

SPECIFICATION FOR SUPPLY, INSTALLATION AND COMMISSIONING OF HIGH WALL MOUNTED ROOM AIR CONDITIONER AT PCS, CANTEEN, DNA OF CORPORATION R & D UNIT HYDERABAD.

I SUPPLY OF AIR CONDITIONERS:

Supply of High wall mounted multi stage 3 star 2.0 TR rating split type room air conditioners and 1.5 TR 5 Star split type air conditioners of following capacity, with full function cordless remote with LCD display unit in handset operating facility and suitable to operate on 230V, 50 Hz, single phase AC supply and conforming to IS and as per our specification. The models fulfilling the following requirement alone are to be quoted.

- 1) Electronic Thermostat should be accurate and reliable to save power and precision cooling.
- 2) If the A/c is in auto mode it should adjust its performance automatically depending upon the temperature and heat generation.
- 3) Fins should be more resistant and anti-corrosion.
- 4) DRY MODE:** In case of sultry or high humid conditions, the air-conditioner should work on dry mode to dehumidify the air and removal of extra moisture from room.
- 5) High Micro Filter:** In addition to the dust filter the activated carbon electrostatic filter should be available to eliminate the odour of indoor and should trap fine dust and smoke particles for healthy air quality.
- 6) Time delay relay should be available to protect the compressor during intermittent power failure.
- 7) Memory back up should be available to retain setting even after power interruption to avoid resetting.
- 8) Oscillating louvers should be available to provide uniform cooling by circulating cool air to every corner of room.
- 9) Valve protection cover should be available to prevent water from dropping.

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| 01. | 2.0 TR 3 Star Rating High Wall Mounting split AC | 4Nos. |
| 02. | 1.5 TR 5 Star Rating High Wall Mounting Split AC | 3 Nos. |

The make of ACs shall be **Voltas / Blue Star make** only and the air conditioners have to be supplied with applicable standard guarantee and warranty clauses. The Guarantee certificates are to be supplied along with each AC unit. The Air Conditioners have to be supplied and installed at BHEL Corporate R&D Unit at Vikasnagar, Hyderabad - 500 593.

II INSTALLATION AND COMMISSIONING COMPLIANCE AGAINST EACH SHOULD BE CLEARLY PROVIDED BY SUPPLIER:

1. The above air conditioners have to be installed and commissioned at **AT PCS, CANTEEN, DNA** at corporate R & D.
2. The charges for E&C services may be quoted separately for standard installation. (Standard length of copper tube, cable etc. up to 4 meters).
3. The charges for extra length of the copper tube, cable etc. required beyond 4 meters may be quoted as per extra running meter rate (RMT) and extra RMT rate has to be quoted in the offer separately.
4. The offer should be submitted along with detailed Labour drawings/specifications/ technical details / literatures / catalogues etc. for the offered air conditioner. The rates for offered models have to be mentioned with applicable price for each model clearly. The catalogues pertaining to the offered models quoted, are to be furnished along with the offer.
5. Standard guarantee and warranty has to be extended to the supplied air conditioners. Guarantee certificate is to be submitted for each AC unit separately. The supplied AC units may be guaranteed for 18 months from the date of supply or 12 months from the date of commissioning whichever is earlier. The compressors have to be guaranteed for further 4 years. The offered compressor is to be of **rotary** type only.
6. **Pipe length:** Suitable copper pipes, cables and other accessories are to be supplied for the installation and commissioning of the air conditioner by the supplier. Extra copper tube, cable etc.
7. **Enclosures:** All pipes are to be properly installed and enclosed through 6mm thick sleeve type foam insulated and drain pipe with nylon braided PVC pipe and accessories and clamps etc. as per site conditions. The drain pipe has to be taken out up to the building outer wall exit point.
8. **Mounting:** All civil works such as grouting, making holes, chipping and laying of lines to be carried. Any other works required for the satisfactory completion of the installation and commissioning of the AC unit are in the scope of the supplier.

9. **BHEL Scope:** BHEL will provide 230 Volts, 50 Hz, Single phase AC main supply near the outdoor or indoor unit at one point only with electrical protection.

10. The rates for supply, installation and commissioning of the air conditioner as per the specification may be submitted in the following price schedule format enclosed.

11. The installation should match with the existing arrangement in Corporate R&D Unit and **offer should be submitted after inspection of the site conditions by the prospective vendors if necessary.**

PRICE SCHEDULE FORMAT

I. Supply Installation & Commissioning of high wall mounted room air conditioner of the following capacity with standard copper tube, cable etc. for a length up to 4 meters and as per the specification.

01	2.0 TR	High Wall Mounting split AC 2.0 TR Split 3 Star rating	4Nos.
02	1.5 TR	High wall mounting Split AC 1.5 Tr Split 5 Star Rating	3 Nos

II. Charges for providing extra length of copper tube, cable etc., per separate each running meter length basis (RMT) required beyond 4 meters for completion of installation and commissioning of the air conditioners may be quoted separately. (2.0 Tr 3 star split AC and 1.5 Tr 5 Star Split Ac))

Note: 1. The Ones responsibility for erection and commissioning is with the original equipment manufacturer. The quotation should include the Name and Tel. No / cell No. of the person responsible from OEM.

2. Supplier should enclose compliance statement against each installation and commission statement.