

| BILL OF QUANTITIES | | | | |
|--|--|------|--------|--------------------|
| SBI - ONLINE TENDER FOR CEILING MOUNTED DUCTABLE AC UNITS IN GROUND FLOOR RECEPTION, 2ND FLOOR (BOTH WINGS) AT LHO CHENNAI | | | | |
| Rate Should be inclusive all civil related to the A/c works as per the site conditions at all times. Core cutting, wall dismantling, plastering, Scaffolding should be inclusive of all items at all levels. | | | | |
| Sl.No. | Description | Unit | Qty | Quoted Rate/Amount |
| 1 | Part - A : Equipment Supply Supply of ceiling mounted ductable Air-conditioner with highly efficient compressors, R410A / R32 refrigerant and High static machines. Indoor unit - Indoor unit (IDU) shall be GI draw through type sectionalised construction, DX cooling coil of 100% copper tube aluminum fin construction, insulated drain pan, low noise condenser motor / blower, vibration isolators, filter section with 10 micro washable filter, special acrylic pre-coated heat exchanger, auto check function for connection error, auto address setting, indicators for temperature & mode, remote control with display, automated drain pump, etc. complete set as per the design of OEM. Outdoor - Outdoor unit (ODU) comprising of compressor, copper condenser coil with fan & motor, interconnecting refrigeration piping, starters, controls, cutouts, relays etc., complete set mounted inside a powder coated sheet metal cabinet as per the design of OEM and duly treated for corrosion protection. Makes: Hitachi / Daikin / Voltas / Bluestar / LG / Carrier | | | |
| a | 8.5TR ceiling mounted Non-Inverter ductable Air-conditioner | no. | 3.00 | |
| b | 8.5TR Ceiling mounted Inverter ductable Air-Conditioners | no. | 2.00 | |
| 2 | Installation Charges: Installation, Testing & Commissioning of above supplied Inverter air-conditioners (IDU & ODU) as per the installation standards of the OEM. The rate shall include cost of transportation, shifting, hoisting, mounting on the wall / floor bracket, first fill of refrigerant considering the entire length of the pipe, necessary civil works, vacuumising, pressure testing, isolation rubber pads, etc. complete. The work shall be carried out in all aspects as required by the Bank & OEM. 8.5TR ceiling mounted ductable Air-conditioner (Inverter / Non-Inverter) | job | 5.00 | |
| 3 | Refrigerant piping: S I T C of copper pipes for delivery & return of refrigerant from IDU to ODU as per the size and specifications of the OEM. The pipe should be insulated with 13mm thick nitrile rubber insulation, joint to be sealed 3mm thick black tape and exposed pipe to be covered with vapor barrier, supported by split clamps at frequent interval as per standard installation practices and with complete set of accessories. The refrigerant pipes shall be properly supported and anchored to the ceiling using anchor bolts, threaded rods, brackets, supports, angle frames, etc. The workmanship for the piping shall be carried out as per the recommended practice of the OEM. The piping to be vacuum tested and leak tested. Scope includes The rate shall include all necessary cost towards, supports, hardwares, necessary civil work, etc. The work shall be carried out in all aspects as required by the Bank. (1Mtr of refrigerant piping = 1 Mtr of delivery line + 1 Mtr of return line) Copper pipe makes : Total line / Mandev / Mexflow / Rajco; Copper Pipe Insulation makes : Armacell / K-flex / A-flex / Armaflex Hard drawn copper pipes for 8.5 TR Ceiling Mounted Ductable AC Inverter / Non-Inverter | Rmt | 100.00 | |
| 4 | Drain Pipe: Supply, installation, testing and commissioning 25/32mm dia. 10swg ISI make PVC drain piping (4Kg/Sq.cm) with 9mm thickness nitrile rubber insulation, U-Trap with flushing system to be provided, support at frequent interval as per standards with complete set of accessories. The drain pipes should be terminated in the nearby rain water harvesting pits or in the earth pits. The work shall be carried out in all aspects as required by the Bank & OEM. Drain pipe makes : Finolex / Prince / Truebore | Rmt | 90.00 | |
| 5 | Control Cable: Supply & laying of flexible copper control cable in 25 mm dia. 2 mm thick rigid PVC conduit pipe complete with complete set of accessories from outdoor unit to indoor units. The wiring to the compressor motor, condenser fans/ evaporator fan and the control wiring shall be with suitable rated copper conductors as per the directions of OEM. The work shall be carried out in all aspects as required by the Bank & OEM. Cable makes : Polycab / RR-Kabel / Havells | Rmt | 150.00 | |
| 6 | Supply and Installation of suitable size synthetic fire proof canvas connection complete as required. | nos. | 6.00 | |
| 7 | Supply and Installation of suitable size factory fabricated Sheet as per SMACNA Standard Metal Ducting out of class-VIII GSS Sheets with built-in/independent flange, sealant, neoprene gaskets, 150 mm GI metal cleats, Electro-galvanized bolts, nuts & washers, GI suspension rods, anchor grip bolts, with proper Hi-tech supports/ Hangers from Ceiling/ walls as required at site and duly insulated with acoustic open cell elastomeric nitrile insulation of 10mm thick. The rate shall include all necessary cost towards, supports, hardwares, necessary civil work, etc. The work shall be carried out in all aspects as required by the Bank. | | | |
| b | 22 G Ducting | sqm | 20.00 | |
| c | 20 G Ducting | sqm | 15.00 | |
| 8 | Supply, laying & commissioning of Acoustic Insulation of ducting with 10mm thick open cell nitrile rubber with premier adhesive layer on duct with as per standard. Complete the work in all aspects as required by the Bank. | sqm | 35.00 | |
| 9 | Thermal Insulation : S I T C of thermal insulation on the external surface of ducts using 9mm Thick aluminium faced closed cell class 0 rating nitrile rubber with premier adhesive layer on duct as per standard and joints sealed with self adhesive tape. | sqm | 15.00 | |
| 10 | Volume control Collar damper aluminium fabricated as per the site conditions between PAC and plenum and between Plenum and duct | Sqm | 4.00 | |

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|------------------------------------|---|------|--------|--------|--------|
| | | | | Rate | Amount |
| 11 | Brackets & Angle frames for Mounting Outdoor Unit: Fabrication of MS angle frame structure for mounting the outdoor units at ground floor / terrace floor. The size of the angle shall be min. 40mm x 40mm x 6mm or more as recommended by the OEM. The rate shall include all accessories, hardwares, all related civil / welding works, anti-corrosion coating, painting, etc. complete as per the requirement at site for safely mounting the outdoor unit on the walls / floor. The work shall be carried out in all aspects as required by the Bank & OEM. | kg | 300.00 | | |
| 12 | Supply air grill with collar damper: S I T C of aluminium powder coated Supply air grille with MS collar damper matching to the interior colour with the necessary fittings and arrangements. | Sqm | 2 | | |
| 13 | Return air grill: Supply & fixing of 2'x2' powder coated aluminium return air grille matching to the interior colour with necessary fittings and arrangements. The grill should be independently supported / suitably suspended with anchor fastener hook and auto clutch wire with end clamps from the ceiling. | Sqm | 3 | | |
| 14 | Part C: Dismantling old AHU Dismantle the existing old AHU along with the Chiller pipe connecting pieces and shifting the same to the suitable location in Cellar as required by Bank. | | | | |
| a | 20TR AHU - 2nd floor LW | job | 1.00 | | |
| b | 20TR AHU - 2nd floor RW | job | 1.00 | | |
| Grand Total (Excluding GST) | | | | | |