

Office of the Dean Research and Consultancy
Indian Institute of Engineering Science & Technology (IEST), Shibpur
Howrah-711 103

Project Code: DRC/DST/CEGESS/PC/007/18-19

School of Advanced Materials Green Energy & Sensor Systems
Indian Institute of Engineering Science & Technology (IEST), Shibpur
Howrah-711 103

Ref.: Tender Advt. No. CGE 1808, dated 21.02.2023

Notice Inviting Quotations

Sealed quotations are invited for the supply of:

Item. **Trimethylaluminum (TMA) Precursor (min. 98% pure).**

As per the following technical specification. The technical specification can be downloaded from the website. The document can also be obtained from the School of Advanced Materials Green Energy & Sensor Systems (**Contact: Prof. Partha Chaudhuri / Prof. H. Saha**) between 10.30 a.m. and 5.30 p.m. on all working days. The invitation is valid for 07 working days from the date of publication of this notice.

(A. Code DRC-T033/22-23)

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SECTION I: TERMS & CONDITIONS

1. The last date of receipt of quotation is valid **for 07 working days** from the date of publication of this notice. Quotations received later will not be entertained under any circumstances.
2. Potential supplier is to submit the quotations in Sealed Cover to the School of Advanced Materials Green Energy & Sensor Systems in the following address:

**Prof. Partha Chaudhuri / Prof. H. Saha
SAMGESS
IEST, Shibpur
Howrah-711 103, India.**

3. **Item name& tender code must be mentioned on cover otherwise the quotation will not be accepted.**
4. The price quoted should be inclusive of all Taxes in INR, duties and levies. Inclusion of Tax/Levy at a later stage will not be accepted. Freight, Insurance charges should be clearly indicated. If GST is chargeable then price quoted should be inclusive of GST in INR.@18%.
Price should be CIF, IEST, Shibpur basic. **(Clearing charges and Custom Duty will not be paid extra, it should be include with base price.**
5. Vendor should have proven track record of supply in Govt. / Non-Govt Organization.
6. Commercial Papers duly signed & must be attached.
7. Quotation has to be kept valid for acceptance for a period of 6 months without any modifications in its terms and conditions.
8. Documents to be submitted with the Quotations :
 - General Conditions (Section I) and Important Instruction (Client list) in original duly signed by the Proprietor/ Partner/ Director or any authorized person of the company as a token of acceptance of Terms and Conditions of Tender.
 - Latest Income Tax, Sales Tax, Professional Tax, CST clearance certificates and copy of valid Trade License. (Photo copy duly signed) (Compulsory).
9. IEST, Shibpur, reserves the right to accept / reject all or any of the tenders without assigning any reason whatsoever.
10. Custom Duty Exemption Certificate will be provided by the IEST (If applicable).
11. **No advance payment will be made before the delivery of the item.**

SECTION II: TECHNICAL SPECIFICATIONS :-

Item.

Trimethylaluminum (TMA) Precursors

Trimethylaluminum Precursors for Al₂O₃ deposition in MW-PECVD

- **Trimethylaluminum (TMA)** precursors (min. 98% pure) Packed in Brass Ball Valve Type-II system, non returnable Cylinders, compatible to PECVD process.

- **Quantity:** 100 gm

- **Specification as under:**

Molecular Formula:	C ₃ H ₉ Al
Formula Weight:	72.09
Chemical Formula:	(CH ₃) ₃ Al
Color and Form:	Colorless and Liquid.
Melting Point:	15.4°C
Boiling Point:	20°C/8 mm,
Flash Point:	1.4°F
Density:	0.752 (20°C)
% Al:	37%
Assay:	99.90
Hydrocarbon:	0.7%
Cl (%):	<0.05%
O (ppm):	< 23ppm
Si (ppm):	<10ppm