

## HVAC VERIFICATION CHECKLIST FOR ALL BUILDING TYPES EXCLUDING VILLAS & INDUSTRIAL BUILDINGS

### Project Information

Community Name as per TKS Site Plan

Plot No. (as per TKS Site Plan)

Project ID P-

GENERAL DOCUMENTS		YES	N/A	REMARKS
1	MEP Consultant License*.			
2	Consultant Accreditation Card/ Yellow- Code.			
3	Project Brief Report.			
TECHNICAL REVIEWING CHECKLIST as per Trakhees Building Regulations & Design Guidelines- MEP				
4	HVAC layout in details.			
5	Ventilation layout included the design parameters /calculations as per ASHRAE Standard and Green Building Regulation.			
6	Smoke management layout / strategic plans as per DCD.			
7	Schematic layout of building envelope HVAC.			
8	Summary of thermal load calculations and Thermal load Calculations by HAP program or equal approval (Input/output data in pdf).			
9	Glazed Elements - Fenestration performance Requirements (Window schedule).			
10	U -Value calculations (Wall sections), as per local regulations.			
11	Fresh air parameters/ Heat Recovery calculations as per ASHRAE Standard, BRDG and Green Building regulation.			
12	Chilled waters pumps (design data and performance), Heat exchangers (LMTD, Ratio, efficiency) and Cooling tower (If applicable).			
13	Noise level and sound attenuation calculations (If required).			
14	Energy consumption estimation and preservation scenarios / control as per Green Building.			

**Abbreviations:**

BRDG: Trakhees Building Regulations & Design Guidelines- MEP.

DCD : Dubai Civil Defense

D.M.: Dubai Municipality.

ASHRAE: American Society of Heating, Refrigeration and Air Conditioning Engineers.

SMACNA: Sheet Metal and Air Conditioning Contractors National Association.

**Note:**

- All Drawings and required documents in PDF format should be provided within title block and to be stamped and signed by the main consultant.
- ( \* ) Business license of the Main Consultant sufficient if it has MEP staff, otherwise MEP trade license is mandatory required.

**Declaration**

- We hereby confirm that all above technical aspects have been properly checked in compliance with Trakhees Regulations & Design Guidelines-MEP as well as all related local & International standards. Complete coordination has been insured between all submitted displays and we are fully responsible for incompliance.
- If any delay occurs due to incorrect information provided by us in the submitted checklist we hold ourselves solely responsible for the delay.
- We are liable for any legal obligations which may occur due to invalid / tampered documents being submitted along with this application.
- We the (consultant) office/firm responsible for the design and supervision of the project specified above, undertake to follow and comply with International Standards (ASHRAE, SMACNA) and Local Regulations.
- We the (consultant) office/firm hereby commit to meeting the full requirements of the TRAKHEES regulations for insulation, glazing and thermal components and all insulation used in the wall sections should be certified by DCL (Dubai Central Lab) and full compliance with the latest relevant circular by DM. And we accept that a Building Completion will not be issued until full evidence of compliance is demonstrated to TRAKHEES.

Date

Authorized Engineer Name & Signature