



**TATA INSTITUTE OF FUNDAMENTAL RESEARCH**  
(Autonomous Institution of the Department of Atomic Energy, Government of India)  
Survey No.36/P, Gopanpally Village, Serilingampally Mandal,  
Ranga Reddy District, Hyderabad-500046, Telangana

Date: 11.06.2024

**Minutes of the pre-bid meeting**

**TENDER REFERENCE NO.: TIFR/PD/CF24-23/240147**

**The pre-bid meeting was held on 07.06.2024 at 11:30 Hours for Supply, installation, Testing and Commissioning of Cleanroom, Petawatt Building at Plot B TIFRH.**

**Pre-Bid Meeting Queries**

S.No	Tender Section & Clause No.	As Per Tender Description	Pre-Bid meeting Queries	Reply to Queries by TIFR
1	Section-I & Clause No. 1 (Page No. 66)	Supply, Installation, Testing and commissioning of 150 mm thk. modular powder coated clean room wall panels made of 0.8 mm thk for outer skin and 0.8 mm thk for inner skin electro zinc steel sheet on both sides with PUF insulation of density 42 kg / cub. mt., supports, cut outs, etc. Powder coating thickness shall be 60 to 80 micron. Aluminium interconnecting profiles, floor track for the level adjustment, etc. shall be provided. Coving shall be painted as that of wall / ceiling panels. Panels shall have all the provisions required for services entry, return air grilles, switch boards, isolators, etc. The areas of doors / view panel will not be included in the measurement. All cutouts shall be properly finished with end cover with concealed screws, etc. All cutouts shall be done at factory as per the approved shop drawings. Shop drawings shall be submitted for review and approval. 32 mm dia GI conduits and 2/3 module GI metal box shall be provided for electrical wiring one in each panel as per the drawing. Since the panel thickness is 150 mm, necessary stiffeners shall be provided to ensure the rigidity and strength is maintained without sagging and bending. Return air raisers shall be provided in the panel of size 600 x 125 mm and opening shall be provided for air suction(Pre-filter) size 620 x 770 mm or as required made of 24 G shall	Kindly confirm the given quantity is Separate Sqm of Solid Panel and Riser Panel. Or Kindly confirm the Nos of the riser panel with height? We will calculate the Sqm.	Every 150mm wall panel will have a built in Riser panel. So the measurement is inclusive of riser panel and other accessories as mentioned.If riser to be avoided while execution, qty for PUF panel will be considered but rate will not change.
2			Shall we give Riser Panel of Standard With of 1200mm inbuilt of 600 x 125mm riser duct as per your requirements. Kindly Confirm?	YES
3			Extension height of Riser Duct above false Ceiling? Kindly confirm?	YES, required approximately 150 mm height above false ceiling



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		be provided in the clean room panels wherever required and as per the drawing in the above cleanroom wall panels of following width. 25 mm thick insulation shall be provided at the back of the return air risers. Return risers shall be provided with one set of MS angle frames with 25 x 25 x 3 mm thick MS angle for connecting to ducting. MS angle frames shall be painted with one coat of primer and two coats of finish paint. Tentative drawing is enclosed and however needs to be provided as per actual requirement. All cutouts shall be done at the factory as per the approved shop drawings.		
4		Supply, Installation, Testing and commissioning of 100 mm thk. modular powder coated clean room wall panels made of 0.8 mm thk for outer skin and 0.8 mm thk for inner skin electro zinc steel sheet on both sides with PUF insulation of density 42 kg / cub. mt., supports, cut outs, etc. Powder coating thickness shall be 60 to 80 micron. Aluminium interconnecting profiles, floor track for the level adjustment, etc. shall be provided. Coving shall be painted as that of wall / ceiling panels. Panels shall have all the provisions required for services entry, return air grilles, switch boards, isolators, etc. The areas of doors and view panels will not be included in the measurement. All cutouts shall be properly finished with end cover with concealed screws, etc. All cutouts shall be done at factory as per the approved shop drawings. Shop drawings shall be submitted for review and approval. 32 mm dia GI conduits and 2/3 module GI metal box shall be provided for electrical wiring one in each panel as per the drawing. Return air raisers shall be provided in the panel of size 750 x 75 mm and opening shall be provided for air suction(Pre-filter) size 470 x 770 mm or as required made of 24 G shall be provided in the clean room panels wherever required and as per the drawing in the above	Kindly confirm the given quantity is Separate Sqm of Solid Panel and Riser Panel. Or Kindly confirm the Nos of the riser panel with height? We will calculate the Sqm.	<b>Every 100mm wall panel will have a built in Riser panel. So the measurement is inclusive of riser panel and other accessories as mentioned.If riser to be avoided while execution, qty for PUF panel will be considered but rate will not change.</b>
5	Section-I & Clause No. 4 (Page No. 67 & 68)		Shall we give Riser Panel of Standard With of 1200mm inbuilt of 750 x 75mm riser duct as per your requirements. Kindly Confirm?	<b>YES</b>
6			Extension height of Riser Duct above false Ceiling? Kindly confirm?	<b>YES, required approximately 150 mm height above false ceiling</b>



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		cleanroom wall panels of following width. 25 mm thick insulation shall be provided at the back of the return air risers. Return risers shall be provided with one set of MS angle frames with 25 x 25 x 3 mm thick MS angle for connecting to ducting. MS angle frames shall be painted with one coat of primer and two coats of finish paint. Tentative drawing is enclosed and however needs to be provided as per actual requirement. All cutouts shall be done at the factory as per the approved shop drawings.		
7		Supply, Installation, Testing and commissioning of 80 mm thk. modular powder coated clean room wall panels made of 0.8 mm thk for outer skin and 0.8 mm thk for inner skin electro zinc steel sheet on both sides with PUF insulation of density 42 kg / cub. mt., supports, cut outs, etc. Powder coating thickness shall be 60 to 80 micron. Aluminium interconnecting profiles, floor track for the level adjustment, etc. shall be provided. Coving shall be painted as that of wall / ceiling panels. Panels shall have all the provisions required for services entry, return air grilles, switch boards, isolators, etc. The areas of doors and view panels will not be included in the measurement. All cutouts shall be properly finished with end cover with concealed screws, etc. All cutouts shall be done at the factory as per the approved shop drawings. Shop drawings shall be submitted for review and approval. 32 mm dia GI conduits and 2/3 module GI metal box shall be provided for electrical wiring one in each panel as per the drawing. Return air raisers shall be provided in the panel of size 600 x 50 mm and opening shall be provided for air suction(Pre-filter) size 620 x 370 mm or as required made of 24 G shall be provided in the clean room panels wherever required and as per the drawing in the above cleanroom wall panels of following width. 25 mm thick insulation shall be provided at the back of the	Kindly confirm the given quantity is Separate Sqm of Solid Panel and Riser Panel. Or Kindly confirm the Nos of the riser panel with height? We will calculate the Sqm.	<b>Every 80mm wall panel will have a built in Riser panel. So the measurement is inclusive of riser panel and other accessories as mentioned.If riser to be avoided while execution, qty for PUF panel will be considered but rate will not change.</b>
8	Section-I & Clause No. 5 (Page No. 68 & 69)		Shall we give Riser Panel of Standard With of 1200mm inbuilt of 600 x 50mm riser duct as per your requirements. Kindly confirm?	<b>YES</b>
9			Extension height of Riser Duct above false Ceiling? Kindly confirm?	<b>YES, required approximately 150 mm height above false ceiling</b>



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		return air risers. Return risers shall be provided with one set of MS angle frames with 25 x 25 x 3 mm thick MS angle for connecting to ducting. MS angle frames shall be painted with one coat of primer and two coats of finish paint. Tentative drawing is enclosed and however needs to be provided as per actual requirement. All cutouts shall be done at factory as per the approved shop drawings.		
10	Section-I & Clause No. 8 (Page No. 70)	Supply and Installation of powder coated clean room 50 mm thick single leaf flushed doors made of 0.8 mm thick for outer skin and 0.8 mm thick for inner skin electro zinc steel sheet on both sides with PUF insulation of density 42 kg / cub. mt., with all fittings, view panel, door closure, etc. Size of the door shall be considered tentatively as indicated in the drawing. Powder coating thickness shall be 60 to 80 microns. Doors shall have door frame, double glazing see thru glass / view panel, hardware like door closure, SS handles, SS ball bearing butt hinges and automatic door bottom seal, etc. Each door shutter shall be with lock seam joints at style edges with required no. of stainless steel butt hinges SS304 of size 100mm*75mm-(3nos) with HSN screws. Mortice Lock(make: Door set)-1no., auto drop bottom seal 1 set,SS Sick plate-1set,Dtype 19mm dia *250mm steel handel for pull & push -2no.,Door closer (Dorma/ equivalent make) 1no. All the fittings shall be compatible for a clean room. Doors shall have an automatic bottom flap to seal the gap below the door when the door is closed. Utmost care shall be taken in order to arrest the air leaks from the door and an SS strip of 5 mm thick shall be fixed on the floor for the door width to arrest the air leakages from the door. View panel size in each leaf of the door shall be 600 x 300 mm. Complete door hardware and accessories shall be of Dorma make. Size : 1000 x 2100 mm - 4 no.	In tender specifications 4 no quantity is given. But in Price BOQ it is in Sqm. Kindly confirm we have to quote in SQM or quantity based?	It is in SQM (Door sizes and qty are only indicative)

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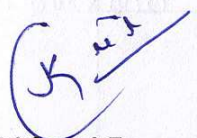
11	Section-I & Clause No. 9 (Page No. 70 & 71)	Supply and Installation of powder coated clean room 50 mm thick double leaf flushed doors made of 0.8 mm thick for outer skin and 0.8 mm thk for inner skin electro zinc steel sheet on both sides with PUF insulation of density 42 kg / cub. mt., with all fittings, view panel, door closure, etc. Size of the door shall be considered tentatively as indicated in the drawing. Powder coating thickness shall be 60 to 80 microns. Doors shall have door frame, double glazing see thru glass / view panel, hardware like door closure, SS handles, SS ball bearing butt hinges and automatic door bottom seal, etc. Each door shutter shall be with lock seam joints at style edges with required no. of stainless steel butt hinges SS304 of size 100mm*75mm-(3nos) with HSN screws. Mortice Lock(make: Door set)-1no., auto drop bottom seal 1 set, SS Sick plate-1set, Dtype 19mm dia *250mm steel handel for pull & push -2no., Door closer (Dorma/ equivalent make) 1no. All the fittings shall be compatible for clean room. Doors shall have automatic bottom flap to seal the gap below the door when the door is closed. Utmost care shall be taken in order to arrest the air leaks from the door and an SS strip of 5 mm thick shall be fixed on the floor for the door width to arrest the air leakges from the door. View panel size in each leaf of the door shall be 600 x 300 mm. Complete door hardware and accessories shall be of Dorma make. Size : 2000 x 2100 mm - 1 no.	In tender specifications 1 no quantity is given. But in Price BOQ it is in Sqm. Kindly confirm we have to quote in SQM or quantity based?	It is in SQM (Door sizes and qty are only indicative)
12	Section-I & Clause No. 11 (Page No. 71)	Supply, Installation, Testing and Commissioning of MS / GI epoxy painted bottom loading terminal boxes with damper for mounting mini pleat HEPA filters with all accessories suitable for 710 x 710 x 150 mm filters. Damper shall be operated from below through bevel gear arrangement. Shall have the arrangement for DOP test, etc. Filter modules shall be suitable for knife edge filters and necessary gel seal shall be provided	We considered Supply, installation And Commissioning of Filters. Since the Ducting quantity is not given in BOQ we are excluding the ducting connection scope in UHP. Kindly confirm?	Ducting Not considered in this tender

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13	✓ Section-I & Clause No. 20 (Page No. 73)	Supply, installation, Testing and commissioning of magnehelic gauge with SS box with nozzles and tubes for measuring the room differential pressures. Shall be installed in the required locations, with necessary SS pressure sensing probes	Based on specification we are considering the Manual Type magnehelic gauge. Kindly confirm?	<b>Analog Type</b>
14	General	Supply of 150/100/50mm Panel 0.8 mm thk for outer skin and 0.8 mm thk for inner skin <b>electro zinc steel sheet on both sides</b> with PUF insulation of density 42 kg / cub. mt. supports, cut outs, etc. Powder coating thickness shall be 60 to 80 micron Aluminum interconnecting profiles	Supply of 150/100/50mm Panel 0.8 mm thk for outer skin and 0.8 mm thk for inner skin with Galvanized Iron Sheet. Pure polyester powder coating of 70-90 microns. Infill as PUF of density 40±2 Kg /M3. Shall we consider the above mentioned specification for all Panel. Kindly Confirm?	<b>As per Tender Specification only</b>
15	General	Tender Drawings are not clearly visible for Height and Duct Routings.	Kindly Share Autocad Drawing for Further details Evaluate the Requirement and understand the scope.	<b>We will share the Autocad Drawing</b>

  
**Krishna A.E.**  
**Engineer (E) Electrical**