

No. El/ 147/Adm/12

Dated 03.04.2012

MINUTES OF THE PRE-BID MEETING

Name of work: Design, Supply, Installation, Testing & Commissioning of Air Conditioning System for the CRAY Super Computing System at IACS, Jadavpur

Ref: NIT No. El /137/Adm/12, Dated 15.03.2012

A pre-bid meeting for the above referred Tender held on 02-04-2012 at IACS, Jadavpur wherein as per terms of the NIT, the following points have been discussed based on the queries raised by the attending bidders.

Regarding introduction of DX type evaporator instead of chillers system:-

Considering the importance of the Super Computing System (CRAY) and in view of continuous operation (24 x 365 days), IACS has decided to install Chillers as mentioned in the NIT instead of DX type evaporator in order to have better flexibility and more reliability of the System and therefore, this proposal for DX type evaporator is discarded by the IACS.

Regarding introduction of reciprocating type compressor instead of scroll compressor:

After thorough discussion, the proposal of reciprocating type has been discarded considering some positive advantages including energy saving etc on the use of scroll type compressor over reciprocating type compressor.

Regarding supply of conditioned air at the bottom entry point (under false fl.) of the Server:-

It is mentioned that, the under floor air temperature range should be in the range of 10⁰ C to 16⁰ C with relative humidity range between 60% and 90% (non-condensing) which has also been mentioned in the Tender Documents.

Regarding make of chillers & AHU: -

This will be as per NIT.

Important features to be noted for the Design & selection of components of the AC system:

The bidders have to consider the following points during Design & selection of various components of the AC system i.e. **inside room condition, Ambient air condition, ADP, Dehumidified air CFM, Sensible Heat Factor (which should be above 0.9), Tonnage of Refrigeration (TR), Hardness of Water (350 ppm approx) etc. However, if precision type AC is offered, the above points are also to be considered.**

Controls for the AHU

As per NIT, the indoor unit is supposed to deliver the conditioned air at a particular temperature and RH. To monitor the same the controls like thermostat and humidistat are to be installed as required in stages based on the design of the AHU, heater and humidifier. This was clarified to the bidders present in the meeting. Also from the system description in NIT presumes the same. Hence price for the AHU shall include the above.

Regarding make of Scroll compressor

It is expected that the make of the scroll compressor shall be of same as that of the chillers. However, if the Chillers manufacturers do not manufacture scroll compressor by themselves, they are allowed to use Copeland or any other make of internationally repute having service centre in India (preferably at Kolkata) subject to approval of IACS.

A site visit is also organized at the end of the meeting.

The meeting ended with vote of thanks to the Chair.

Technical Officer (Elect.)
IACS, Jadavpur