

**SIDBI, BKC, Mumbai**

**Name Of Work: HVAC Works including supply, installation, testing and commissioning etc. in SIDBI Office at Swavalamban Bhavan, C-11, G Block, Bandra Kurla Complex, Bandra East, Mumbai**

**Corridendum-01**

Sr. No.	Tender Reference Details	Existing Provision	Revised Provision	Remarks
1.	<b>Commercial BID Volume II / Page 2</b>	–	Brand/Make Offered:_____	Added
1	<b>Commercial BID Volume II / Page 2 [ Part "A"]</b>	Schedule of Equipment and Price	Supply of Equipments	Updated
	<b>Commercial BID Volume II / Page 4 [ PART "B"]</b>	Supply, Installation & Commissioning - Low Side Work	Installation Testing and Commissioning	Updated
2	<b>Commercial BID Volume II / Page 2 Item No. 1.1</b>	Supply of Outdoor Units	Supply of Outdoor Units with multiple ODU connection Kit if necessary	Updated
	<b>Commercial BID Volume II / Page 4 Item No. 3-a</b>	Supply, Installation, Testing and Commissioning of hard/soft copper refrigerant piping for VRV SYSTEM, of suitable sizes complete with fittings between indoor units and remote location condenser /ODU units. Each of the circuits must have Suction lines insulated with 19 mm thick Tubular Nitrile Rubber Insulation and Liquid Line with 13mm.	Supply, Installation, Testing and Commissioning of hard/soft copper refrigerant piping for VRV SYSTEM, of suitable sizes complete with fittings between indoor units and remote location condenser /ODU units. Each of the circuits must have Suction lines insulated with 19 mm thick Tubular Nitrile Rubber Insulation and Liquid Line with 13mm. <b>also for outside exposed piping insulation must have UV treatment( coating) protection</b>	Updated
	<b>Commercial BID Volume II / Page7 Item No. 11-i</b>	MS Structural for Ancillary supports and ODU Frame Base Plate- using MS angle and chequered plate.	<b>MS Structural Framework with rust resistant paints (black color)</b> for Ancillary supports and ODU Frame Base Plate- using MS angle and chequered plate.	In case of additional MS work required during project execution this item will be used.
3	<b>Commercial BID Volume II / Page 8 Item 14-a</b>	MS Stand for VRF ODU Units with Vibration Isolator set up for Outdoor	<b>SITC MS Stand with rust resistant paints (i.e. two coats of black color enamel paint on two coats red oxide)</b>	This item is for ODU Stands.

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		Units of the Following Systems	for VRF ODU Units with Vibration Isolator set up for Outdoor Units of the Following Systems	
4	Technical BID Volume I / Page 6, CL-2/ Page 7, CL-3-1/ Page 11, CL-4-2/ Page 45, CL-9,10,11	Daikin/Carrier-Media/Hitachi/O-General/Mitsubishi/Bluestar/Voltas	Daikin / Carrier / Midea / Hitachi / O-General / Mitsubishi / Bluestar / Voltas / Toshiba / Samsung	Updated.
5	Technical BID Volume I / Clause 6.a Page 6	Total Average annual financial turnover combined for the last three years not less than Rs.500 lakh,	Total annual financial turnover combined for the last three years not less than <b>Rs.765 lakh</b>	Updated.
	Technical BID Volume I / Clause 10.IV Page 46	Contractor to give offer inclusive of AMC cost after initial warranty period of 1 years. The warranty & AMC will be comprehensive and all cost of repairs / replacement of parts, accessories, etc. will be borne by the successful tenderer. The AMC payments will be released six monthlies after successful completion of the period. Comprehensive C\AMC includes a. Servicing and maintenance of supplied ACs, b. Repairing and replacement of any electrical parts such as fan, switches, MCBs. Faulty Cables, pipeline leakage	Contractor to give offer inclusive of <b>CAMC</b> cost after initial warranty period of 1 years. The warranty & AMC will be comprehensive and all cost of repairs / replacement of parts, accessories, etc. will be borne by the successful tenderer. The <b>CAMC</b> payments will be released six monthlies after successful completion of the period. Comprehensive AMC includes d. Servicing and maintenance of supplied ACs, e. Repairing and replacement of any electrical parts such as fan, switches, MCBs. Faulty Cables, pipeline leakage attend, f. Refilling of oil and gas and consumables etc. (Note: Current estimated cost is not included <b>CAMC</b> Cost).	Updated

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		attend, c. Refilling of oil and gas and consumables etc. (Note: Current estimated cost is not included AMC Cost).		
	<b>Commercial BID Volume II / Page 9</b> Item 16	–	Provide following portable AC arrangement on Rent 4 Nos. 4 Ton Portable AC Per Floor, 6 Nos Table Mounted Portable 0.5 Ton AC, Portable 6 Nos Pedestal Fans. (Contractor to Provide Rent Amount per Month)	Added
	<b>Commercial BID Volume II / Page 6</b> Item 10-i	MS Structural Framework for Ancillary supports and ODU Frame Base Plate using MS angle and chequered plate	MS Structural Framework with rust resistant paints (black color) for Ancillary supports and ODU Frame Base Plate- using MS angle and chequered plate. (excluding ODU stand)	Updated
	<b>Commercial BID Volume II / Page 8</b> Item 14-a	MS Stand for VRF ODU Units with Vibration Isolator set up for Outdoor Units of the Following Systems	SITC MS Stand with rust resistant paints (i.e. two coats of black color enamel paint on two coats red oxide) for VRF ODU Units with Vibration Isolator set up for Outdoor Units of the Following Systems	Updated
9	<b>Commercial BID Volume II / Page 10</b> Item 1	AMC cost after initial warranty/DLP of 1 year. The warranty & AMC will be comprehensive and all cost of repairs / replacement of parts, accessories, etc. will be borne by the successful tenderer. The AMC payments will be released six	CAMC cost after initial warranty/DLP of 1 year. The warranty & AMC will be comprehensive and all cost of repairs / replacement of parts, accessories, etc. will be borne by the successful tenderer. The CAMC payments will be released six monthly after successful completion of the period. Comprehensive AMC includes	updated

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		<p>monthlies after successful completion of the period. Comprehensive AMC includes</p> <p>A) Servicing and maintenance of supplied ACs,</p> <p>B) Repairing and replacement of any electrical parts such as fan, switches, MCBs. Faulty Cables, pipeline leakage attend,</p> <p>C)Refilling of oil and gas and consumables etc.</p>	<p>A) Servicing and maintenance of supplied ACs,</p> <p>B) Repairing and replacement of any electrical parts such as fan, switches, MCBs. Faulty Cables, pipeline leakage attend,</p> <p>C)Refilling of oil and gas and consumables etc.</p> <p>D) <b>Periodical (Monthly/Quarterly, Yearly) servicing etc.</b></p> <p><b>The above list is only indicative and agency has to carry out complete preventive and Corrective maintenance to keep the system in the good working condition.</b></p>	
	<p><b>Commercial BID Volume II / Page 6, Cl-7</b></p>	<p>Supply, fabrication, Installation, Testing and of Smart Pre-Insulated PIR Ducting with Panel having Reinforced Chequered Aluminium foil FSK on both sides and close cell not less than 95% Rigid cellular foam insulation of 20MM thickness. Material to be class O as per BS 476 Part 6 &amp;Part 7 with density of 48kg/m<sup>3</sup>, thermal conductivity 0.019W/mK. Water Absorption not more than 0.03% as per EN13403 standard. Duct should be able</p>	<p>Supply, fabrication, Installation, Testing and <b>Air Balancing</b> of Smart Pre-Insulated PIR Ducting with Panel having Reinforced Chequered Aluminium foil FSK on both sides and close cell not less than 95% Rigid cellular foam insulation of 20MM thickness. Material to be class O as per BS 476 Part 6 &amp;Part 7 with density of 48kg/m<sup>3</sup>, thermal conductivity 0.019W/mK. Water Absorption not more than 0.03% as per EN13403 standard. Duct should be able to handle pressure of up to 2000 Pascals</p>	<p>Updated</p>

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		to handle pressure of up to 2000 Pascals		
	<b>Technical Bid, Page-01, Page-05, CI-1-4,</b>	Last date and time for closure of bidding and receipt of Bid Documents:- <b>20/11/2019 till 1500 Hrs</b>	Last date and time for closure of bidding and receipt of Bid Documents:- <b>27/11/2019 till 1500 Hrs</b>	Updated <b>completely filled and signed Bids to be submitted along with signed Corrigendum-01</b>
	<b>Technical Bid, Page-05, CI-1-5,</b>	Date and Time of Technical Bid Opening:- 20/11/2019 at 16:00 Hrs	Date and Time of Technical Bid Opening:- <b>27/11/2019 at 16:00 Hrs</b>	Updated

### Clarification to the Queries

Sr. No.	Tender Reference Details / query	Existing Provision	Clarification
1	<b>Commercial BID Volume II / Page 6</b>  Utility of Item 9-a	SITC THERMAL INSULATION Elastomeric nitrile rubber 40-60 kg/m <sup>3</sup> with thermal conductivity < 0.035 W/m <sup>2</sup> K at an average temperature of 0°C; Fire Propagation compliance as per BS476 Part 6 to meet the Class 'O' Fire category (without Al/outer metallic foil); Water vapor permeability shall not exceed 0.017 Perm inch (2.48 x 10 <sup>-14</sup> Kg/m.s. Pa). Thickness 9mm.	This is the quantity considered to cover exposed metallic part like dampers, and part of the indoor machines.
2	<b>Commercial BID Volume II / Page 6</b> Item 10-a	SITC of ACCOUSTIC INSULATION Acoustic insulation of ducts with 10 mm thick nitrile rubber of class o Material with class 1 smoke propagation index as per BS 476 class vi & vii std. with 140-180 Kg/m <sup>3</sup> density.	For Trap Doors inside false ceiling,
	We need clarification on the portable AC's that have to be used for the working floor	—	Pls refer updated <b>Commercial BID Volume II / Page 9, Item 16</b>  <b>updated Technical BID Volume I / Page</b>

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	area. It will not be possible to cool the entire area. Kindly clarify on the no of machines that we have to consider.		46, Cl. 10-ii,
	<b>Commercial BID Volume II / Page 2/ Page4</b> Referring to the BOQ, kindly mention the exact supply, installation, testing and commissioning.	[ Part "A"]- Schedule of Equipment and Price [ PART "B"]- Supply, Installation & Commissioning - Low Side Work	Updated Refer revised Document
3	<b>Technical Bid, Page-46, Cl-10-I</b> , Housekeeping work: It won't be possible to keep the place spick and span as we have to remove the false ceiling in most areas to dismantle the existing system. Kindly clarify.	a. Housekeeping work – Putting plastic cover on all over existing furniture, systems to avoid dust going and damage the same. b. Cleaning up all construction material and making good the floor for next day for working staff.	Contractor to consider it as a part of Tender and should Quote the rates accordingly.
4	Referring to yesterday's meeting, how much of the actual false ceiling will have to be removed as it was first mentioned that only the periphery will have to be dismantled.	-	This item is not in the scope of HVAC Contractor.  Refer <b>Technical Bid, Page-46, Cl-10-III</b> ,
5	<b>Commercial BID Volume II /Part B, SITC</b> of PIR Ducting, ducting is already insulated then clarify the requirement of thermal and acoustic insulation.	-	PIR Ducting not required additional insulation from outside, Thermal & Acoustics insulation shall be used for Damper, Non insulated Ducting area, Trap Doors from inside Ceiling.
6	Installation of the DX units is not considered as a line item in the BOQ.	-	Pls refer Commercial BID Volume II / Page 04, Part B Item 1.f

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7	In the unloading of the ODU's where will they be placed, if on the terrace then is there a service lift or do we have to included crane charges.	–	Vendor to consider All Horizontal and Vertical Movement transport in scope. Included crane charges
8	Will we get storage for our material to be placed at site?	–	Area will be given in the Basement, Temporary Lock and key arrangement has to be done by contractor.
11	Civil, carpentry and other work will be scope of particulate agency only not in HVAC	–	Only HVAC system related work will be in the scope of HVAC Contractor.  Refer <b>Technical Bid, Page-46, Cl-10-III,</b>
12	Safe route for dismantling of AHUs, Piping, Chillers, Pumps to be specified.	–	AHU and Piping and Cooling tower etc. Items shall be transported from staircase and Pumps are located in basement,. Items will be carried out from basement to ground by Ramp.

- All the intending bidders are also required to sign on each page of the **Corrigendum-01** and submit it along-with the tender document Part-II, as a token of acceptance.
- All other terms and conditions of the Tender document shall remain unchanged.
- The revised Tender Docuemnts(Technical & Financial Bids), Corrigendum, clarification to queries and layout is plan is uploaded on website alongwith.
- Regarding any queries consultant(M/s Litrum) may be contacted on mail@litrum

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