



INDIAN INSTITUTE OF TECHNOLOGY MADRAS
ENGINEERING UNIT

CHENNAI – 600 036

Price Bid (Volume 2)

T. No 25/2013-14/Eldb

Name of the work : **Providing Airconditioning Facilities for the Nano Lab at MSRC Second Floor in IITM Campus.**

Date of Submission of Technical & Price bid : 03.00 pm on 03/09/2013

Date of opening of Technical bid : 03.10 pm on 03/09/2013

Date of opening of Price bid : Will be intimated later.

Bid Submitted to : The Executive Engineer (E),
Engineering Unit,
Administrative Block III Floor,
IITM, Chennai-36

-Sd-
Consultant (Elec)

-Sd-
Executive Engineer (Elec)

INDIAN INSTITUTE OF TECHNOLOGY MADRAS
ENGINEERING UNIT

CHENNAI – 600 036

<p style="text-align: center;">TENDER DOCUMENT</p> <p style="text-align: center;">FOR</p> <p>Providing Airconditioning Facilities for the Nano Lab at MSRC Second Floor in IITM Campus.</p>
<p style="text-align: center;">VOLUME-2 (PRICE BID)</p>
<p style="text-align: center;">BILL OF QUANTITIES</p>
<p>Other volume:</p>
<p>Vol-1: Notice inviting tenders, Conditions of Contract, Additional specifications, General Conditions of Contract , list of approved makes etc.,</p>

INDIAN INSTITUTE OF TECHNOLOGY MADRAS,CHENNAI 36					
Name of work: Providing Airconditioning Facilities for the Nano Lab at MSRC Second Floor in IITM Campus					
T.No: 25/2013-14/Eldb					
Sl. no	Description	QTY	Unit	Rate	Amount
1	Supply, installation testing and commissioning of air Cooled Ductable Split Unit of specified capacities. The indoor units shall be ceiling suspended type. The indoor unit shall comprise of Fan, Cooling Coil, Filter and Expansion device. The Outdoor unit shall comprise of Hermetic scroll compressors. Air cooled condenser & Condenser fan. If multiple compressors are offered, they shall have independent refrigerant circuits. Also, Compressors shall be cut-off automatically under part load conditions. The units shall have microprocessor controls. Scope shall include all supports for the indoor and outdoor units and connect the indoor unit with the new ducts. The units shall be selected for Chennai Ambient Conditions as specified. The units shall be factory assembled and only the refrigerant piping carried out at site.				
1a	11 TR Ceiling suspended	1	Each		
(Rate in words Rupees.....)					
1b	5.5 TR Ceiling suspended	3	Each		
(Rate in words Rupees.....)					

2	Refrigerant piping(Suction & discharge) drawn from hard copper tube of suitable sizes, with copper elbows, tees, necessary hard ware for installation etc. with thermal insulation covering etc as required for above ceiling suspended units	80	Metre		
(Rate in words Rupees.....)					
3	First charge of refrigerant & oil for the above units (5x 5.5TR Compressors)	5	Each		
(Rate in words Rupees.....)					
4	Fabrication, Supply, installation of Galvanized steel sheet ducting complete with sheet metal / angle iron /C-cleats as required, GI fasteners, bolts, nuts and washers guide vanes as required, supports shall be threaded rod and galvanized supports etc.				
4a	22 SWG	120	sqm		
(Rate in words Rupees.....)					
5	Supply & fixing of 25 mm thick rock wool stuck to the inside surface of ducts with synthetic adhesive as inside lining of ducts as acoustic insulation.	25	sqm		
(Rate in words Rupees.....)					
6	Supply and fixing of aluminum powder coated 4 way supply air diffusers with aluminum collar damper on the rectangular ducts.	5	sqm		
(Rate in words Rupees.....)					

7	Supply and fixing of aluminum powder coated 4 way return air diffusers after making necessary cutting on the false/wooden false ceiling.	8	sqm		
(Rate in words Rupees.....)					
8	Supply and fixing of fire dampers of the fusible link operated type, made out of 18 G GI frame and 22 G GI blades at the supply, return and Fresh air paths.	2	sqm		
(Rate in words Rupees.....)					
9	Supply & fixing of fresh air dampers with 20 micron filters, Cowl as rain water protection & bird mesh.	5	sqm		
(Rate in words Rupees.....)					
10	Supply & fixing of Fire retardant synthetic canvass connection with a provision to measure the canvass temperature at the mouth of 5.5/11 TR Ductable unit.	4	Each		
(Rate in words Rupees.....)					
11	Supply and laying of 40 mm dia PVC drain piping of 4 kg /cm ² rating complete with Insulation(Nit rile Rubber), supports, fittings like elbow, tee joints, screws, clamps etc.	70	Metre		
(Rate in words Rupees.....)					

12	Supply, laying, terminating, testing and commissioning of PVC insulated, PVC sheathed steel armoured copper 1100V grade power/control cable as required with terminations.				
12a	4C X 6 sqmm	80	Metre		
(Rate in words Rupees.....)					
12b	6C X 1.5 Sqmm Copper cable for control	80	Metre		
(Rate in words Rupees.....)					
12c	End Terminations using Copper Lugs	1	L.S		
(Rate in words Rupees.....)					
13	Supplying, installation testing and commissioning of following rating split air conditioners of approved model of Hitachi/ Carrier /Vestar with copper heat exchangers, rotary compressors with 3 star rating. The rate shall inclusive of copper piping with insulation and power chord of standard installation upto 4.0 meters long.				
a	1.0 TR split AC	1	Each		
(Rate in words Rupees.....)					
b	1.5 TR split AC	6	Each		
(Rate in words Rupees.....)					
c	2.0 TR split	1	Each		
(Rate in words Rupees.....)					

14	Extra refrigerent piping and power chord(Copper) for above Acs	25	Meter		
(Rate in words Rupees.....)					
15	Standard mounting angle	8	Each		
(Rate in words Rupees.....)					
Total					

Total Amount in words Rupees

.....
.....
.....

Signature of the contractor

**-Sd-
Consultant (Elect)**

**-Sd-
Executive Engineer (Elect)**