly use technical values avoid using words "yes/complied/ok/agree/confirm"
1	Phase	Three Phase	
2	Winding	Copper	
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5) Warranty

<u>S.No.</u>	<u>Parameters</u>	<u>IPR Specs</u>	<u>Vendor Specs</u>
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DG Set Vendor List

1	Warranty	Atleast one years of onsite warranty	
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Bidder's official stamp and sign

Date:

