**Dean of engineering collage BoQ Mosul University Compliance Sheet**

**The following Technical data shall be furnished and filled by the bidders:**

**Item 01, Section Mechanical works VRF system outdoor unit**

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| **No.** | **Required specifications** | **Offered specification** |
| 1 | **VRF system outdoor unit and indoor units** |  |
| 2 | Make: Original manufacturer |  |
| 3 | Brand Name |  |
| 4 | Tonnage Range: 24 tons |  |
| **5** | Power Supply: 3PH/50HZ |  |
| 6 | Compressor: DC Inverter |  |
| **7** | Refrigerant Gas: R410A |  |
| 8 | Indoor type : ceiling cassette type 4 way |  |
| 9 | High Side Shell (HSS) Inverter DC Scroll Compressors in all outdoor units improve system efficiencies; dual inverter compressors in larger models |  |
| 10 | Vapor Injection maximizes heating capabilities through two-stage compression of refrigerant |  |
| 11 | Compressor speed range: 15Hz to 150Hz for better partial load operation |  |
| 12 | High Pressure Oil Return (HiPOR) features a separate inlet pipe from the oil separator to the compressor, returning oil directly to the compressor--mixing oil and refrigerant is reduced |  |
| 13 | Smart Oil Control  adds a sensor to the compressor for direct oil level sensing; oil recovery cycle is only initiated when level is too low, eliminates timed oil return cycles |  |
| 14 | Optimized defrost for your locale: Choose Full Unit and/or Split Coil operation single frame outdoor units |  |
| 15 | Full System and/or Split Frame Defrost added to heat pump outdoor units |  |
| 16 | No common pipe necessary in dual and triple heat pump systems allows for easier installation |  |
| 17 | Compact size footprint where space is a premium |  |
| 18 | Max ambient temp.: 52°C to -5 |  |
| 19 | Submit Detail drawing brochure catalogue: |  |
| 20 | Certification of origin |  |
| 21 | Manufacture: European or equivalent |  |
| 22 | AHRI 1230 certified |  |
| 23 | Multi compressors |  |
| 24 |  |  |

**Item 2.1, Section Mechanical works, 2 tons cassette type AC unit**

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| **No.** | **Required specifications** | **Offered specification** |
| 1 | A-C split unit: **cassette** Type |  |
| 2 | Make: Original manufacturer |  |
| 3 | Brand Name: |  |
| 4 | Tonnage Range: 2 tons |  |
| **5** | Power Supply: 1PH/50HZ |  |
| 6 | Compressor: DC Inverter |  |
| **7** | Refrigerant Gas: R410A |  |
| 8 | Cooling Capacity: 24000 BTUH |  |
| 9 | Filter Type: Micro dust protection filter washable |  |
| 10 | Starting current: as per manufactured |  |
| 11 | Running current: as per manufactured |  |
| 12 | Remote Control |  |
| 13 | Max ambient temp.: 52°C to -5 |  |
| 14 | Submit Detail drawing brochure catalogue: |  |
| 15 | Certification of origin (CE, ISO 9001 or equivalent ) |  |
| 16 | Manufacture: European or equivalent |  |

**Item 2.2, Section Mechanical works, 4 tons Vertical type AC unit**

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| **No.** | **Required specifications** | **Offered specification** |
| 1 | A-C split unit: vertical Type |  |
| 2 | Make: Original manufacturer |  |
| 3 | Brand Name: |  |
| 4 | Tonnage Range: 4 tons |  |
| **5** | Power Supply: 3PH/50HZ |  |
| 6 | Compressor: Inverter / T3 |  |
| **7** | Refrigerant Gas: R410A |  |
| 8 | Cooling Capacity: 48000 BTUH |  |
| 9 | Filter Type: Micro dust protection filter washable |  |
| 10 | Starting current: as per manufactured |  |
| 11 | Running current: as per manufactured |  |
| 12 | Remote Control: Wireless /LCD type |  |
| 13 | Max ambient temp.: 52°C to -5 |  |
| 14 | Submit Detail drawing brochure catalogue: |  |
| 15 | Certification of origin (CE, ISO 9001 or equivalent ) |  |
| 16 | Manufacture: European or equivalent |  |