



METRI ENGINEERING SERVICES W.L.L

مترى للخدمات الهندسية ذ.م.م

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| Kind Attn: Mr. Ziyad Seirafi | QREF 21/10/25-7 |
| E-Mail: seirafiziyad@gmail.com | SUBJECT: HVAC Consultancy Proposal – Two Restaurants Location: |
| DATE: 21-10-2025 | E-Mail: mes@mes.qa |

Dear Sir

Metri Engineering Services (MES Qatar) is pleased to submit our proposal to provide HVAC Consultancy Services for the two restaurant projects. MES brings over five decades of regional experience in HVAC design, engineering, and commissioning, ensuring optimal indoor comfort, energy efficiency, and compliance with local standards and ASHRAE guidelines.

1. Scope of Work

1.1 Heat Load Calculations

- Perform detailed cooling and ventilation load calculations for each restaurant area using approved software (HAP or Carrier E20).
- Evaluate envelope conditions, internal gains, lighting, equipment, and occupancy.
- Establish design indoor and outdoor parameters in accordance with ASHRAE and QCS standards.
- Determine air quantities for supply, return, fresh air, and exhaust systems.

1.2 Design Drawings

- Prepare comprehensive HVAC design drawings including:
 - Chilled Water Fan Coil Units (FCUs) layout with supply and return piping, valves, and control accessories
 - Air distribution layout showing supply, return, and fresh air ducts
 - Fresh air and exhaust fan systems layout, including sizing, routing, and air balancing
 - Ecology unit integration drawings for kitchen exhaust air treatment (including pre-filter, ESP, and carbon filter stages)
 - Equipment placement drawings showing AHU/FCU/fan/ECU locations and coordination with architecture
 - Control zoning and diffuser/grille layouts
 - Drawings will be prepared in AutoCAD format and submitted in PDF for review and approval.

1.3 Schedule of Equipment and Selection

- Prepare a detailed equipment schedule and perform equipment selection for:
 - Chilled Water Fan Coil Units (FCUs) – capacities, airflows, coil selection, and water flow rates

- Fresh Air Handling Unit / Fresh Air Fans – air quantities, external static pressure, and motor capacities
- Exhaust Fans – sizing based on exhaust air quantities and duct losses
- Ecology Unit – design and selection based on kitchen hood exhaust air volume, static pressure, and odor removal efficiency
- Other related control components and accessories as required.
- All selections will comply with ASHRAE, SMACNA, and QCDD standards.

2. Deliverables

- Heat Load and Ventilation Calculation Report (PDF)
- HVAC Design Drawings (AutoCAD + PDF)
- Equipment Selection & Schedule (Excel + PDF)
- Ecology Unit Design Data Sheet and Selection Summary

3. Duration

Total consultancy duration: 15 working days from receipt of complete architectural and kitchen layouts.

4. Consultancy Fees

| Description | Qty | Unit | Rate (QAR) | Total (QAR) |
|---|-----|----------|------------|-------------------|
| HVAC Consultancy – Restaurant #1 (Includes FCUs, Fresh Air & Exhaust Fans, Ecology Unit Design) | 1 | Lump Sum | 10,000 | 10,000 |
| HVAC Consultancy – Restaurant #2 (Includes FCUs, Fresh Air & Exhaust Fans, Ecology Unit Design) | 1 | Lump Sum | 10,000 | 10,000 |
| Total Consultancy Fees (Excl. VAT) | | | | 20,000 QAR |

5. Terms & Conditions

- Payment Terms: 50% Advance with PO, 50% Against Submission of all deliverables mentioned.
- Drawings and calculations will be based on client-provided architectural and electrical layouts.
- One round of revision is included. Additional revisions will be charged as per actual scope.
- Payment Terms: 50% upon award, 50% upon final submission.
- All works shall comply with ASHRAE, SMACNA, and QCS standards.

6. Exclusions & Clarifications

The following items are not included in this consultancy scope unless specifically stated otherwise:

1. Site supervision or inspection visits.
2. QCDD, Municipality, or KAHRAMAA submission and approval.
3. Shop drawings or as-built drawings.
5. Electrical power load calculation or cable sizing.
6. Bill of Quantities (BOQ) or cost estimation.
7. Site testing, commissioning, or balancing.
8. Control system detailed logic, BMS, or wiring schematics.
9. Acoustic or vibration analysis.
10. Kitchen hood design (only ecology unit selection is covered).
11. Review or approval of contractor's material submittals or shop drawings.

We trust this quotation meets your requirements. For clarifications or confirmation, feel free to contact us.

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