



Request for quote “Exhaust Hookup and Additional works “

- The GEECI (Gallium Nitride Ecosystem Enabling Centre and Incubator) at SID-Indian Institute of Science is seeking bids from qualified bidders for Exhaust Hookup and Additional works. The details are listed in table below.
- Companies need to submit two bids, a technical bid and a commercial bid, in two separate sealed envelopes. The bids should be submitted no later than 21 days from the date of posting of this tender, as listed on the website date/time stamp, and by 5 pm on the 21st day or next weekday in case the 21st day falls on a weekend or a national holiday.
- Both technical and commercial bids should be addressed to “The Chief Executive, SID, IISc, Bangalore 560012.” GST # 29AAATS5333E1ZJ”
- The envelopes should be addressed to “Prof. Srinivasan Raghavan, CeNSE, IISc, Bangalore, 560012” and submitted to the office at CeNSE, IISc in Room No. GF 15 between 9 am and 5 pm.
- All questions regarding this tender should be addressed to Mr.Raghupathy at the email address raghupathyn@iisc.ac.in
- Post such submission all vendors should send an email to sraghavan@iisc.ac.in with the subject line: “GEECI_Bidder’s name Tool Name” to inform him of the submission within one day.
- The Exhaust Hookup and Additional works sought will be at the Centre for Nano Science and Engineering (CeNSE), Indian Institute of Science (IISc). IISc is India’s No.1 institution on higher learning and the Centre for Nano Science and Engineering is home to one of the best academic fabs in the world.
- The technical response, corresponding to the offered, should be in the form of a compliance table with at least 5 columns. Serial number in column 1. Each of the numbered technical items below should be addressed in a separate row of the table in column 2. Compliance to this requirement, in Yes/No, deviation from it and justification should be provided in the neighboring columns 3-5. Post the opening of a hard copy of the technical bid the committee will request a soft copy of the files for further processing. Companies should NOT mail soft copies of the files unless specifically requested for.
- Detailed technical specifications of the Exhaust being offered should be included.
- 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.
- If multiple systems can fulfil the requirements, vendors can submit multiple bids.
- Vendors are encouraged to highlight the advantages of their system from the competitors
- The commercial bid should be broken up to the maximum extent possible into separate items with a cost against each to enable better comparison of price for various configurations across the bidders. As an option, please provide itemized cost for any suggested accessories/add-ons that may enhance the usability, capability, accuracy, or reliability. Vendors are encouraged to quote for as many add-ons as their portfolio permits.



Terms & Conditions:

1. The successful bidder or Vendor should have a proven experience in design and installation of the facilities for semiconductor tools.
2. **The bidders are advised to make a site visit prior to bidding in order to ascertain the exact quantum of work to be undertaken and be able to quote their best for the specification and quantity planned.**
3. The bidder should submit test certificates for major OEM components as required by the user during the supply of materials.
4. Installation & Commissioning: Bidder should be responsible for installation / commissioning and for after sales service during the warranty period and thereafter as mentioned in the order.
5. Any other item/work not specified above but required for completion of intended work shall be deemed to be part of the scope of work to be executed by the successful bidder.
6. Bidder should bring tools, consumables and manpower required for implementation of the work.
7. All the industrial safety practices must be followed during implementation of the project
8. Bidder should warranty entire Exhaust work and other installed service for a period of 1 year for all materials and machines. During the warranty period bidder should monitor the complete facility and installed services and carry out necessary corrections, repair, or replacements, if required.
9. Documentation to be submitted with a set of as built drawing after completion of the work including OEM test reports of critical components.

Technical Requirements

SI #	Item	Description
1.	Application	Exhaust for a semiconductor foundry process. Project plans to connect the existing Exhaust gas distribution network to the new tool. The work will involve cutting into exiting lines and extending them. Ability to maintain during this job is crucial and the most important aspect of the order. We cannot tolerate any contamination due to operator error or inexperience.
2.	Industry type	Semiconductor research laboratory
4.	Process Exhaust tubing	Seamless SS-316L electropolished tubes with roughness ≤ 22 Ra. Pipe Sizes suitable for KF25, KF40, KF50 and ISO 63 and Flexible bellows of suitable size shall be used at the tool and Pump ends
5.	Cabinet Exhaust for Equipment, Scrubber, VMB, Gas cabinet, T-box and purifiers	SS-304, 100mm, 150mm, 200mm, 300mm with volume control dampers
Additional work		
6.	MOCVD reactor Relocation	Includes gas line modification, exhaust modification, Cabinet exhaust, Process exhaust
7.	New MOCVD reactor	1. Clean room wall panel modification, 2. General Exhaust modification 3. Cabinet and scrubber exhaust with SS304-Dia350mm
8.	Chilled water line modification	
9.	Welding work	Vendor must have prior experience in SS316L orbital tube welding. Demonstrated ability to maintain purity needed for semiconductor works is crucial. Vendors must demonstrate capability by showcasing prior experience.
10.	Hardware	1. Clamps for tubing support 2. Unistrut support to be used at standard lengths. All line must be tagged/labelled for identification
11.	Testing & validation	1. Validation and testing certificate must be provided
12.	Installation & commissioning	1. The Installation should be carried out by trained technicians. The Installation, testing and documentation procedure followed must be compliant to semiconductor standards.
13.	Safety	1. The installation technician should follow all site safety terms.



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		2. Mandatory PPE: Safety helmet with face shield, electrical insulated gloves, electrical insulate Safety shoes.
14.	Experience	1. The Vendor must submit references from at least 3 previous installations (semiconductor industry only)