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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](http://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](http://www.ipr.res.in)

### ENQUIRY

ENQUIRY NO : IPR/EQL/19-20/152  
Date : 17-07-2019

**Due on : 08-08-2019 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](mailto: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](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	Coreless DC motors (Without Gear) with encoder and drive (Detailed Specifications Attached)	6.0 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

Encl: Delivery Time:-03 month  
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

# Technical Specifications

## 1. Coreless DC motors (Without Gear) with encoder and drive (Qty: 06 Nos.)

S.No	Parameter	Value	Technical Compliance (To be filled by vendor)
<b>Specifications of Motor</b>			
1.	Rotor	Ironless rotor for Back-drivability	
2.	Type	Brushed – Graphite commutation	
3.	Nominal voltage	Within the range of 24 to 100 V DC	
4.	Stall torque	>1000 mNm	
5.	Weight of Motor	<=500 grams	
6.	Nominal torque (max. continuous torque)	150 mNm or greater	
7.	Max. Continuous speed	>=3000 rpm	
8.	Max. radial load	25N or better, ~3mm from flange	
<b>Specifications of Encoder</b>			
9.	Counts per turn for Encoder	>=1000 pulses per revolution	
10.	Encoder type	3 channel with line driver – it should be supplied as integrated with Motor	
11.	Compatibility of Encoder	Compatible to the quoted motor	
12.	Accessories	All standard accessories must be included	
<b>Specifications of Motor Driver</b>			
13.	Compatibility	Should be compatible to the quoted motor for power, voltage and current rating	
14.	Sensors	Encoder	
15.	Operating Modes	Current, Speed, and Position	
16.	Input/output	Encoder, Digital I/O, Analog I/O	
17.	Interface	CAN or USB or RS232 or EtherCAT	
18.	Accessories	Power Cable, Motor Cable, Necessary Interface cables - RS232 COM Cable/CAN-COM/CAN-CAN Cable, EtherCAT Cables, Encoder Cable	