



Telephone: 22574416 EN

Ext: _____

Department of Electrical Engineering
Indian Institute of Technology, Madras
I.I.T.P.O., MADRAS - 600 036.

Ref. No.

ELE	AMIT	2016	SPIN	coating machine.
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Date 30/11/2016

Under certificate of posting

O/c

Due date: 16/12/2016

Dear Sirs,

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 so as to reach him on or before the due date stipulated above.
3. The Quotations should be valid for sixty 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, Rate Contract Number 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. If so, please send copy of the R.C. (Please note that we are not Direct Demanding Officers).
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable.
6. Local Firms: Quotations should be for free delivery to this institute. If Quotations are for Ex-Godown, delivery charges should be indicated separately.
7. Firms outside Chennai: Quotations should be for F.O.R Chennai. 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 rate of Sales/General Taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, claim for Sales/General Taxes will be admitted at any stage and on any ground whatsoever. The taxes leviable should take into consideration that we are entitled to have Concessional Sales Tax applicable to non-Government Educational Institutions run with no profit motive for which a commission. Sales Tax certificates will be issued at the time of final settlement of the bill
9. Good 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 made payment within 30 days from the date of receipt of bill/acceptance of goods, whichever is later.

Specification is enclosed and Quotation
to be sent below addresses.

DR. AMITAVA DASGUPTA
PROFESSOR

ELECTRICAL ENGINEERING DEPARTMENT

IIT MADRAS

CHENNAI - 600 036.

Yours faithfully,

Amitava Dasgupta

HEAD / Project Co-Ordinator

**DETAILED SPECIFICATION FOR
Spin coating Machine**

Mounting:	Table top version
Bowl material:	NPP. Coated metal bowl is not acceptable
Coating materials:	PEDOT:PSS,P3HT:PCBM,Methylammonium Lead Iodide, DMF, Gamma Butyrolactone solvents
Substrate size:	5mm Up to 160mm diameter
Substrate mount: (2 Nos.)	Vacuum chuck with suitable adapters
Maximum speed:	10,000 rpm or higher
Spin Speed accuracy:	± 0.1 rpm
Acceleration	20,000 rpm/sec or higher
Programmable step time:	1-9999 sec.
Recipe control:	20 or more recipes with >40 steps each
Removal of chemical waste after chemical process	Transparent antistatic lid & bowl liner
Safety:	System should be equipped with safety interlocks
Electrical:	AC 230V, 50 Hz
Vacuum pump (2 Nos)	Oil free vacuum pump for Vacuum and N2 purge
Warranty:	1 year
Product certification	Must have CE or equivalent certificate

Amitan Dasgupta