



**INDIAN INSTITUTE OF TECHNOLOGY MADRAS
ENGINEERING UNIT**

CHENNAI – 600 036

Price Bid (Volume 2)

T. No 06/2013-14/Eldb

- Name of the work** : Annual Comprehensive Maintenance of Air conditioners in various departments (Zone - 1) in IIT Madras for the year 2013–14.
- Date of Submission of Technical & Price bid** : 03.00 pm on 29/01/2013
- Date of opening of Technical bid** : 03.10 pm on 29/01/2013
- 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>TENDER DOCUMENT</p> <p>FOR</p> <p>Annual Comprehensive Maintenance of Air conditioners in various departments (Zone - 1) inside IIT Madras for the year 2013–14.</p>
<p>VOLUME-2 (PRICE BID)</p>
<p>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					
T. No. 06/2013-14/ELDB					
Name of Work: Annual Comprehensive Maintenance of Air conditioners in various departments (Zone- 1) in IIT Madras for the year 2013-14.					
PART - A					
Sl. No	Description of work	Qty	Rate/ annum	Per	Amount
1	Comprehensive annual maintenance charges for the Window, split, package, ductable, cassette model air conditioners of following capacity including replacement with new compressors and all spares of the machines like indoor units, fan motors and blades, condensers, remote controllers, control wirings and terminal blocks & cover, vacuumising, pressure testing and gas filling if necessary during maintenance. (Machine details and locations as per Annexure)				
a	0.8/1.0/1.5/2.0 TR	865		Each	
(Rate in words Rupees)					
b	3.0/4.0 TR	28		Each	
(Rate in words Rupees)					
c	5.0/5.5 TR	38		Each	
(Rate in words Rupees)					
d	7.5/8.0/8.3 TR	15		Each	
(Rate in words Rupees)					
e	10.0/11.0 TR	5		Each	
(Rate in words Rupees)					

2	Comprehensive annual maintenance charges for the Clean room type Air conditioners including replacement with new compressors and all spares of the machines/spares like indoor units, fan motors and blades, condensers, remote controllers, timers contactors, gaskets, temperature indicators, toggle switch & bulb, control wirings and terminal blocks & cover, vacuumising, pressure testing and gas filling if necessary during maintenance.				
a	5.5 TR	1		Each	
(Rate in words Rupees)					
b	7.5 TR	1		Each	
(Rate in words Rupees)					
c	10.0 TR	1		Each	
(Rate in words Rupees)					
TOTAL (Part A)					

Total for Part A Amount in words Rupees

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PART - B
(Special Allied Works)

SI. NO	Description of work	Qty	Rate	Per	Amount
1	Charges for removing the following rating /model air conditioners from the existing position including transport and safely handed over to store.				
1a	Up to 2.0 TR window model ACs	50		Each	
(Rate in words Rupees)					
1b	Up to 2.0 TR split model Acs (both indoor & Outdoor unit)	50		Each	
(Rate in words Rupees)					
1c	3.0/4.0 TR multi split Acs	10		Each	
(Rate in words Rupees)					
2	Installation charges for the following rating split/ductable split/package and cassette type air conditioners from one position to other position including the pump down, nitrogen pressure testing, vaccumising and refilling of gas and making the machine in good working condition. (ACs will be supplied from our stores at free of cost. The contractor should arrange for transport from stores to respective locations.				
2a	Up to 2.0 TR window model Acs	20		Each	
(Rate in words Rupees)					
2b	Up to 2.0 TR split model Acs(both indoor & Outdoor unit)	20		Each	
(Rate in words Rupees)					
3	Gas charging for 1.5TR/2.0 TR compressor including pressure holding and leak testing.	10		Each	
(Rate in words Rupees)					
4	Refrigerant copper piping (Suction & discharge) for split ductable split and cassette type air conditioners up to 3.0 TR.	50		Meter	
(Rate in words Rupees)					

5	Thermal insulation for copper pipes by one coat of aero of cotton nada with good finishing, necessary insulating materials (Necessary scaffolding/ladder to be provided by the contractor).	100		Meter	
(Rate in words Rupees					
6	Supplying & replacement of condensing/evaporator coil with copper tube with aluminium fins in place of aluminium tube with aluminium fins of the following Acs				
a	Up to 1.5 TR window AC	5		Each	
(Rate in words Rupees					
b	Up to 2.0 TR split model Acs	5		Each	
(Rate in words Rupees					
7	Supply and fixing of following accessories while attending shifting the Acs from one location to other location/not covered under the AMC/warranty.				
a	2.0 TR compressor	2		Each	
(Rate in words Rupees					
b	1.0TR/1.5 TR compressor	2		Each	
(Rate in words Rupees					
c	45 MFD capacitor	10		Each	
(Rate in words Rupees					
d	Reconditioning of Outdoor fan motor suitable for split Acs up to 2.0TR	3		Each	
(Rate in words Rupees					
e	Reconditioning Indoor fan motor suitable for split Acs up to 2.0TR	3		Each	
(Rate in words Rupees					
f	25 mm water line drain pipe	100		Metre	
(Rate in words Rupees					

g	38/40 mm water line drain pipe	50		Metre	
(Rate in words Rupees)					
h	50mm dia water line drain pipe	50		Metre	
(Rate in words Rupees)					
i	3 core 2.5 sq.mm copper Chord wire	50		Metre	
(Rate in words Rupees)					
j	out door fan blade	3		Each	
(Rate in words Rupees)					
k	Mounting angle for outdoor AC unit	3		Each	
(Rate in words Rupees)					
l	PCB serving for Acs up to 2.0 TR	3		Each	
(Rate in words Rupees)					
m	Strainer capillary tube	3		Each	
(Rate in words Rupees)					
n	Fan capacitor	5		Each	
(Rate in words Rupees)					
TOTAL (Part B)					

Total for Part B Amount in words Rupees

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Tender No.06/2013-14/Eldb

Name of work: Annual Comprehensive Maintenance of Air conditioners in various departments (Zone - 1) in IIT Madras for the year 2013–14

Description	Amount in Rs.
Part-A	Rs.
Part-B	Rs.
Grand Total	Rs.

Grand Total Amount in words Rupees
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Signature of the Contractor

**Sd-
Consultant (Elec)**

**Sd-
Executive Engineer (Elec)**