



Indian Institute of Science Education and Research Bhopal
Institute Works Department
Indore Bypass Road, Bhouri, Bhopal – 462 066

No.: IWD/SE/Minutes-pre bid/2016-17/20

Dated:10.01.2017

Minutes of the pre bid meeting held on 10.01.2017 at 03.00 PM

Name of work - Furnishing of Biology labs in Academic Block-3 at IISER Bhopal (SH: SITC of HVAC, Fire Alarm System and Electrical works for Central Block)

NIT No. : IWD/SE/NIT/2016-17/035 dated 03.01.2017

The following were present:

A) IISER Bhopal

- 1) Sh. Madan Pal, SE, IWD, IISER Bhopal
- 2) Sh. Arun Gaind, Sr. PE (E)-II, IWD, IISER Bhopal
- 3) Sh. Vivek Anand, APE (E)-III, IWD, IISER Bhopal

B) Representatives of the Bidders:

- 1) Sh. Mohit Parnami , M/s LG Electronics, India Pvt. Ltd., Bhopal
- 2) Sh. Pinkesh Ghiya, M/s Citizen Industries, Ahmedabad

The following issues were raised, discussed and clarified / modified as under:

Sl. No.	Ref. to Document / Page No. / Item No.	Issues	Clarifications / modifications by IISER
A		M/s LG Electronics, India Pvt. Ltd., Bhopal	
A-1	Schedule of Quantities (Part - C) / 3 / 1.1	Item is HIGH STATIC CEILING CONCEALED DUCT TYPE INDOOR UNIT (AHUs). Description of the item needs clarification, whether it is Ceiling suspended AHUs or Concealed Ductable Unit (AHU)	Item description of SOQ Item No. 1.1 is modified and may please be read as under: Supply, installation, testing & commissioning of High static ceiling concealed duct type indoor unit with multi speed fan, 3 or 4 row Cooling coil of Copper tubes and Aluminum fins, electronic expansion valve, Cleanable filter, Insulated drain pan with built in auto drain pump & suitable inter lock between Indoor & the drain pump, remote sensor, Mounting stands / Support and corded remote controller. Ductable Indoor unit should be with slide out washable nylon wire mesh/HDPE filters with dirt trap and aluminium frame work, statically and dynamically balanced blower unit mounted on the shaft of the motor and housed in a scroll etc. Selector control unit with push button, selector switch for

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			<p>multispeed fan operation shall be provided for all units.</p> <p>Complete unit shall be supported on suitable MS support frame duly epoxy painted over & above 2 coats of red oxide zinc chromate primer. In addition Vibration isolator pads, spring isolators, vertical hanging supports, base plate & anchor bolts shall be provided alongwith the Units. The Fan section shall be duly lined with Acoustic Insulation. The external surface of the unit shall be 19mm thk thermally insulated to prevent sweating from the surface of the unit (Make should be of same as VRF ODU make).</p> <p>Complete Units shall be mounted on a common base frame and shall carry Lifting Lugs on all four sides to ceiling support the unit. Suitably rated 'SH' series spring isolators should be provided between the Base frame and the DSU. (GA drawing for the hanging arrangement shall be got approved from the engineer-in-charge)</p> <p>Cost of all the above mentioned support structure and accessories shall be included in quoted rate for this item.</p> <p>All dampers shall be with lock & graduation arrangement.</p> <p>The details to be read as AHU Tag No. /Supply air Blower CFM/ Cooling coil capacity/ External Static pressure.</p>
B		IISER, Bhopal	
B-1	Schedule of Quantities (Part - C) / 5 / 1.2.1	Item Description	<p>Item description of SOQ Item No. 1.2.1 is modified and may please be read as under:</p> <p>Supply & Fabrication of MS supporting structures with one coat of epoxy paint over & above two coats of red oxide zinc chromate primer for ODU mounting. (GA drawing for the stands shall be got approved from the engineer-in-charge)</p>
B-2	Schedule of Quantities (Part - C) / 7 / Part-B	Item Description	<p>Item description of SOQ Item Part-B is modified and may please be read as under:</p> <p>Supply, Installation, Testing & Commissioning of VRF SYSTEM FOR ODUs / HI-Wall / CASSETTE comprising of items listed below</p>

Sl. No.	Ref. to Document / Page No. / Item No.	Issues	Clarifications / modifications by IISER
B-3	Schedule of Quantities (Part - C) / 7 / 3	Item Description	<p>Item description of SOQ Item No. 3 is modified and may please be read as under:</p> <p>Supply , Unloading, lifting, shifting, rigging to respective locations, installation, testing, commissioning and handing over of outdoor units for air conditioning system, including supply of anti-vibration pads, mounting fasteners (GI / SS), based on variable refrigerant mass flow with Heat Pump (should run either Heating or Cooling on R410a Refrigerant Gas), comprising of full Inverter output compressors with acoustic encloser for low noise, condenser coil & fins provided with anti-corrosive treatment, necessary accessories for oil separation, moisture removal, flow control, interconnecting piping, low noise condenser air fan, electrical and microprocessor based panel, interconnecting cabling and any other related items as per the manufacturers standards to be included, all housed inside a weather-proof cabinet suitable for exposed installation on terrace. The Unit must be 100% compatible with existing BMS installed in AB-3.</p> <p>The unit/s must also be provided with self addressable control system for control of indoor & other outdoor machines, Suction & Liquid line Isolation valve. Capacity to be calculated at 45 degree C ambient DBT & 23 degree C indoor DBT at 60% RH. The capacity calculation along with performance and power consumption curves, deration / correction factor curves / charts for indoor temperature and piping derations must be submitted with tender. The VRF ODU Tender specification Section 7 has to be referred for any further clarification. Additional R410a gas charge to make the HVAC system complete shall be included in the quoted price.</p> <p>VRV / VRF ODUs for the below stated machines shall be as per the specifications. This shall include the nitrogen leak testing, oil charging, vacuumization, refrigerant filling, vibration isolation pads etc. and other</p>

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			accessories as per the Specs & Tender drawings along with lifting & shifting to respective position but excluding the cost of MS support structure for ODU which will be paid under Item No. 1.2.1.

All other contents of the tender document remain unchanged.

All concerned are requested to take note of the above & quote their bid accordingly. These minutes of meeting are to be signed by the bidder & submitted with the tender document.


(Madan Pal) 10/1/17

Superintending Engineer
IWD, IISER Bhopal

Copy to:

- 1) All agencies who purchased the tender documents for information & needful.
- 2) The Sr. PE (E)-II, IWD, IISER Bhopal for information.
- 3) The Project Asst. Engineer (E), IWD, IISER Bhopal for information.
- 4) Sh. Chandroo Iyer, M/s Chandroo Iyer Associates, Bangalore
- 5) Sh. Sundar D.B., M/s Chandroo Iyer Associates, Bangalore