

# INDIAN INSTITUTE OF TECHNOLOGY GOA

At Goa Engineering College Campus

Farmagudi, Ponda, Goa 403401

E-mail: purchase\_r.d@iitgoa.ac.in

GSTIN:30AABAI1653D2ZE

PAN: AABAI1653D

TAN: BLRI08261B

Enquiry No: IITGOA/R&D/2021-22/004

Date: 03/03/2022

IIT Goa invites sealed quotations in two bid form for the supply of below mentioned item.

| Sl. No. | Description of Item   | Qty. |
|---------|---|------|
| 1       | BLDC Actuator<br>(Detailed specifications attached as Annexure-A) | 04   |

## Terms and Conditions:

1. Quotation must be valid for at least 90 days.
2. The GSTIN should invariably be mentioned in your offer.
3. Kindly attach a compliance certificate along with the technical quote.
4. Prices: Prices should be quoted in INR – F.O.R., IIT Goa basis only.
5. Payment terms: Within 30 days after the delivery and successful installation of item at IIT Goa.
6. The suppliers shall provide the banking details along with their quote on their letterhead duly signed and stamped.
7. **Delivery and Installation:** Within 1 month of getting a confirmed order.
8. **Warranty :**(a) On-site comprehensive warranty (parts + labor + support) of minimum one year. The warranty period shall begin from the date of successful installation of the equipment at IIT Goa.
9. Quotations shall be submitted in two parts.

**Part – I (Technical)** should contain all the technical details and specification of the product. It should contain unpriced bid along with terms and conditions, compliance certificates, proprietary certificates (if applicable), any other certificates/details etc. This envelope should be marked as “Technical Bid”

**Part -II (Financial)** The financial bid of the above item should be in a sealed envelope marked as “Financial Bid” and should contain financial terms and conditions.

10. IIT Goa reserves the right to accept and/or reject any/all bids without assigning any reason in public interest.
11. For any clarification, you may kindly contact Dr. Sheron Figarado (email: sheron@iitgoa.ac.in) and Research & Development office (purchase\_r.d@iitgoa.ac.in) till 15.03.2022
12. All sealed quotations must be super scribed with the tender enquiry number and should reach to the Assistant Registrar (Research & Development), IIT Goa, at Goa College of Engineering Campus, Farmagudi, Ponda, Goa, 403401 by 17.00 Hrs. on or before 24.03.2022
13. It is mandatory for bidders to declare the country of origin.
14. Any bidder proposes to bid for the tendered item which is from a country which shares a land border with India will be eligible to bid only if the bidder is registered with the Competent Authority. The Competent Authority for the purpose of registration shall be Registration Committee constituted by Department for Promotion of Industry and Internal Trade (DPIIT). This is also applicable for bidders bidding for finished goods procured directly/indirectly from the vendors from the countries sharing land border with India.

**Sd/-**  
**Registrar**

### Technical Specifications for BLDC Actuator

|   |   |
|---|---|
| Application                             | Exoskeleton   |
| Motor Type                              | BLDC motor with planetary gear Solution, inbuilt encoder & driver Circuit |
| Weight (g)                              | <500  |
| Rated Torque (Nm)                       | 9-12  |
| Peak Torque (Nm)                        | 15-20   |
| Max Speed@Rated Torque (rpm)            | 200-300   |
| Voltage (V)                             | 24/48   |
| Outer Diameter of motor (mm)            | 80-110  |
| Height of motor/Thickness (mm)          | 30-50   |
| Rated Current (A)                       | 10-15   |
| Peak Current (A)                        | 20-30   |
| <b>Encoder Specification</b>            |   |
| Encoder Accuracy                        | 12 bit or more (Single turn absolute)                                     |
| Communication                           | CAN   |
| <b>Driver Specification</b>             |   |
| Rated Voltage (V)                       | 24/48   |
| Peak Voltage (V)                        | >50   |
| Rated current (A)                       | >15   |
| Peak current (A)                        | >30   |
| Driver frequency (kHz)                  | 10 to 20  |
| Controller input voltage (V)            | 0 to 3.3  |
| Output Power (W)                        | 400 to 500  |
| Working Temperature (in degree Celsius) | -10 to 60   |

## UNDERTAKING FOR BID SECURITY

(To be issued by the bidder on company's letterhead in lieu of EMD)

To,  
The Director,  
Indian Institute of Technology Goa,  
At GEC Campus, Farmagudi, Ponda – Goa

We, M/s ..... (name of the firm), with ref. to enquiry no.

..... dtd ..... hereby undertake that:

- 1) We accept all the terms and conditions of the tender document.
- 2) We accept that, we will not modify our bid during the bid validity period, submit performance guarantee within the stipulated period and honor the contract after award of contract.
- 3) In the event of any modification to our bid by us or failure on our part to honor the contract after final award our firm may be debarred from participation in any tender/contract notified by Indian Institute of Technology, Goa for a period of one year.

Yours faithfully,

(Signature of the bidder with date and seal)

**DECLARATION OF COUNTRY OF ORIGIN**

(To be printed on letterhead of the bidder)

Date: \_\_\_\_\_

To,  
The Director,  
Indian Institute of Technology Goa,  
At GEC Campus, Farmagudi, Ponda ,Goa

Sub: Declaration of country of origin.

We, M/s ..... (Name of the firm), with ref. to enquiry no. ....  
.....are bidding for tendered item (**strike out which is not applicable**)

1. which is from a country which shares a land border with India (**enclosed DPIIT registration certificate**)
2. which is from a country which does not share a land border with India

Country of Origin of Goods being offered: \_\_\_\_\_

“\*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.”

Yours faithfully,

(Signature of the Bidder, with Official Seal)

## PRICE BID FORMAT

(To be printed on letterhead of the bidder)

| S.No.            | Item description  | Qty. | Rate | Currency | Total |
|------------------|---|------|------|----------|-------|
| A                | BLDC Actuator<br>(Detailed specifications attached as Annexure-A) |      |      |          |       |
| B                | GST _____ % of (A)<br><br>HSN Code/ SAC Code _____                |      |      |          |       |
| Grand Total(A+B) |   |      |      |          |       |

Amount in Words \_\_\_\_\_

only.

#HSN Code: "Harmonized System of Nomenclature Code No." and SAC Code: "Service Accounting Codes Code No."

Place:

Signature:.....

Name :.....

Company Name & Address: .....

Date:

Affix Rubber Stamp: .....

**Note: Price bid should be submitted in given format only. For additional information items above format may be typed and used.**

**(To be printed on letterhead of the bidder)**

**Bidders Information**

|          |                                     |  |
|----------|-------------------------------------|--|
| <b>1</b> | Name of the Bidder                  |  |
| <b>2</b> | Address of the Bidder               |  |
| <b>3</b> | PAN No. ( <i>Enclosed copy</i> )    |  |
| <b>4</b> | GST No. ( <i>Enclosed copy</i> )    |  |
| <b>5</b> | E-mail                              |  |
| <b>6</b> | Contact Person's Name & Designation |  |
| <b>7</b> | Mobile No                           |  |