

Global Tender notification for the procurement of
“Bis(ethylcyclopentadienyl)scandium chloride ((EtCp)2ScCl) and MIDGARD
bubbler”

(GTE Approval No. F. No. 51-03/2023-TS.VII)

This is an FRQ (Request for call) for the procurement of “Bis(ethylcyclopentadienyl)scandium chloride ((EtCp)2ScCl) and MIDGARD bubbler” for Centre for Nano Science and Engineering (CeNSE) at Indian Institute of Science (IISc), Bangalore. IISc is India’s best research institute and CeNSE is multidisciplinary research department with the best academic fabs in the world that houses a 14,000 sq. ft cleanroom.

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|---|-----------|----------------------|--|
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| 2 | Section 2 | Eligibility Criteria | As specified by IISc |
| 3 | Section 3 | Terms and Conditions | As specified by IISc |
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| 5 | Section 5 | Technical Bid | Annexure 1: Bidder details |
| | | | Annexure 2: Declaration regarding experience of bidder |
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Section 1 - Bid Schedule

| | | |
|---|---|---|
| 1 | Tender No | CeNSE/SRN/01/23-24 |
| 2 | Tender Date | 22.12.2023 |
| 3 | Item Description | Supply of Bis(ethylcyclopentadienyl)scandium chloride ((EtCp) ₂ ScCl) and MIDGARD bubbler for MOCVD |
| 4 | Tender Type | Two bid system (i) Technical Bid (Part A) (ii) Commercial Bid (Part B) |
| 5 | Place of tender submission | Chairperson Office First Floor Centre for Nano Science and Engineering Indian Institute of Science, Bangalore 560012 |
| 6 | Last Date & Time for submission of tender | 12.01.2024 |
| 7 | For further clarification | Prof. Srinivasan Raghavan Room No: SF 06 Centre for Nano Science and Engineering Indian Institute of Science, Bangalore 560012 Email: sraghavan@iisc.ac.in Phone: +91-80-2293 3291 |

Section 2 – Eligibility Criteria

Prequalification criteria:

1. The Bidder's firm should have existence for a minimum of 5 years. (Enclose Company Registration Certificate)
2. The Bidder should have qualified technical service personnel for the instrument(s) based in India.
3. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions as per -Annexure 4.
4. The Bidder must not be blacklisted/banned/suspended or have a record of any service-related dispute with any organization in India or elsewhere. A declaration to this effect has to be given as per Annexure 3.

Section 3 – Terms and Conditions

A) Submission of Tender:

1. All documentations in the tender should be in English.
2. Tender should be submitted in two envelopes (two bid system).
 - a. Technical Bid (Part-A) – Technical bid consisting of all technical details and check list for conformance to technical specifications.

The technical proposal should contain a technical compliance table with 5 columns.

- i. The first column must list the technical requirements, in the order that they are given in the technical requirement below.
 - ii. The second column should provide specifications of the instrument against the requirement. Please provide quantitative responses wherever possible.
 - iii. The third column should describe your compliance with a “Yes” or “No” only. Ensure that the entries in column 2 and column 3 are consistent.
 - iv. The fourth column should state the reasons/explanations/context for deviations, if any.
 - v. The fifth column can contain additional remarks from the OEM. You can use this opportunity to highlight technical features, qualify response of previous columns, or provide additional details.
 - vi. Any additional capabilities or technical details, that you would like to bring to the attention of the purchase committee, can be listed at the end of the technical table.
- b. Commercial Bid (Part-B) – Indicating item wise price for the items mentioned in the technical bid, **as per the format of quotation provided in tender**, and other commercial terms and conditions.

3. The technical bid and price bid should each be placed in separate sealed covers, superscripting on both the envelopes the tender no. and the due date. Both these sealed covers are to be placed in a bigger cover, which should also be sealed beduly superscripted with the Tender No, Tender Description, and Due Date.
4. The SEALED COVER superscripting tender number / due date & should reach the Chairperson’s office, Centre for Nanoscience and Engineering, Indian Institute of Science, Bangalore – 560012, India, on or before due date mentioned in the tender notice. In case the due date happens to be holiday, the tender wil be accepted and opened on the next working day. If quotation cover is not sealed, it will be rejected.
5. All queries are to be addressed to the person identified in “Section 1 – Bid Schedule” of the tender notice.
6. GST/other taxes, levies etc., are to be indicated separately. The BIDDERS should mention GST Registration and PAN in the tender document (Indian Bidders only).
7. If price is not quoted in Commercial Bid as per the format provided in tender document thebid is liable to be rejected.

8. The Institute reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to the award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders.
9. Incomplete bids will be summarily rejected.
10. The decision of purchase committee will be final.

B) Cancellation of Tender:

Notwithstanding anything specified in this tender document, IISc Bangalore, in its sole discretion, unconditionally and without having to assign any reason, reserves the rights:

- a. To accept OR reject lowest tender or any other tender or all the tenders.
- b. To accept any tender in full or in part.
- c. To reject the tender, offer not confirming to the tender terms.

C) Validity of the Offer:

The offer shall be **valid 90 Days** from the date of opening of the commercial bid.

D) Evaluation of Offer:

1. The technical bid (Part A) will be opened first and evaluated.
2. Bidders meeting the required eligibility criteria as stated in Section 2 of this document shall only be considered for Commercial Bid (Part B) opening. Further, agencies not furnishing the documentary evidence as required will not be considered.
3. Pre-qualification of the bidders shall not imply final acceptance of the Commercial Bid. The agency may be rejected at any point during technical evaluation or during commercial evaluation. The decision in regard to acceptance and / or rejection of any offer in part or full shall be the sole discretion of IISc Bangalore, and decision in this regard shall be binding on the bidders.
4. The award of contract will be subject to acceptance of the terms and conditions stated in this tender.
5. Any offer which deviates from the vital conditions (as illustrated below) of the tender is liable to be rejected:
 - a. Non-submission of complete offers.
 - b. Receipt of bids after due date and time and or by email / fax (unless specified otherwise).
 - c. Receipt of bids in open conditions.

6. In case any BIDDER is silent on any clauses mentioned in these tender documents, IISc Bangalore shall construe that the BIDDER had accepted the clauses as of the tender and no further claim will be entertained.
7. No revision in the terms and conditions quoted in the offer will be entertained after the last date and time fixed for receipt of tenders.
8. Lowest bid will be calculated based on the total price of all items tendered for Basic equipment along with accessories selected for installation, operation, preprocessing and post processing, optional items, recommended spares, warranty, annual maintenance contract.

E) Purchase Order:

1. The order will be placed on the bidder whose bid is accepted by IISc based on the terms & conditions mentioned in the tender document.
2. The quantity of the items in tender is only indicative. IISc, Bangalore reserves the right to increase /decrease the quantity of the items depending on the requirement.
3. If the quality of the product and service provided is not found satisfactory, IISc, Bangalore reserves the right to cancel or amend the contract.

F) Delivery:

The bidder shall provide the lead time to delivery, Bangalore from the date of receipt of purchase order. The precursor should be delivered within 16-20 weeks from the date of receipt of purchase order. The supply of the items will be considered as effected only on satisfactory, inspection of the system and inspection of all the items and features/capabilities tested by the IISc, Bangalore. No partial shipment is allowed.

G) Payment Terms:

The payment will be through a Letter of Credit and the milestone of the payment will be determined after mutual discussions with the successful bidder.

H) Statutory Variation:

Any statutory increase in the taxes and duties subsequent to bidder's offer, if it takes place within the original contractual delivery date, will be borne by IISc, Bangalore subject to the claim being supported by documentary evidence. However, if any decrease takes place the advantage will have to be passed onto IISc, Bangalore.

I) Disputes and Jurisdiction:

Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Bangalore, India.

J) General:

1. All amendments, time extension, clarifications etc., within the period of submission of the tender will be communicated electronically. No extension in the bid due date/time shall be considered on account of delay in receipt of any document(s) by mail.
2. The bidder may furnish any additional information, which is necessary to establish capabilities to successfully complete the envisaged work. It is however, advised not to furnish superfluous information.
3. Any information furnished by the bidder found to be incorrect, either immediately or at a later date, would render the bidder liable to be debarred from tendering/taking up of work in IISc, Bangalore.

Section 4 – Technical Specifications

A. Technical Specifications of the Scandium precursor for a MOCVD reactor

| S.No | Specification | Essential/Optional |
|------|---|--------------------|
| 1. | Chemical composition: (EtCp) ₂ ScCl, MIDGARD | Essential |
| 2. | Quantity: 50 ml each | Essential |
| 3. | CAS-No: 2845240-61-9, | Optional |
| 4. | EC-No: | Optional |
| 5. | Impurities levels: < 0.01% | Essential |
| 6. | Molecular Weight: 266.71 g/mol, | Optional |
| 7. | Quality: Development Grade | Essential |
| 8. | State of matter: Solid, Liquid respectively | Essential |
| 9. | Stability: Stable under inert gas | Essential |
| 10. | ADR/RID-class: UN 3395, UN 3399 respectively | Essential |
| 11. | Storage Class (TRGS 510): 4.1B, 4.3 respectively | Essential |
| 12. | IMDG -class: UN 3395, UN 3399 respectively | Essential |
| 13. | ICAO/IATA-class: UN 3395, UN 3399 respectively | Essential |
| 14. | Bubbler material: Electropolished stainless steel | Essential |
| 15. | Bubbler Volume: 150 ccm cyl. | Essential |
| 16. | 1/4" VCR Male DP Valve (Ultra High Purity) and Female Nut | Essential |

Shipping: The cost of shipping up to IISc Bangalore should be included in the quote. IISc Bangalore will help with customs clearance at Bangalore Airport.

Section 5 - Technical Bid

The technical bid should furnish all requirements of the tender along with all annexure in this section and submitted to

The Chairperson,
Attn: Prof. Srinivasan Raghavan
Centre for Nano Science and Engineering
Indian Institute of Science
Bangalore – 560012, India

Annexure-1:

Details of the Bidder

The bidder must provide the following mandatory information & attach supporting documents wherever mentioned:

Details of the Bidder

| Sl. No | Items | Details |
|--------|---|---------|
| 1. | Name of the Bidder | |
| 2. | Nature of Bidder (Attach attested copy of Certificate of Incorporation/ Partnership Deed) | |
| 3. | Registration No/ Trade License, (attach attested copy) | |
| 4. | Registered Office Address | |
| 5. | Address for communication | |
| 6. | Contact person- Name and Designation | |
| 7. | Telephone No | |
| 8. | Email ID | |
| 9. | Website | |
| 10. | PAN No. (attach copy) | |
| 11. | GST No. (attach copy) | |

Signature of the Bidder

Name
Designation, Seal

Date:

Annexure-2:

Declaration regarding experience

To,
The Chairperson,
Centre for Nanoscience and Engineering,
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXXXXXX

Dated: XXXXX

Supply of Bis(ethylcyclopentadienyl)scandium chloride ((EtCp)₂ScCl) and MIDGARD bubbler to CeNSE, IISc, Bangalore.

Sir,

I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm has-----years of experience in supplying precursors in bubblers for MOCVD applications.

(Signature of the Bidder)

Printed Name

Designation, Seal Date:

Annexure-3:

Declaration regarding track record

To,
The Chairperson,
Centre for Nano Science and Engineering
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXXXX

Dated: XXXXX

Supply of Bis(ethylcyclopentadienyl)scandium chloride ((EtCp)₂ScCl) and MIDGARD bubbler to CeNSE, IISc Bangalore.

Sir,
I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company/ firm is not currently debarred /blacklisted by any Government / Semi Government organizations / institutions in India or abroad. I further certify that I'm competent officer in my company / firm to make this declaration.

Or

I declare the following

| Sl.No | Country in which the company is Debarred /blacklisted / case is Pending | Blacklisted / debarred by Government / Semi Government/Organizations /Institutions | Reason | Since when and for how long |
|-------|---|--|--------|-----------------------------|
| | | | | |

(NOTE: In case the company / firm was blacklisted previously, please provide the details regarding period for which the company / firm was blacklisted and the reason/s for the same).

Yours faithfully,
(Signature of the Bidder)

Name
Designation, Seal

Date:

Annexure – 4:

Declaration for acceptance of terms and conditions

To,
The Chairperson,
Centre for Nano Science and Engineering
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXX
Dated: XXXX

Supply of Bis(ethylcyclopentadienyl)scandium chloride ((EtCp)₂ScCl) and MIDGARD bubbler to CeNSE, IISc Bangalore.

Sir,

I've carefully gone through the Terms & Conditions as mentioned in the above referred tender document. I declare that all the provisions of this tender document are acceptable to my company. I further certify that I'm an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours faithfully,

(Signature of the Bidder)
Name
Designation, Seal

Date:

Annexure – 5:

Details of items quoted:

- a. Company Name
- b. Product Name
- c. Part / Catalogue number
- d. Product description / main features
- e. Detailed technical specifications
- f. Remarks

Instructions to bidders:

1. Bidder should provide technical specifications of the quoted product/s in detail.
2. Bidder should attach product brochures along with technical bid.
3. Bidders should clearly indicate compliance or non-compliance of the technical specifications provided in the tender document.

Section 6 – Commercial Bid

The commercial bid should be furnished with all requirements of the tender with supporting documents as mentioned under:

| S.No | Description | Cat. Number | Quantity | Unit Price | Sub total |
|------|--|-------------|----------|------------|-----------|
| 1. | Essential items noted in the technical specification | | | | |
| 1.a | ... (details of essential items) | | | | |
| 1.b | ... | | | | |
| | | | | | |
| 2. | Optional items noted in the technical specification | | | | |
| 2.a | ... (details of essential items) | | | | |
| 2.b | ... | | | | |
| | | | | | |
| 3. | Cost of Insurance and Airfreight | | | | |
| 4. | CIP/CIF IISc, Bengaluru | | | | |

Any additional items

| S.No | Description | Cat. Number | Quantity | Unit Price | Sub total |
|------|-------------|-------------|----------|------------|-----------|
| | | | | | |

Addressed to

The Chairperson,
Attn: Prof. Srinivasan Raghavan
Centre for Nano Science and Engineering
Indian Institute of Science
Bangalore – 560012, India

Section 7 – Checklist

(This should be enclosed with technical bid- Part A)

The following items must be checked before the Bid is submitted:

1. Sealed Envelope “A”: Technical Bid

- 1. Section 5- Technical Bid (each page signed by the authorized signatory and sealed) with the below annexures:**
 - a. Annexure 1: Bidders details**
 - b. Annexure 2: Declaration regarding experience**
 - c. Annexure 3: Declaration regarding clean track record**
 - d. Annexure 4: Declaration for acceptance of terms and conditions**
 - e. Annexure 5: Details of items quoted**
- 2. Copy of this tender document duly signed by the authorized signatory on every page and sealed.**

2. Sealed Envelop “B”: Commercial Bid

Section 6: Commercial Bid

Your quotation must be submitted in two envelopes: Technical Bid (Envelope A) and Commercial Bid (Envelope B) super scribing on both the envelopes with Tender No. and due date and both of these in sealed covers and put in a bigger cover which should also be sealed and duly super scribed with Tender No., Tender description & Due Date.