



Indian Institute of Technology Madras

I.I.T. P.O., CHENNAI - 600 036.

Ref. No. MEE 12-13 303 DSTX KSRS VII

Date: 31.65.2016

Dear Sirs,

DUE DATE: 21. 0 6. 2016

- 1. Quotations are invited in duplicate for the various items shown below / overleaf / enclosed list.
- 2. The Quotations duly sealed and superscribed on the envelope with the reference No. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above.
- 3. The Quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
- 4. If the item is under DGS & D Rate contract. Rate Contract Number and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price. If so, please send copy of the R.C. (Please note that we are not Direct Demanding Officers)
- 5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable samples if called for, should be submitted free of charges, and collected back at the supplier's expenses.
- 6. Local Firms: Quotations should be for free delivery to this Institute. If Quotations are for Ex-Godown, delivery charges should be indicated separately.
- 7. Firms Outside Chennai: Quotations should be for F.O.R. Chennai. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If-Ex-Godown, packing, forwarding and freight charges must be indicated.
- 8. The rate of Sales / General Taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no cliam for Sales / General Taxes will be admitted at any stage and on any ground whatsoever. The taxes leviable should take into consideration that we are entitled to have Concessional Sales Tax applicable to Non-Government Educational Institutions run with no profit motive for which a concession. Sales Tax Certificates will be issued at the time of final settlement of the bill.
- 9. Goods should be supplied carriage paid and insured.
- 10. Goods shall not be supplied without an official supply order.
- 11. Payment: Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later.

 Yours faithfully

Details as per enclosed list.

Dr. K. SRINIVAS REDDY

Professor

Heat Transfer and Thermal Power Laboratory

Department of Mechanical Engineering

Indian Institute of Technology Madras

CHENNAI-600 036.

HEAD OF THE DEPT. / PROJECT CO-ORDINATOR

*Strike out whichever is not applicable.

| | Specification for Supply and Erection | on of Solar | & | |
|--------|--|-------------|---------------|--------|
| 1 Hot | Water Circuit Chiller Pipelines and Access | ories | | |
| SI No | Item | | | |
| 1 | MS FRW C Class Ding | Size | Quantity | Units |
| 2 | MS ERW C Class Pipe with bends and reducer MS Flange CI 150 | 25 NB | 52 | Mtrs |
| 2 | MS Header | 25 NB | 38 | Nos |
| 1 | Ball Valve | 100 NB | 1 | Nos |
| 5 | Needle Valve | 25 NB | 9 | Nos |
| | CI Y Strainer | 25 NB | 10 | Nos |
| 6 | DISC Type NRV | 25 NB | 1 | |
| / | | 25 NB | 5 | Nos |
| 8 | Hot Water Circulation Pump (Grundfos) (2.9 m ³ /h) Product Name: CR 3-4 A-A-E-HQQE - 96516592 | | 1 | Nos |
| 9 | INS Structure for Pumps. Tanks and Pining Supports | | 250 | kg |
| 10 | 55 Wetai Braided Hose 10 Mtrs Lenghth | 15 NB | 6 | Nos |
| 11 | Air Vent Valve | 15 NB | 7 | Nos |
| 12 | Mineral wool Insulation for pipes with Aluminum sheets 26 SWG Cladding | 25 NB | 52 | Mtrs |
| 13 | Insulation for Hot water Header | 100 NB | 1 | No |
| 2.Chil | led Water Circuit | | | |
| SI No | Item | Size | Quantity | Units |
| 1 | UPVC Pipe with bends and reducers | 32 NB | 12 | Mtrs |
| 2 | UPVC Union and Sockets | 32 NB | 8 | Nos |
| 3 | Ball valve | 32 NB | 3 | Nos |
| 4 | Needle valve | 32 NB | 2 | Nos |
| 5 | CI Y Strainer | 32 NB | 1 | Nos |
| | Chilled Water Circulation Pump | | | |
| 6 | mini monobloc Pump 0.5 HP (2 m³/h) | | 1 | Nos |
| 7 | Chilled water line rubber foam insulation | 32 NB | 12 | Mtrs |
| 8 | Cylindrical 200 Ltrs Tank | | 1 | Nos |
| 9 | Tank Insulation -Rubber foam | | 1 | Nos |
| 3 Cool | ing Water Circuit | | | |
| | | Size | Quantity | Units |
| SI No | CPVC Pipe with bend and reducers | 40 NB | 12 | Mtrs |
| 1 | CPVC Union and Sockets | 40 NB | 8 | Nos |
| 2 | | 40 NB | 4 | Nos |
| 3 | Ball valve | 40 NB | 4 | Nos |
| 4 | Needle valve | 40 NB | 1 | Nos |
| 5 | CIY Strainer Non return Valve | 40 DN | 3 | Nos |
| 6 | Cooling water Circulation Pump mini | | | |
| 7 | monobloc pump 1 HP (5 m ³ /h) | | 1 | Nos |
| | | 40 NB | 12 | Mtrs |
| 8 | Insulation- Mineral wool (i) The complete piping work shall be carried out in account of the complete piping work shall be carried out in account of the complete piping work shall be carried out in account of the complete piping work shall be carried out in account of the complete piping work shall be carried out in account of the complete piping work shall be carried out in account of the complete piping work shall be carried out in account of the complete piping work shall be carried out in account of the complete piping work shall be carried out in account of the complete piping work shall be carried out in account of the complete piping work shall be carried out in account of the complete piping work shall be carried out in account of the complete piping work shall be carried out in account of the complete piping work shall be carried out in account of the complete piping work shall be carried out in account of the complete piping work shall be carried out in account of the complete piping work shall be carried out in account of the complete piping work shall be carried out in account of the complete piping work shall be carried out the complete pip | ordance wit | th the Piping | layout |
| | (ii) Provisions for Pressure, Temperature sensor and no Pipe lines | wmeter show | uld be provid | ded in |
| | (iii) Site Visit is Allowed | 101 | 9 | 3 1 |
| | | 12 | 0 | |

