

22/03/2022

ADDENDUM 03

Tender no.2021-22/07

Equipment: 2021-22/07/02 – Clean Room Facilities

The Technical Bid has been replaced for Clean Room Facilities. Due to additional requirements in technical specifications.



Principal Director (T)

REVISED Technical Bid

TENDER NO	Tender No.: CIPET_HO / Pur / 2021-22 / 07 / 02	
ITEM DESCRIPTION	Clean Room Facilities	
Sl. No.	PARTICULARS	Quoted By
1	Name of the Bidder	
2	Postal address	
3	Telephone No. with STD code	
4	Alternative Phone No. with STD Code.	
5	Name of Contact person	
6	Mobile No.	
7	e-mail ID	
8	BELOW GIVEN DOCUMENTS TO BE SCANNED AND UPLOADED IN THE WEBSITE www.tenderwizard.com/CIPET WITHIN THE PERIOD OF SUBMISSION.	YES
Certificates:		Copy to be Enclosed
9	i) Certificate of Registration for GST	
	ii) Certificate of Registration for NSIC / MSME / Startup / Others	
	iii) Auditor Certificate confirming the Turnover for the past three years 2017-18, 2018-19, 2019-20 (Separate One page Auditor Certificate confirming the turnover)	
	iv) Authorization certificate from OEM (If not a Manufacturer for the machine / equipment) - (Section - V)	
	v) Bid Form (Section V)	
Commercial Terms for Quoted items (Please Provide Commercial terms and conditions in the below form)		Mention - Agreed & Not Agreed
10	i) Minmim Required Validity of offer is 90 Days from the date of Price Bid Opening	
	ii) Price Shall be firm through out the currency of contract, in the event of placement of purchase order.	
	iii) Terms of Payment:- Please refer Tender / Bid Document Clause nos.4.5, 8.1 and 8.2. Accordingly payment will be released	
	iv) Price Term only in INR (Free Delivery / Safe Door Delivery / F O R)	
	v) Period required for Supply, Installation, Commissioning and Training (in days)	
	vi) Please Indicate the Period of Guaranty / Warranty (Minimum TWO YEARS (2) is Mandatory) (No. of years)	
QUESTIONNAIRE TO BE FILLED BY BIDDER IN AND SENT ALONG WITH OFFER DULY SIGNED		Copy to be Enclosed
11	i) Whether All Documents Relating to tender Viewed	
	ii) BOQ / Packing List (each and every part of the equipment & standard accessories to run the machine) - as per Section - III	
	iii) Make and Model along with specification.	
	iv) Pre-installation requirement if any to run the equipment / machine	
	v) Technical Catalogue / Brouchures / Leaflet clearly mentioning the Model number, name of equipment and technical details	
	vi) Proforma for Deviation Statement (Section - X)	
	vii) Past three years supply details for similar machines (order copy)	
	viii) Performa for performance statement (Section - IX-A) along with the certificate for similar machines from the client/user organisation.	

		ix) Self Certification under Preference to "Make In India" - (Section - XII)		
		X) Integrity Pact - (Section - XIII)		
		XI) Mention the Country of Origin of the Equipement		
		XII) Kindly Mention the Local Content in Percentage (%) as per MII Policy - (Make In India) (Section XI & XII)		
		Make		
		Model		
Sl. No	Item	Unit	Specication	Bidder Specification
1	Application		<ul style="list-style-type: none"> • RCA Process., Piranha Process. • Development process. • Lift off and metal etch process. • HF dip for native oxide removal. • Wet etch. • Glass/PET substrate cleaning. Semiconductor Processing Lab	
2	Description		It is design and built scope. <ul style="list-style-type: none"> • The size of clean room is 600 sq. f and 500 sq. f of it is maintained as (ISO 6) class 1000 and the rest 100 sq. f is class 10,000 (ISO 6). Complete area covered with yellow light and dedicated for semiconductor process.	
3	List of chemicals allowed		Acetone, IPA, NH4OH, HCL, HF, H ₂ O ₂ , H ₂ O, BHF, TMAH, HNA, Resists, developers and strippers.	
4	Substrates allowed		Si, Quartz, GaAs, Ge, Al ₂ O ₂ , SiC and other substrates on request.	
5	Fume hood & Clean Bench		Suitable fume hood for device fabrication. <ul style="list-style-type: none"> • Hood should have constructed from all white stress-relieved, acid resistant, non-corrosive polypropylene or better. Working dimension: 2000mm X1000 mm X900 mm and closing slash <ul style="list-style-type: none"> • Microprocessor based controls: A microprocessor controller monitors face velocity and displays the real-time airflow on the LCD screen in linear feet per minute. • Easy-access utilities panel for operation and maintenance. • Should have sink, electrical outlets, digital airflow alarms, gas, water, air facilities and base cabinetry. • Corrosion resistant interiors and exteriors. • Noise and Sound Levels < 60db • Filter Assembly: Large Separator-Less HEPA Filters, 99.99% Efficient on 0.3 Micron Particle • Air Velocity: Down Flow Velocity: 60 LFPM (0.30 m/s) Inflow Velocity: 105 LFPM (0.53 m/s) • Suitable light for clean room 	
6	Technical specifications		Ø Working area dimensions: 2000mm X1000 mm X900 mm and closing slash. Ø Laminar flow dynamics with FFU and HEPA filers 99.99%. Temperature: 20 +/- 2 &Room Humidity:< 50% Ø General exhaust is available to remove fumes during process.	

	Gas Facilities	Gas Facilities in the clean room bench:		
		Gas Cylinders with Refill & Regulators		
		Gas line should be in stainless steel.		
		Cylinder should be placed outside the building.		
		<ul style="list-style-type: none"> Ultra High Pure, Brand New High Pressure Seamless Steel Cylinder, ISI Marked, Confirming IS 7285 specification, Flat / Concave Bottom fitted with Valve as per IS: 3224-1988 complete with neck ring & cap, painted as specified under Gas Cylinder Rules 2004 		
		<ul style="list-style-type: none"> Supported with following documents: ISI Marking / Quality Certificate, Hydraulic Test Certificate, Approval Certificate from Chief Control of Explosives, Govt. of India 		
		Gas Cylinders with Refill: Argon-01, Oxygen-01 and Nitrogen-01		
		<ul style="list-style-type: none"> Ultra High Pure; Cylinder Capacity: 47 ltrs; Cylinder Type : Carbon Steel; Purity: 99.999% (5.0 Grade); Pressure : 130 – 140 Kg/cm²; Gas Volume : Approx. 7.0 Cu.m per Cylinder Impurities in : O₂ < 2. H₂O < 2, CO+CO₂ < 0.2; PPM :THC < 0.2; Stability : 12 Months. 		
		Gas Regulators: Argon-01, Oxygen-01 and Nitrogen-01		
		Resistance Pressure:		
		<ul style="list-style-type: none"> It is compatible with valve as per IS: 3224-2002 Regulator with Input and Output gauge suitable for Argon, H₂, N₂, O₂, Gas 		
		Specifications:		
		<ul style="list-style-type: none"> Stainless Steel Specially cleaned Body Leaking Rate: <1 x 10⁻⁶ Mbar Seals: Teflon Diaphragm: Stainless Steel SS Inlet Pressure: 0 – 140 Kg/Cm² Outlet Pressure: 0 – 16 Kg/Cm² 		
		Accessories to quote along with the equipment cost:	Cylinder opener : 02 Nos; Gas tube (Polyurethane): 8 mm dia. -50 mtr, 10 mm dia. -50 mtr, Pneumatic Connectors: 8mm to 6 mm – 5 Nos; 10mm to 8 mm - 5 Nos; 8mm to 8 mm -5 Nos; 10mm to 10mm - 5 Nos.	
			It is design and built scope: Chair:05 Table:03 Cross over bench:01 Shoe rack:01 Shoe dispenser:01 Garment storage:02 Mirror:01 Static pass box:01 Dynamic pass box:01	
Power requirement in side clean room	Minimum Power: 35 kW			
Equipment's Planning to keep inside clean room	Mask aligner, Optical Microscope, Semiconductor Parameter Analyser with Probe Station, Hot Air Oven, Hot Plate, Work Bench etc.,			
Building Information	<ul style="list-style-type: none"> Available Space: 2000 sq. f. Floor height: 13 feet (including 2 feet of beam) Wall thickness: 11 inch Flooring at present site: Tiles Ground floor Draft Site Layout Attached. 			

8	TERMS & CONDITIONS	1. Tenders should specify and quote all mandatory and other accessories required for installation, commissioning and running the machine.	
		2. The vendor should supply PCs with requisite specifications and data transfer accessories compatible with the equipment.	
		3. All necessary CRM along with the calibration certificates wherever required traceable to international standard should be provided.	
9	AMC	AMC charges for additional 3 years should be quoted additionally.	
10	PRE-REQUISITES	1. Pre-installation requirements indicating details of power requirement, utility air, water, ventilation, safety device, if any, along with the foundation requirement needed for installation & commissioning should be provided with tender document.	
		2. The vendor should have technical support in the area of application and service available within the country.	
		3. The power requirement of UPS for providing a back-up of minimum 01 hour should be specified.	
11	SERVICE	1. Appropriate tool box/kit for routine maintenance should be provided with the equipment	
		2. All documents (i.e. operating & service manuals, drawings etc.) and original softwares relevant to the instrument and its accessories must be supplied.	
		3. In case of any up gradation of software within the period of warranty then the same should be provided free of cost by the supplier/manufacturer.	
		4. Power and receptacle/socket as per Indian Standards should be provided.	
		5. The vendor shall have local service and application office and infrastructure to attend by visit within 48 hours of need.	
12	VENDOR TRACK RECORD	6. The vendor should furnish details of customers in India.	
13	TRAINING	Onsite training for system operation and maintenance as well as application support should be provided by the vendor at its own cost.	