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ASPL/1177

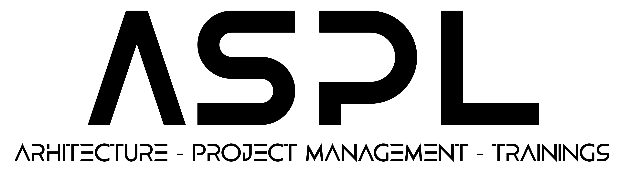
**Salaam Takaful Limited**

Clifton Block 1 | Khayaban-e-Bedil, Karachi

**8th floor Design Estimates**

**Of HVAC Works**

Version 1.0

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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Air-Conditioning Works** | | | | | |
| **No** | **Description** | **Unit** | **Qty.** | **Rate** | **Amount** |
|  | **Section - 1** |  |  |  |  |
|  | **Air-Conditioning System** |  |  |  |  |
| 1 | Installation, Testing & Commissioning of following Air Conditioning Units Complete in all respect ready to operate complete in all respect. The work should be completed with control / power wiring / E.C.C. with conduiting as required between indoor and outdoor unit. |  |  |  |  |
| i) | 1 TR Wall Mounted Type A/C unit. | Nos. | 1 |  |  |
| ii) | 1.5 TR Wall Mounted Type A/C unit. | Nos. | 1 |  |  |
| iii) | 2.0 TR Wall Mounted Type A/C unit. | Nos. | 4 |  |  |
| iv) | 2.0 TR Ceiling Mounted Cassette Type A/C unit. | Nos. | 2 |  |  |
| 2 | Supply, installation, testing & commissioning of refrigerant piping (Liquid + Gas - 1/4 +3/8) make Muller USA with expanded rubber foam Insulation protected with Grey Tape, Gas Charging if required. Control wiring with 4x2.5mm² PVC insulated copper cable in P.V.C. Conduit between internal and external units, complete in all respect. (up to 1 TR Unit) | Mtr. | 10 |  |  |
| 3 | Supply, installation, testing & commissioning of refrigerant piping (Liquid + Gas - 1/4 +1/2) make Muller USA with expanded rubber foam Insulation protected with Grey Tape, Gas Charging if required. Control wiring with 4x2.5mm² PVC insulated copper cable in P.V.C. Conduit between internal and external units, complete in all respect. (up to 1.5 / 2 TR Unit) | Mtr. | 10 |  |  |
| 4 | Supply, Installation, testing and Commissioning of Refrigerant piping (Liquid + Gas-5/8+3/8) make Muller USA with expanded rubber foam Insulation protected with Grey Tape, Gas Charging if required. Control wiring with 4x4 mm² PVC insulated copper cable in P.V.C. Conduit between internal and external units, complete in all respect. (up to 2 TR Unit) | Mtr. | 80 |  |  |
| 5 | Supply, Installation of U-PVC piping condensate drain including all cutting, fixing fitting, laying, cleaning and making good with 10 mm thick rubber foamed insulation, for drain water piping. The joints shall be properly sealed with manufacturer recommended solution and tape on circumferential joints and on longitudinal joints. Complete in all respect as per drawings and specifications. |  |  |  |  |
| 5.1 | ¾” dia | Mtr. | 50 |  |  |
| 5.2 | 1” dia | Mtr. | 100 |  |  |
| 6 | Supply & installation of angle iron frame with antirust enamel of 2 costs & final grey paint, for split A/C outdoor units including antivibration pads, to be fixed on exterior wall, as per approval of Consultant. | Nos. | 14 |  |  |
| **Sub Total of Air-Conditioning Works** | |  |  |  |  |