



DEPARTMENT OF CIVIL ENGINEERING
Indian Institute of Technology Madras
I.I.T.P.O., MADRAS-600 036

Form for Inviting Quotations

Ref. No. CE/STORES/2019/ Coordinated Lifting Machines: Specifications for
6 Axis Articulated Robot With Software

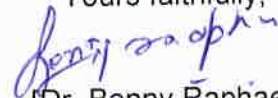
Tender Starting Dt. 25.09.2019
DUE DATE: 16.10.2019 – 4.00 P.M.

To

Dear Sir,

1. Quotations are invited in duplicate for the various items shown below / overleaf / **Enclosed list**.
2. **The Quotations duly sealed and superscribed on the envelope with the reference No. and due date, should be addressed to the undersigned and contain in 2 bid system i.e. Technical bid and Commercial bid in two separate envelopes should be enclosed in a single envelope only so as to reach on or before the due date stipulated above.**
3. The Quotations should be valid for ninety days from the due date and the period of delivery required should also be clearly indicated.
4. If the item is under DGS&D Rate contract No. and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price (Please note that we are not Direct Demanding Officers). If so please send copy of the RC.
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for, should be submitted free of charges, and collected back at the supplier's expenses.
6. Local Firms : Quotations should be for free delivery to this Institute. If Quotations for Ex-Godown delivery charges should be indicated separately.
7. Firms Outside Madras : Quotations should be for F.O.R. Madras. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If Ex-Godown, packing, forwarding and freight charges must be indicated.
8. The rates of GST and other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for GST/General Taxes will be admitted at any stage and on any ground whatsoever. IIT Madras is eligible for concessional GST. Relevant certificate will be issued. In case of import supply the price should be quoted without custom duty. I.I.T. Madras is exempted from levy of IGST on Imports and eligible for concessional custom duty (not exceeding 5%) and the price should be quoted on **EX-WORXS** and **CIP** basis indicating the mode of shipment.
9. Goods should be supplied carriage paid and insured.
10. Goods shall not be supplied without an official supply order.
11. Payment: Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later.

Yours faithfully,


[Dr. Benny Raphael]

- Note: (i) Quotation should be sent by SPEED POST only or to be delivered directly to the concerned.
(ii) Firms are requested to submit the specifications of their product along with supporting technical Documentation / brochure instead of reproducing the specifications sent by us.

Dr. BENNY RAPHAEL
Professor
Bldg. Tech. & Constr. Mgmt. Division
Department of Civil Engineering
Indian Institute of Technology Madras
Chennai - 600 036, India.

Specifications for 6 Axis Articulated Robot with Software

This document contains the specifications for the work involving supply, installation, commissioning and maintenance of 2 numbers of robotic arm assemblies, to the Building Technology and Construction Management Division, Department of Civil Engineering, IIT Madras. The vendor should have at least two years' experience in the supply and installation of such equipments. The vendor should have a competent representative in Chennai who should be able to answer queries related to the equipment.

SUPPLY OF EQUIPMENT/ MATERIAL

The following equipments have to be supplied by the vendor to the site. The specifications of equipment/material required by the client are given below.

Technical specifications

1. 6 AXIS ARTICULATED ROBOT with SOFTWARE

SNo	Specifications
1	For ROBOTIC ARM (2 numbers)
	Payload: min 2.5 kg
	Resolution: 0.1 degrees
	Position accuracy: +/- 1 mm
	No of Axes: 6 degree of freedom
	Horizontal Reach: 0.5 m
	Vertical Reach: 0.4 m
	Joint Actuators: DC Servo geared motors
	Gripper: Pneumatic
	Total weight of the robotic system: less than 50 kg
	Appropriate software for operating the robotic arm in a user friendly manner


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2	Stabilizer (1 number)
	Servo stabiliser 3 KVA, Single phase
3	Compressor (1 number)
	100 Litre tank capacity, 8-10 Bar Pressure

DOCUMENTATION

The documentation in English should contain, use and maintenance manual, drawings of the main items, spare parts list.

INSTALLATION

The vendor should install the equipments on site at their cost. Installation, testing and commissioning have to be done in the presence of technical persons from IIT Madras.

WARRANTY

The warranty should be for minimum Twelve (12) months from the date of the acceptance test of the equipment. It includes all the cost of repair or replacement of the eventual faulty parts.

GUIDELINES

- Delivery within 12 weeks from the date of receipt of Purchase order & payment
- Maintenance contract should be included for a period of 3 years.
- All the parts used should be non-corrosive and should come with a minimum on-site warranty of 1 year.
- All taxes should be mentioned clearly and included in the quotation. IIT Madras is eligible for concessional GST of 5% for research purposes
- Clarifications should be raised before the submission of the sealed envelope

Henry Joseph