

SUB: MINUTES OF THE PRE-BID MEETING HELD ON 31.05.2011 AT IACS FOR THE PROPOSED INSTALLATION OF VRF TYPE AIR-CONDITIONING SYSTEM (HAVING DIGITAL SCROLL TYPE COMPRESSOR) AND 5-YEARS POST WARANTEE COMPREHENSIVE AMC FOR THE CENTENARY BUILDING OF IACS, JADAVPUR.

Ref: NIT no. EI/046/Adm/11

Dated 23.05.2011

The pre-bid meeting was held at IACS on 31.05.2011 as per the terms of the referred NIT. The following Representatives from the under mentioned pre-qualified bidders were present in the meeting.

- i. Mr. Arindam Sarkar from M/s Bluestar Ltd
- ii. Sk. Sahanawaj Ahmmmed from M/s Carrier Air-Conditioning & Refrigeration Ltd.
- iii. Mr. Swarup Mukherjee from M/s Voltas Ltd

At the outset, Mr. S. Bose, T.O. (Electrical)-Convener welcomed all the participants for attending the meeting. The meeting was conducted by Prof. G.B. Talapatra, Chairman of the HVAC Committee. A thorough discussion had taken place to elucidate the queries as raised by the representatives of the prospective bidders. The consultant of the project M/s GBA participated in the meeting and addressed the queries from their part as raised by the intending bidders. Accordingly, the following decisions have been taken by the IACS authority. Hence, all the intending bidders are requested to go through this minute of the pre-bid meeting carefully before quoting of their rates.

1. The capacity of the Treated Fresh Air (TFA) units shall have to be taken out from the VRF outdoor units capacity. The total capacity of the out door unit for the office and laboratory area for the second and third floor shall now be considered as 144.4 TR instead of 180.6 TR when operating at an entering air temperature to the outdoor unit at 40.5 Deg C. However, suitable de-rating factors are required to be considered to arrive at the actual capacity of the units to be offered. The consideration of de-rating factor to be substantiated with authentic documents from the manufacturer's end.
2. The TFA capacity for the second floor shall be 17.5 TR and that of third floor shall be 18.5 TR. Both of these capacities to be obtained when the outdoor units operate at 40.5 Deg C. The air Handlers for both the floors to be located on both side of the corridor (inside the AHU room marked in the drawing and the same shall be ceiling suspended type) to cater approximately 50% of the floor fresh air needed. The air handlers shall be Dx (Direct expansion) type with 6 Row deep cooling coil. The TFA system shall be complete with all accessories, refrigerant piping, pipe insulation etc. The entire cost shall be given against the respective item as one item only. The necessary technical criteria may be reflected in the techno commercial bid for understanding. However, the connected ducting, dampers and duct insulation shall be paid on the unit rate as per the accepted rate in the tender. The make for the air handlers shall be Blue

Star/Voltas/Edgetech/Ethos/ETA. The make of the condensing units shall be Voltas /Blue Star/Carrier.

3. The row deep of the coil considered for the 8 TR indoor units under sl no B.5 of the B.O.Q shall be read as 3/4 Row whichever will be available. But during evaluation of tender, loading/unloading in this regard will be made accordingly.
4. The outdoor units (ODU) shall be offered with minimum 33% digital scroll of the total capacity of each module/ODU. However, the outdoor units of capacity above 20 HP shall consist of 2 nos. digital scroll (minimum) having minimum 33% coverage.
5. We also intend to get an additional item to be incorporated for the facility to interface the entire VRF system to a computer console. This shall facilitate to display the operating parameter and diagnostics for the entire system for the following minimum but not limited to parameters:
 - a. Unit on/off.
 - b. Unit set temperature.
 - c. Room temperature

Therefore, intending bidders shall offer the price for the above system against item no. E

The above computer console will be located within the building in a suitable place to be selected by the client.

6. **The Liquidated Damage clause (Clause no. 60.0 of the Tender document) is revised as under:**
 - i. **For contracts having stipulated time for completion not exceeding 6 months: The revised rate is 0.50% of the tendered amount per week or part thereof of delay subject to a maximum of 5% of the accepted sum in the tender.**
7. **Opening of LC towards importing VRF Equipments: At this moment, we are unable to consider this appeal.**
8. Payment (Clause 43): Agreed to release 75% of the accepted cost of the equipments against each individual item of supply [e.g. item no. A1, A2, B, C, D, F (i), F (ii) etc]. However, an indemnity bond is required to be submitted as per our prescribed format on appropriate value of non-judicial stamp paper. Out of the balanced 25% of the accepted amount, 15% will be released against successful completion of the installation & the rest 10% will be released after successful commissioning based on actual measurement. However, in each case, Security Deposit will be deducted from the bill as per Clause no. 22 (a) & (b) of the tender documents vide page no. 20 of NIT.
9. Consequent upon changes in the original BOQ, a revised BOQ is enclosed herewith for quoting of rates by the intending pre-qualified bidders. Accordingly, the estimated cost & EMD has been revised. The intending pre-qualified bidders

are requested to follow our website (www.iacs.res.in) till 14.06.2011 for observing any development regarding this work.

10. The revised estimated cost to be considered as **Rs. 2,04,15,600/-** instead of Rs. 1,90,00,000/- as published earlier consequent upon changes in the BOQ (for which revised BOQ has been framed) when the revised EMD amount will be **Rs. 4,08,300/-**
11. The Outdoor unit (ODU) installation shall be considered one part at the East-South corner and other part at West- South corner on the roof of the Building.
12. **Consequent upon the above changes, the last date of submission of tender has been rescheduled on 15.06.2011 (up to 2.00 P.M.).**

(S. BOSE)
Technical Officer (Elect.)
& Convener, HVAC
Committee