

Bid invitation

Information

Description: CLEAN ROOM FACILITY FOR TIG WELDING

Bid invitation number: 6300040411

Version: 3

Bid invitation rules

Bid invitation currency: INR

Timezone: UTC+53

Submission period: 30.03.2026 15:00:00

Tech Opening date: 30.03.2026 15:30:00

Created On: 09.03.2026 05:49:59

Bid invitation text:

Corrigendum-2 issued for change in Technical specifications of CLEAN ROOM FACILITY FOR TIG WELDING. Vendors to refer TECHNICAL SPECIFICATION (REVISION-1) at ANNEXURE-A and fill the Technical Compliance accordingly. All other Terms & conditions are same
Tender submission due date is 30.03.2026 at 15:00 Hours.
Vendor to note the changes and submit the Technical and Price Bid accordingly.

Tender submission due date extended from 23.03.2026 at 15:00 Hours to 30.03.2026 at 15:00 Hours.

Terms & Conditions: Quotation in E mode in Two bid system is invited through BEML SRM system.
Scope of work: Design, Fabrication, Supply & Prove out of CLEAN ROOM SYSTEM at BEML Limited, Aerospace Division, Mysuru Complex, Belavadi Post, Mysuru
Class-III digital signature is mandatory requirement for submission of bids in BEML SRM system. Manual quotations through Post/ Email will not be considered and will be summarily rejected.
Please refer tender documents and fill & attach all the technical documents along with Technical bid. All supporting documents/ attachments / annexures to be enclosed.
You are requested to quote the price on F.O.R BEML, Mysore.
Purchase order will be placed on lowest (L1) bidder considering total value for the Technically Qualified bidders only.

For any further clarification on technical details, please contact: Vishwanatha.k@bemltd.in and Contact No. 0821-2400508. For any clarification or assistance in online Bid submission in SRM, please contact our SRM team Email ID, anithak@bemltd.in and Tel: 080 22963269

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Attachments:

Attachments:

TENDER DOCUMENT-FINAL

CORRIGENDUM-1

Digital Signature

TECH SPEC(REV-1) & CORRIGENDUM-2

Bid invitation details

Item	Product	Description	Vendor product number	Delivery date/ performance period	Quantity
1	ASM0101260219	CLEAN ROOM FACILITY FOR TIG WELDING		31.12.2026 00:00:00	1 NO

Material Specification Text:

CLEAN ROOM FACILITY FOR TIG WELDING:SUPPLY AS PER TECHNICAL SPECIFICATIONS(ANNEXURE-A).

Basic Price	INR	_____
CGST - Central GST	%	_____
SGST - State GST	%	_____
IGST -Integrated GST	%	_____

Corrigendum-2 : Change in Technical Specifications :

Sl	Terms	Revised Terms	Tender submission due date
1	Technical Specifications as per Annexure-A	Technical Specifications as per Annexure-A (Rev-1)	30.03.2026 at 15:00 Hours

Corrigendum-2 issued for change in Technical specifications of CLEAN ROOM FACILITY FOR TIG WELDING. Vendors to refer TECHNICAL SPECIFICATION (REVISION-1) at ANNEXURE-A and fill the Technical Compliance accordingly. All other Terms & conditions are same

Tender submission due date is 30.03.2026 at 15:00 Hours.

Vendor to note the changes and submit the Technical and Price Bid accordingly.

AGM(ASMD)

CORRIGENDUM TO : TECHNICAL SPECIFICATION OF CLEAN ROOM FACILITY FOR WELDING (ANNEXURE-A)		
Sl. No.	Description of requirement	
	FOR	READ AS
A 10	Calibrated Particle-counting instrument	To be provided by supplier as per ISO-14644. Supplier shall provide the make, model and technical specification of the Discrete-Particle counter (DPC)&a light-scattering device. Calibration certificate shall be provided along with instrument.
		To be provided by supplier as per ISO-14644. Supplier shall provide the Handheld particle counter, Qty: 01 no. of following make and model: Met One HHPC 3+ / Lighthouse HH3016 / Lighthouse HH5016. Calibration certificate shall be provided along with instrument.
B	A detail list of the works is as follows:	
1	PPGI(Pre-painted GI) Sheet thickness shall be of 0.8mm.	PCGI (Powder coated GI) Sheet thickness shall be of 0.8mm.
2	PPGI(Pre-painted GI) Sheet thickness shall be of 0.8mm.	PCGI (Powder coated GI) Sheet thickness shall be of 0.8mm.
16	Sheet Metal Ducting in 22G complete with TDF Flanges, Gaskets, Nut bolts, Stiffeners, Supports with RTV Sealant of higher gauge as per requirement.	Sheet Metal Ducting in GI of 22G complete with Flanges, Gaskets, Nut bolts, Stiffeners, Supports with RTV Sealant of higher gauge as per requirement.
29	The Door D3 for gowning room should be air tight of size 900mm x 2100mm	The Door D2 for gowning room should be air tight of size 900mm x 2100mm
40	<u>New addition:</u> Platform for AHU, Outdoor Condensing Units.	Platform &Canopy for AHU and outdoor units is firm's scope.
41	<u>New addition:</u> Earthing	Suitable earthing provision with earthing pit required for clean room is firm's scope.

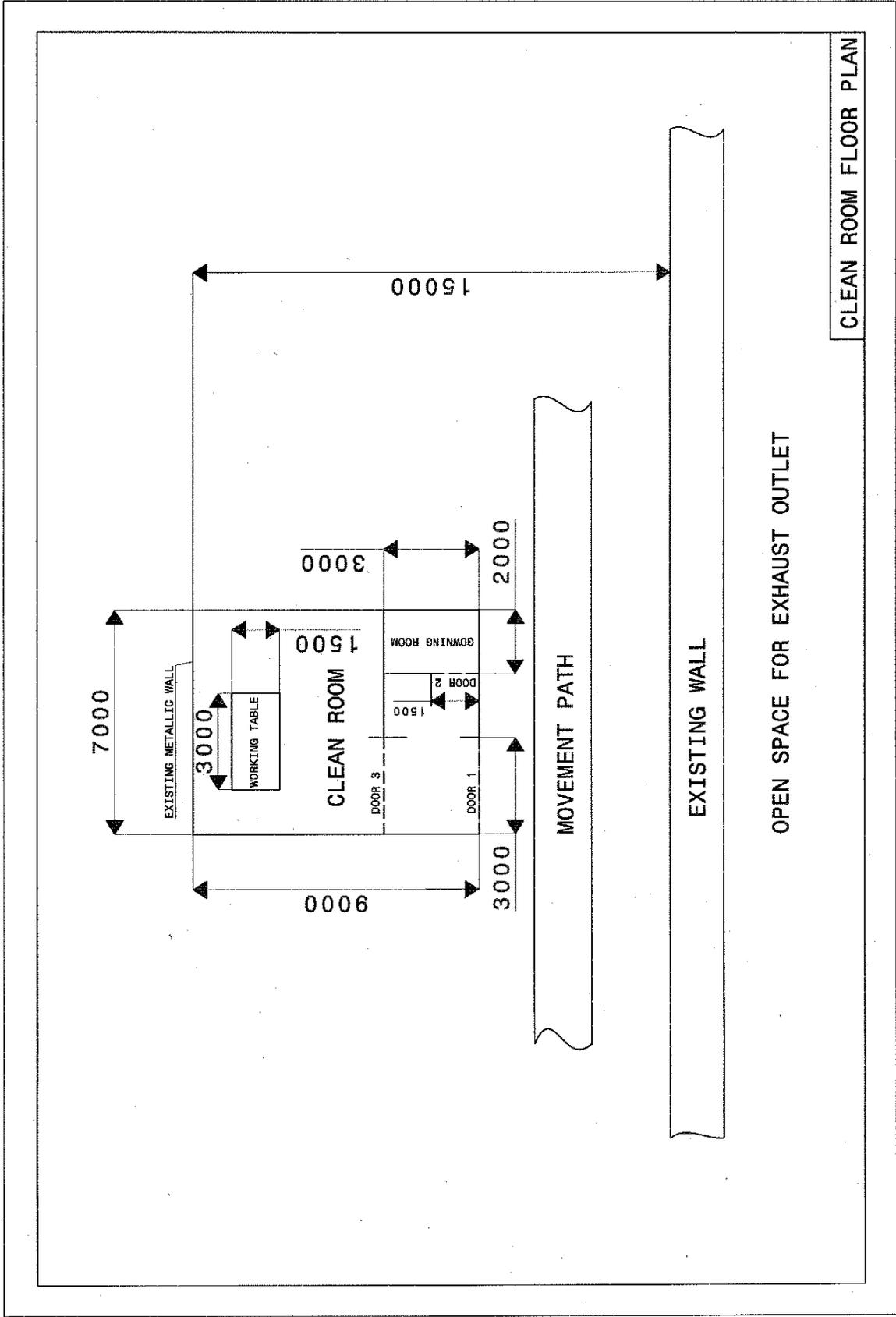
**ANNEXURE-A: TECHNICAL SPECIFICATION OF THE CLEAN ROOM FACILITY FOR WELDING
(REVISION-01)**

Scope	Design, Fabrication, Installation & Prove out of Class 8 Clean Room as per ISO 14644		
Purpose	To carry out TIG welding of Titanium alloy structures		
Pre bid meeting	<ul style="list-style-type: none"> Interested firms shall attend the pre-bid meeting as per scheduled date mentioned in the tender enquiry. For any queries / clarifications firms may send mail in advance to vishwanatha.k@bemltd.in to arrange for security pass to attend pre-bid meeting. Firms may visit to the site to understand the availability of space & building to assess the extent of structural work involved in Clean room installation. 		
Quantity	01 No.		
Delivery:	06 Months from the date of PO.		
Final Acceptance	Inspection & clearance as per technical specifications & performance at ASMD, BEML Limited, Mysore.		
Sl. No.	Technical Specification	Details	Compliance (Yes/No)
A	Supply, installation and prove out of clean room (Qty. 01 No.). Reference standard ISO-14644 latest edition (referred to all parts of the standard)		
1	Classification of Clean Room	Class 8 of ISO 14644	
2	Total Size of the Room (Including Gowning room)	(9 m x7 m x3.5 m) refer clean room floor plan.	
3	Desired Operating Temperature	22°C± 2°C	
4	Desired Relative Humidity	45% +10%	
5	Air Circulation System	Good continuous air circulation required with effective exhaust to vent out welding fumes. Supplier shall provide exclusive fume extractor of type Single Arm with 03meter, pillar/ wall mounted arm and 10 Mtr ducting with 2 stage filtrations (pre filter and HEPA Filter). Bidder shall mention the make and model of Fume extractor and firm shall provide technical specification.	
6	Filtration Level	As per Class 8 of ISO-14644	
7	Floor to False Ceiling Height	3.5 m	
8	Gowning Room	As per Class 8 of ISO-14644	
9	Lighting	500 to 600 lux	
			Remarks

10	Calibrated Particle-counting instrument	To be provided by supplier as per ISO-14644. Supplier shall provide the Handheld particle counter, Qty: 01 no. of following make and model: Met One HHPC 3+ / Lighthouse HH3016 / Lighthouse HH5016. Calibration certificate shall be provided along with instrument.	
11	Test Report as per ISO-14644	Clean room supplier shall provide Test report. The results from testing the clean room shall be recorded and submitted as a comprehensive report, along with a statement of compliance with the specified designation of airborne particulate cleanliness classification.	
12	Humidity & Temperature Meter: Qty. 01 No.	Make & Model: HTC and HT-306	
B	A detail list of the works is as follows:		
1	Wall panel: Double skin sandwich type 75mm thick wall panel PUF infill density 40 kg/m ³ with profile to increase mechanical strength and also it should accommodate cut outs of return air filter boxes and also it should be suitable for 3.5 Mtr height walls of clean room, color RAL9002. PCGI (Powder coated GI) Sheet thickness shall be of 0.8mm.		
2	Ceiling Panel: Double skin sandwich type 50mm thick ceiling panel PUF infill 40 kg/m ³ with profile to increase mechanical strength and also it should accommodate cut outs of supply air filter boxes and Light fixtures etc. color RAL9002. PCGI (Powder coated GI) Sheet thickness shall be of 0.8mm.		
3	Flooring: ESD vinyl flooring with copper earthing and suitable coving fillet shall be provided.		
4	Aluminium R70 coving for clean room environments to ensure seamless, hygienic transitions between walls, ceilings as per the requirement.		
5	Wall panel accessories to complete the installation of total wall panels as per the requirement.		
6	Ceiling panel accessories to complete the installation total ceiling panels as per the requirement.		
7	Air Handling Unit (Classified): - Pre filters, cooling coil, blower assy. with drain pan, fine filter, RH control heating system, (HEPA filter 0.3 micron down to 99.997% efficiency shall be placed in terminal filter boxes in ceiling panel), recirculation type 10-15% fresh air, 85 to 90% recirculation		
8	Non-CFC gas (like R-32/R-134a/R410) cooled condensing unit with suitable accessories to meet the Class 8 clean room requirement as per ISO-14644.		
9	Refrigeration accessories: - Refrigerant Copper Piping with 19mm thick Nitrile Rubber insulation on suction line and non-insulated liquid line, trays for copper piping etc. & all other accessories like expansion valve, hand shut off valve, dryer, sight glass etc.		
10	Terminal filter boxes with Damper operating mechanism and SS grill suitable for required quantity of air.		

11	HEPA Filter of H14 grade, size and Capacity 610 x 610mm x150mm and 400 to500 cfm with required quantities to be installed.	
12	Return air terminal filter boxes with damper operating mechanisms and SS grill for required quantity of air.	
13	Return air terminal raiser with suitable Pre-Filter with required quantities to be installed.	
14	Return Air Control Fire damper to be provided.	
15	Air curtain 3000mm width with air velocity 10m/s to be provided at entrance Door-1.	
16	Sheet Metal Ducting in GI of 22G complete with Flanges, Gaskets, Nut bolts, Stiffeners, Supports with RTV Sealant of higher gauge as per requirement.	
17	Thermal Insulation-XLPE 18 / 19mm thick with alupet for supply air ducts	
18	Thermal Insulation- XLPE 12 / 13mm thick with alupet for return air ducts	
19	Covering of flange joints with 3mm XLPE with alupet	
20	Dynamic Garment Cabinet in SS304 (900mm x 600mm x 2100mm) with HEPA filter H14 grade, blower assy, pre filter of 10-micron, UV light, fluorescent light, Hanger, swing doors to be provided.	
21	Electrical Panel for AHU, Condensing Unit, Heater, MCCB, contactor, relay, MCB, timer, temperature and humidity controller etc to be provided.	
22	Electrical wiring with all accessories from control panel to air handling unit to condensing unit.	
23	Display and control panel for HVAC system. (Parameters to be displayed are temperature, RH, Differential pressure, voltage, current etc.)	
24	Detail HVAC System calculation & Design to be submitted after receipt of PO	
25	LED Light fixtures to attain 500 to 600 lux at 1.5m above the floor level.	
26	Electrical cabling by armoured copper conductor with all accessories for complete wiring for clean room.	
27	PVC Piping for draining the water from air handling unit.	
28	Epoxy Flooring and incoming power supply is BEML scope.	
29	Clean room compatible scientific air tight double leaf doors (D1 & D3)(3000mm width x 3000mm height) with vision glass (500mm x 500mm), door closer, hinges, push plate, drop seal, handle etc. The Door D2 for gowning room should be air tight of size 900mm x 2100mm	
30	MS structural support for Ducting lines and compressors, vertical wall panel wherever require this includes fasteners, plates etc. as per required size. The existing building roof height is 10 m. Hence there is no provision to take support for clean room roof & other systems. Hence MS structural support for the complete room & duct need to be planned. Full layout drawings to be submitted after receipt of PO.	
31	Validation & Documentation. Air quantities measurements, temperature, humidity, positive pressure, Particle count and Documentation like Installation Qualification, Operational Qualification and design, drawing etc. shall be provided after PO and	

	during commissioning.		
32	Any other items required for installation, prove out & proper functioning of the clean room facility is under the scope of supplier.		
33	Experience: Firm shall have past experience in manufacturing, supply & installation of clean room facility. Note: Essentially minimum 01 (one) supply order copy and project completion certificate from customer regards to manufacturing, supply & installation of clean room facility for past 10 years shall be attached.		
34	Warranty: This comprehensive warranty shall remain valid for 24 months from the date of installation, commissioning, prove out & acceptance.		
35	Training: The supplier shall train BEMIL employees for: <ul style="list-style-type: none"> ➤ Operation of clean room ➤ Electrical & Mechanical maintenance for troubleshooting, maintenance & repair. ➤ Procedure to enter clean room. 		
36	Manuals: Firm shall provide hard copies of manuals (containing standard operating procedure, preventive maintenance etc) and circuit diagrams, Qty: 02 no's at the time of handing over of the system. Soft copy of above mentioned manuals to be supplied in CD/DVD/Pen drive.		
37	Service: Firm shall indicate the name & address of the agency for the after-sales service facilities available for the system in India.		
38	Spare / Consumables required during warranty period for complete system to be supplied by the firm along with the clean room system.		
39	List of critical spares for operation & maintenance post warranty period to be attached.		
40	Platform & Canopy for AHU and outdoor units is firm's scope.		
41	Earthing: Suitable earthing provision with earthing pit required for clean room is firm's scope.		



CLEAN ROOM FLOOR PLAN

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