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BARJEEL AIR CONDITIONING SERVICES LLC

COMPANY PROFILE

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VISION STATEMENT & MISSION STATEMENT

VISION STATEMENT:

To become one of the UAE market leaders in Heating Ventilation & Air Conditioning - HVAC equipment trading, contracting & services.

MISSION STATEMENT:

Provide the UAE market with wide range of high-class HVAC equipment, through best quality of installation, after sale & maintenance services. We pledge to help our employees to excel and succeed in delivering a positive experience for the team member and the customer. Success is the result of clear, concise, positive and cooperative thinking of all team members for the common goal of excellence.

ABOUT THE COMPANY

ABOUT THE COMPANY:

BARJEEL AIR CINDITIONING SERVICES LLC started its business in the field of HVAC equipment trading & services on 2015. We are specialized & involved in the following items:

- HVAC systems trading & contracting services.
- Solar systems trading & installation.
- Pumps, valves, fitting & equipment spare parts trading.
- Water coolers fabrication & assembly.
- HVAC power savers trading & installation

BARJEEL AIR CINDITIONING SERVICES LLC was developed by three partners **Mr. KHALID MOHD HUMAID SAIF AL SUWAIDI**, (CHAIRMAN), **MOHAMMAD KALEEM** (GENERAL MANAGER) & **SYED MERAJ AHMAD** (MANAGING DIRECTOR) with a team of highly experienced staff, labor & strong suppliers networks which capable us to handle any type of project in our field of expertise & experience with high quality outcomes as expected by our clients.

COPY OF TRADE LICENSE

رخصة تجارية
Commercial License

تفاصيل الرخصة / License Details				
License No.	734952	رقم الرخصة		
Company Name	BARJEEL AIR CONDITIONING SERVICES L.L.C	اسم الشركة	بارجيل لخدمات التكييف ش.ذ.م.م	
Trade Name	BARJEEL AIR CONDITIONING SERVICES L.L.C	الاسم التجاري	بارجيل لخدمات التكييف ش.ذ.م.م	
Legal Type	Limited Liability Company(LLC)	الشكل القانوني	ذات مسؤولية محدودة	
Expiry Date	24/05/2020	تاريخ الإنتهاء	Issue Date	25/05/2015
D&B D-U-N-S ® No	0	الرقم العالمي	Main License No.	734952
Register No.	1172980	رقم السجل التجاري	DCCI No.	252897
		رقم الرخصة الام		
		عضوية الغرفة		

الاطراف / License Members				
Share / الحصص	Role / الصفة	Nationality / الجنسية	Name / الإسم	رقم الشخص / No.
	Manager / مدير	India / الهند	محمد كليم محمد عمر	567933
			MOHAMMAD KALEEM MOHAMMAD	
			UMAR	

Air-Conditioning, Ventilations & Air Filtration Systems
Installation & Maintenance

نشاط الرخصة التجارية / License Activities
تركيب انظمة التكييف والتهوية وتنقية الهواء وصيانتها

Phone No 971-4-2612334 تليفون
Fax No 971-4-2612335 فاكس
Mobile No 971-55-8888787 هاتف متحرك

Address / العنوان
P.O. Box 444450 صندوق بريد
Parcel ID 245-785 رقم القطعة
مكتب رقم 21 ملك جرائد العقارية - محيصنه 4

Remarks / الملاحظات

تم نقل محل في 17/6/2015

Print Date 17/06/2019 11:46 تاريخ الطباعة Receipt No. 13226409 رقم الإيصال

يمكنك الآن تجديد رخصتك التجارية من خلال الرسائل النصية القصيرة، أرسل رقم الرخصة إلى 6969 (دو/اتصالات) للحصول على إذن الدفع.
Now you can renew your trade license by sending a text message (SMS). Send your trade license number to 6969 (Du/ Etisalat) to receive payment

وثيقة إلكترونية معتمدة وصادرة بدون توقيع من دائرة التنمية الاقتصادية، لمراجعة صحة البيانات الواردة في الرخصة برجاء زيارة الموقع www.dubaided.gov.ae
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اقتصادية دبي
DUBAI ECONOMY



ملحق الشركاء Partners

تفاصيل الرخصة / License Details			
D&B D-U-N-S * No.	0	الرقم العالمي License No.	734952
		رقم الرخصة	

اصحاب الرخصة / License Partners			
Share / الحصص	Sr. No./مسلسل الشخص	Nationality / الجنسية	Name / الاسم
51.00000000%	254338	الامارات / United Arab Emirates	خالد محمد حميد سيف / khalid mohd humaid saif alsuwaidi السويدي
25.00000000%	567933	الهند / India	محمد كليم / MOHAMMAD KALEEM MOHAMMAD UMAR محمد عمر
24.00000000%	567934	الهند / India	سيد ميراج احمد / SYED MERAJ AHMAD

Print Date 17/06/2019 11:46 تاريخ الطباعة Receipt No. 13226409 رقم الإيصال

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شهادة شهر قيد شركة في السجل التجاري
Commercial Register

تفاصيل القيد / Register Details				
Main Lice. Nr	734952	رقم الرخصة الأم	Register No.	1172980
Company Name	بارجيل لخدمات التكييف ش.ذ.م.م			
Legal Type	BARJEEL AIR CONDITIONING SERVICES L.L.C			
Expiry Date	24/05/2020	تاريخ الإنتهاء	Reg. Date	25/05/2015
D&B D-U-N-S ® No.	0			
تفاصيل رأس المال / Capital Details				
Nominated	0			
Paid	300,000			
No. of Shares	0			
Currency	UAE Dirhams			
عنوان الرخصة / License Address				
مكتب رقم 21 ملك جرائد العقارية - محيصه 4				
عنوان السجل التجاري / Commerce Address				
مكتب رقم 21 ملك جرائد العقارية - محيصه 4				
أنشطة السجل / Register Activities				
تركيب انظمة التكييف والتهوية وتنقية الهواء وصيانتها				
Air-Conditioning, Ventilations & Air Filtration Systems Installation & Maintenance				

Print Date 17/06/2019 11:46 تاريخ الطباعة Receipt No. 13226409 رقم الإيصال

يمكنك الآن تجديد رخصتك التجارية من خلال الرسائل النصية القصيرة، أرسل رقم الرخصة إلى 6969 (دو/اتصالات) للحصول على إذن الدفع.
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غرفة دبي DUBAI CHAMBER

شهادة تسجيل العضوية Membership Certificate

License no.	734952	رقم الرخصة	734952
Membership no.	252897	رقم العضوية	252897
Registration no.	1172980	رقم السجل التجاري	1172980
Trade Name	BARJEEL AIR CONDITIONING SERVICES L.L.C	الاسم التجاري	بارجيل لخدمات التكييف ش.ذ.م.م.
Legal Status	Limited Liability Company(LLC)	الشكل القانوني	ذات مسؤولية محدودة
Activity	Air-Conditioning, Ventilations & Air Filtration Systems Installation & Maintenance	نوع النشاط	تركيب أنظمة التكييف والتهوية وتنقية الهواء وصيانتها
Member Since	25/05/2015	تاريخ الانضمام	25/05/2015
Date of Issue	25/05/2015	تاريخ الإصدار	25/05/2015
Expiry Date	24/05/2020	تاريخ الإنتهاء	24/05/2020

Remarks

This certificate shall be invalid in case of any alteration without chamber's authorization

For online verification of this Certificate, please visit our website
<http://www.dubaichamber.ae/verify>

غرفة تجارة وصناعة دبي
Dubai Chamber of Commerce & Industry

P.O. Box 1457 - Dubai, U.A.E. | Tel (Within UAE) 800 CHAMBER (800 2426237) | Tel (Outside UAE) (+971) 4 2280000
هاتف: (+971) 4 2280000 | فاكس: (+971) 4 2211646 | customer@barjeelac.com | www.barjeelac.com

الملاحظات

تعتبر هذه الشهادة لاغية في حال أي كسب أو تعديل عليها دون اعتماد ذلك من الغرفة

للتأكد من صحة بيانات الشهادة يرجى الرجوع إلى موقع الغرفة
<http://www.dubaichamber.ae/verify>

METHOD OF STATEMENT



BARJEEL AIR CONDITIONING SERVICES L.L.C.

WORK INSTRUCTIONS

For

AIR CONDITIONING

LIST OF WORK INSTRUCTIONS

Sr. No.	Title
1.	SELECTION, INSTALLATION & COMMISSIONING OF PACKAGED UNITS
2.	SELECTION, INSTALLATION & COMMISSIONING OF SPLIT A/C UNIT (INDOOR - FCU & OUTDOOR - CU).
3.	DESIGN, FABRICATION, INSULATION & INSTALLATION OF G.I. DUCTING
4.	INSTALLATION & COMMISSIONING OF EXTRACT FANS/FRESH AIR FANS
5.	GRILLE/DIFFUSER FIXING
6.	INSTALLATION OF THERMOSTAT

Title: SELECTION, INSTALLATION & COMMISSIONING OF
PACKAGED UNITS

METHOD

1) Unit Selection:

1. Units brand shall be selected based on client/consultant choice.
2. Units selection shall be done from the catalogs based on consultant thermal load calculation using the following criteria:
 - a. Setting ambient working temperature at 115°F for condensing unit.
 - b. Setting indoor condition dry bulb & wet bulb on coil temperatures at 76°F/63°F respectively.
 - c. Take the data from the catalog (total load, sensible load, air flow rate, electric power, unit's nominal capacity & unit's model number) then tabulate it in a comparison with the thermal load calculation.
3. After generating a selection sheet with all client/consultant requirements take an approval using the general submittal.
4. CAD drawing shall be generated for the units' locations with actual dimensions, using manufacturer's recommendations, consultant instruction and following the civil latest drawings. Those drawings shall be submitted for client/consultant approval using the previous mentioned submittal Form.

Note: General preferred layout of units; maintain 3m at least clearance (if possible) between any mechanical equipment on the roof from points of extract discharge from toilets, kitchens or plumbing vents. Maintain at least 1.2m (if possible) between all mechanical equipment on roof and the building walls.

Title: SELECTION, INSTALLATION & COMMISSIONING OF
PACKAGED UNITS

2) Installation:

1. Remove any dust or debris from the foundation.
2. Note: All foundation marking for the civil contractor will be done based on approved drawings - as per the instructions given by the consultant/client.
3. Check foundation level using spirit level.
4. Vibration Isolating pads or spring shall be placed under the units.
5. Lifting of the Packaged A/C unit shall be carried out with proper safety.
6. Before lifting A/C unit with the crane on to roof, ensure that the unit is balance properly to avoid any unbalancing during lifting.
7. Care shall be taken to save condenser fins from any damage during lifting/Installing on the foundation.
8. After placing Packaged A/C unit on the foundation, unit level shall be checked with a spirit level.
9. Packaged A/C unit shall be covered properly with cardboard box, polythene sheet or tarpaulin to avoid accumulation of dust or any damage during construction time.
10. Ensure that the manufacturers' recommendations are followed while placing the units on foundations (crosscheck the gap between unit and wall/distance between two units etc.)
11. All the units shall be labelled as per the approved drawing after installation is completed.
12. Ensure the following are completed before start up.
 - a. Supply and return air ducts are connected to Package unit as per approved drawing with proper flexible connections and are properly supported.
 - b. Drain piping for unit is done as per approved drawing and check for its slope visually.
 - c. Check all electrical (power and control) wiring is carried out as per drawing/manufacturer's wiring diagram & units are earthed properly.
 - d. The evaporator fan and condenser fans are freely rotating, when rotated with hand. Also for belt driven fans, check the alignment and belt tension and for proper placement of fan belts.
 - e. Check all nuts and bolts are tightened properly.

Title: SELECTION, INSTALLATION & COMMISSIONING OF
PACKAGED UNITS

3) Commissioning:

1. Commissioning shall be carried out by experienced and qualified technicians only after ensuring that all points as per (11) above are checked and unit is ready for starting.
2. Any abnormal values observed/recorded shall be immediately brought to the notice of the concerned Engineer in-charge and corrective action as required shall be taken immediately.
3. Once the unit is commissioned, the commissioning report shall be prepared & client (rep)/consultant (rep) approval shall be taken for records.

Title: SELECTION, INSTALLATION & COMMISSIONING OF SPLIT A/C UNIT (INDOOR - FCU & OUTDOOR - CU).

METHOD

- 4) Unit Selection:
 5. Units brand shall be selected based on client/consultant choice.
 6. Units selection shall be done from the catalogs based on consultant thermal load calculation using the following criteria:
 - d. Setting ambient working temperature at 115°F for condensing unit.
 - e. Setting indoor Fan Coil Unit (FCU) condition dry bulb & wet bulb on coil temperatures at 76°F/63°F respectively.
 - f. Take the data from the catalog (total load, sensible load, air flow rate, electric power, unit's nominal capacity & unit's model number) then tabulate it in a comparison with the thermal load calculation.
 7. After generating a selection sheet with all client/consultant requirements take an approval using the general submittal.
 8. CAD drawing shall be generated for the units' locations with actual dimensions, using manufacturer's recommendations, consultant instruction and following the civil latest drawings. Those drawings shall be submitted for client/consultant approval using the previous mentioned submittal Form.

Note: General preferred layout of units; maintain at least 1.2m (if possible) between all mechanical equipment on roof and the building walls. Maintain at least 300mm (if possible) clearance between the FCU (indoor) backside and the room walls for easier future filter maintenance.

Title: SELECTION, INSTALLATION & COMMISSIONING OF SPLIT A/C UNIT (INDOOR - FCU & OUTDOOR - CU).

INDOOR UNIT INSTALLATION

- 1) Mark location of supports/hangers (for hanging indoor unit) on the slab/ wall as per the approved drawing. Check that the location of holes are as per the unit requirements as per manufacturers' recommendations.
- 2) Drill 12-mm. dia. hole in the slab/wall with a hammer drill, put 10-mm dia. wedge anchor in the hole, expand it properly with a center punch, and hammer.
- 3) Fix 10mm dia. threaded rod in the wedge anchors at four corners. Fix 10mm dia. nut below the wedge anchor to act as a chuck nut.
- 4) A/C unit shall be removed from the packing inspect the unit for any damages. Lift A/C unit manually and hang with the threaded rods. Fix 10mm dia. washer and nut at four corners. Fix vibration pads or spring at four corners and level the unit. Once the unit is at level, fix chuck nuts at end of the threaded rod below the unit fixing brackets. Level of the unit shall be checked with a spirit level.
- 5) Cut short extra length of the threaded rods.
- 6) The unit shall be covered properly with a polythene sheet to avoid accumulation of dust or any damage during construction stage.
- 7) Drain Piping:
 - a. PVC drain piping with U. trap shall be carried out to nearest drain point (not more than 3meters from indoor unit), as per approved drawing.
 - b. PVC drain piping shall be checked visually for proper slope.
 - c. PVC drain piping shall be insulated with 6mm rubber insulation for preventing condensation.

Title: SELECTION, INSTALLATION & COMMISSIONING OF SPLIT A/C UNIT (INDOOR - FCU & OUTDOOR - CU).

OUTDOOR UNIT INSTALLATION

- 8) The Foundation of outdoor unit shall be cleaned of all debris and dust.
Note: All foundation marking for the civil contractor will be done based on approved drawings - as per the instructions given by the consultant/client.
 - a. The level of foundation shall be checked visually.
 - b. The outdoor unit shall be placed on foundations properly supported on rubber pads as per approved drawing.
- 9) Refrigerant Piping:
 - a. All refrigerant pipe work interconnecting outdoor and indoor AC unit shall be carried out with approved make of copper coils/tubes/pipes and shall be as per approved drawing.
 - b. Refrigerant pipes of approved makes shall be laid through pipe sleeve/shafts as per the approved drawing.
 - c. The suction line shall be insulated after pressure testing with rubber insulation of 9 mm thick or as specified and ends shall be sealed with a PVC tape. Suction lines running external to the building shall be covered with canvas cloth.
 - d. The ends of ref. tube up to 5/8 " are pinch closed and bent whereas bigger dia. pipes are covered with a plastic cap to prevent any dust or construction material from entering the pipes.
 - e. The suction and liquid lines are then clamped or taped together and according to the drawings, a GI clamp is used to hold the lines together and the clamp is placed every 2 m, where as a tape is wrapped every 500 mm apart.
 - f. The pipes are flushed with dry nitrogen to remove any carbon or foreign particles from the lines.

Flushing Technique:

After finishing the Ref. piping work the gauge manifold (which is connected to the N2 Cylinder is connected to one end of the Ref. piping, & the other end of the Ref. piping is to be closed with the hand. Once the pipes are pressurized with N2, slowly release the pressure by removing the hand. Repeat this at least four to five times to remove carbon particles from the tubes.

Title: SELECTION, INSTALLATION & COMMISSIONING OF SPLIT A/C UNIT (INDOOR - FCU & OUTDOOR - CU).

- g. A pressure test of $250 \pm 10\%$ Psi is carried out for duration of 6 - 8 hours to ensure that there are no leaks in any of the joints brazed by us.

Pressure Test Technique:

Join the ends of the suction and liquid line to make a loop. Connect the two pin valves at the other end of the pipes. Pressurize the pipes with N2 to 250 Psi. A soap solution is applied at the joints is used to check for leaks. If leaks are iced, mark them and rectify problem after removing the N2 from the system. A calibrated pressure gauge attached to valve is used to check and record the pressure.

- 10) Insulation of refrigerant pipe lines joints shall be carried out after pressure leakage test.
- 11) Commissioning of the split units shall be started only after satisfactorily clearing all points in the pre-commissioning check list.
- 12) Any kind of abnormal values observed/recorded shall be immediately brought to the notice of the concerned Engineer - in-charge and corrective action as required shall be taken immediately.
- 13) Once the unit is commissioned, the commissioning report shall be prepared & client (rep)/consultant (rep) approval shall be taken for records.

Title: DESIGN, FABRICATION, INSULATION & INSTALLATION OF G.I. DUCTING.

METHOD

All ductwork shall be fabricated from galvanized steel sheets or G.I. Sheets as specified by the client/consultant

PROCEDURE:

- 1) Design:
All ducting works shall be designed at velocity range of 700 – 900 fpm & presented by CAD drawings for approval by consultant/client.
- 2) Fabrication:
 - a) The ductwork shall be fabricated as per the approved design drawing by consultant/client.
 - b) Fabrication of G.I. sheet ductwork for low-pressure ductwork shall be as per the following schedule or approved design drawings:

Minimum sheet thickness for rectangular G.I. duct:

<i>Length of Larger Side</i>	<i>Min. Sheet Thickness</i>	
<i>MM</i>	<i>MM</i>	<i>DG</i>
<i>Up to 700</i>	<i>0.6</i>	<i>24</i>
<i>Above 700 to 1100</i>	<i>0.8</i>	<i>22</i>
<i>Above 1100 to 2250</i>	<i>1.0</i>	<i>20</i>
<i>Above 2250 to 3000</i>	<i>1.2</i>	<i>18</i>

- c) All duct measurement shall be taken from actual site by professional duct technician before starting the fabrication works.
- 3) Thermal Insulation:

Note: insulation to duct work (concealed or exposed ducts) shall be carried out as per specifications or as agreed upon with the consultant/client.

Title: DESIGN, FABRICATION, INSULATION & INSTALLATION OF
G.I. DUCTING.

A. FOR CONCEALED DUCTS:

1. Wipe the duct surface from dust with a clean cloth/brush & make sure it is clean from any oil/grease material. If any oil/grease on the duct surface, can be cleaned using suitable solvent such as methyl base solvents.
2. Use flexible closed cell rubber insulation/Thermo break with 20mm thickness, self-adhesive with reinforced aluminum foil covering layer.
3. Cut the Thermo break with the required length & size then wrap on to the duct surface without overlapping, reaches the same level as the starting edge. Trim off excess length with sharp knife until it is level with adjacent side.
4. Peel off the backing paper with care in order to stick it on the surface of the duct, make sure no air pockets formed between the duct & its insulation.
5. Seal all insulation joints with 3" wide aluminum tape/rubber tape.

B. FOR EXPOSED DUCTS:

1. Wipe the duct surface from dust with a clean cloth/brush & make sure it is clean from any oil/grease material. If any oil/grease on the duct surface, can be cleaned using suitable solvent such as methyl base solvents.
2. Use flexible closed cell rubber insulation/Thermo break with 30mm thickness, self-adhesive with reinforced aluminum foil covering layer.
3. Due to higher thickness, divide the Thermo break into four cut sections of the required length & size then stick on to the duct surface. Ensure width of sheets is adequate to cover the duct and the extra width from the adjacent sheets of insulation. Trim off excess length with sharp knife until it is level with adjacent side.
4. Peel off the backing paper with care in order to stick it on the surface of the duct, make sure no air pockets formed between the duct & its insulation.
5. Seal all insulation joints with 3" wide aluminum tape/rubber tape.
6. Apply aluminum cladding as follows:

METHOD

- i. Ducts shall be cladded with (0.9mm) aluminum sheet as per agreed upon and approved from the client/consultant.
- ii. Cut cladding sheet as per the size of the duct
- iii. Cross breaking of cladding sheet shall be done for duct sizes above 700 mm and larger size.

Title: DESIGN, FABRICATION, INSULATION & INSTALLATION OF G.I. DUCTING.

- iv. Cover the entire duct neatly with the cladding sheet.
- v. Ensure that the cladding sheet fits properly on to the duct surface and holes made on the cladding sheet are properly overlapped and rivet them.
- vi. Sealant shall be filled in all cladding joints if needed.

4) Installation of Ducting:

1. Before installation of duct, make sure there shall be duct liner of 12mm thickness (rubber or glass wool) in supply air ducts from the FCU to a maximum length of 3m.
2. Where ducting is hanging below the slab proper size hole shall be drilled in the slab for fixing wedge anchor. After drilling hole put wedge anchor and expand it with the center punch to make sure it is fixed properly. (Wedge anchor must be fixed in the solid concrete only not in the hollow block, in case of R.B. slab). Use threaded rods with angles as duct support. Once the support is ready, put insulated duct on top of it and check for level visually with a spirit level.
3. Once the ducts are in position on supports, leveled & aligned tighten all the nuts and bolts then cut any extra threaded rods. In case if ducting was joint with flanges therefore ensure that gasket is provided properly between two flanges before joining two ducts.
4. In case there are any changes at site in duct sizes/duct routing due to site requirements - therefore it will be recorded by revised drawing with submittal before handing over the project.

Title: INSTALLATION & COMMISSIONING OF EXTRACT
FANS/FRESH AIR FANS.

METHOD

- 1) The fans shall be installed as per drawings approved from client/consultant.
- 2) Remove fan from the packing and check for any damages
- 3) Install fan as follows:

WALL MOUNTED:

1. Drill holes in wall and put fisher plugs in holes.
2. Hold fan in position and fix screws in fan frame.
3. Check level of fan with spirit level and tighten all screws properly.
4. Fix louver/grille after installation of fan - as per approved drawing.

IN LINE DUCT:

1. Fix GI threaded hanger rod in the slab as per approved drawing.
2. Hold fan in position and fix the nuts with proper washers
3. Connect flexible connections of duct with jubilee clips on both sides.

ROOF MOUNTED:

1. Drill holes in the wooden frame provided on the roof for fixing the fan.
2. Place the fan mounting plate on to the wooden frame and fix it with proper screws.
3. Tighten screws after levelling of plate.
4. Mount fan on the plate as per approved drawing.

Title: INSTALLATION & COMMISSIONING OF EXTRACT
FANS/FRESH AIR FANS.

- 4) Ensure the following:
 - a. Airflow direction on fan body when installed shall match with that of approved drawing.
 - b. For ducted fans - connection of ducts including flexible ducts along with necessary support grilles shall be as per approved drawing and fan load (weight), should not be transferred on to the duct.
 - c. Levelling of fan shall be checked with a spirit level.
- 5) Check for proper voltage as per name plate details on the fan.
- 6) Kick start the fan. Check for any abnormal noise and vibration. Check for proper direction of rotation of fan.
- 7) Run the fan for few hours, Check voltage, CFM Amps. Verify the readings with approved drawing and adjust if necessary.
- 8) If fan is belt driven, check belt tension after few hours of running.
- 9) Prepare a commissioning report and take client/consultants (rep) signature for proper records.

Title: GRILL/DIFFUSER FIXING.

METHOD

- 1) Check size of the opening for fixing the grille/diffuser as indicated on the approved drawing.
- 2) Before fixing the grille/diffuser, check supply and return air ducts are fixed properly (screwed with the frame). Also for gaps, if any, fill with mastic.
- 3) Clean the openings with a clean dry cloth and remove dust before fixing the grille/diffuser.
- 4) Remove grille/diffuser from the packing and check for any damage.
- 5) Mark location of holes in the wooden frame/GI frame of false ceiling for fixing the grille/diffuser.
- 6) Drill 6 mm dia. holes with a drilling machine. Fix grille/diffuser in the position and tighten the screws. Check level of the grille/diffuser with a spirit level and tighten the screws fully.
- 7) Installation of grilles/diffuser shall be carried out as per the location and details shown in the drawing approved by client/ consultants.
- 8) While fixing continuous grilles/slot diffusers, additional care shall be taken to see that all grilles/diffusers are aligned properly. Check with a line dori for straightness.
- 9) All joints shall be thoroughly checked, sealed properly after proper alignment.
- 10) Provide protection (polyethylene sheet) if required & will be removed at the time of testing commissioning of the AC unit.
- 11) Time of the testing commissioning for Ac units a final check shall be done for the grill/diffuser alignment & cleanliness from paints.

Title: INSTALLATION OF THERMOSTAT.

METHOD

1) Selection of Location:

- a. Thermostats best located at 1.5m from finished floor level near doors & electrical switches to be at an easy accessible space of the room.
- b. Locate the thermostat where it can sense the average room temperature and see that there are no obstructions for the thermostat sensor.
- c. The thermostat shall not be located above any heat rejecting medium or cool air rejecting machines or heaters.
- d. Final design drawings, which will be approved by client/consultant, will have the proper location of the thermostats.

2) Installation:

- a. The manual of unit & thermostat shall be studied well.
- b. The signals shall be checked for matching with the unit.
- c. It shall be ensured that the load is adequate.
- d. It shall be ensured that the operating voltage is as per requirement.
- e. The thermostat shall be checked to have enough outputs for operating the No. of compressors and are of proper differentials.
- f. Study the thermostat and find out how many wires are required for the thermostat and check whether proper conduit is provided for pulling the wires.
- g. The thermostat wires shall be pulled from the unit to the space where the thermostat is to be located.
- h. The height of the thermostat shall be marked (as per approved drawing)
- i. Study the installation details of thermostat
- j. The thermostat clamp screws shall be marked as per up & down indication on the clamp.
- k. The holes shall be drilled for the thermostat clamps.
- l. The clamp shall be fixed with proper fastener and screws with a proper spirit level,
- m. The thermostat wires shall be clipped properly in the thermostat. Make sure if extra wires are used, it should be joined properly.
- n. The balance wire shall be pulled into the unit.
- o. The thermostat shall be clamped properly in the clamp.
- p. The thermostat wires shall be clipped in the unit.

- q. Always ensure that bottom of the thermostat should be in level with the nearby electrical switches. Try to keep minimum 500 mm extra wire in the unit for future changes and proper functioning.

If thermostat is in public location, instruct main contractor/client's representative to make locking arrangements f

LIST OF PROJECTS

BARJEEL PROJECTS DATA BASE									
NO.	YEAR	CLIENT	CONSULTANTS	CIVIL CONTRACTOR	MEP CONTRACTOR	PROJECT DETAILS	PLOT NO.	A/C UNITS	
								DETAIL	QTY.
1	2015	ABDULLAH & ALI ABNA MOHD SULTAN BIN TUWAHE AL SUWAIDI	FREE LINE ENGG. CONSULTANTS	GOLDEN WING CONTRACTING	AL JABER ELECTRO MECHANICAL	(G+1) VILLA @ AL BARSHA 3 RD DUBAI	375 - 1912	SPLIT DUCTED	12
								SPLIT DECORATIVE	03
2	2016	MR. VIJAY KUMAR ROOPCHANDANI	FREELINE ENGINEERING CONSULTANT	GOLDEN WING CONTRACTING LLC	AL BANNA ELECTROMECHANICAL CAL	(G+3) TYPICAL- LABOR CAMP @ JABEL ALI - DUBAI	599 -1804	SPLIT DUCTED	6
								SPLIT DECORATIVE	205
								FAHU	2
3	2016	ALI MOHD HUSSAIN ALI AL SHAMALI	SINAN ENGINEERING CONSULTANT	VISION HOUSE BUILDING CONTRACTING LLC	BARJEEL AIRCONDITIONING L.L.C.	(G+1) VILLA @ AL BARSHA SOUTH DUBAI	672 - 701	SPLIT DUCTED	9
								SPLIT DECORATIVE	2
4	2016	MOHAD HUSSAIN ALI MOHD AL SHAMALI	SINAN ENGINEERING CONSULTANT	VISION HOUSE BUILDING CONTRACTING LLC	BARJEEL AIRCONDITIONING L.L.C.	(G+1) VILLA @ AL BARSHA SOUTH DUBAI	672 - 702	SPLIT DUCTED	9
								SPLIT DECORATIVE	2

NO.	YEAR	CLIENT	CONSULTANTS	CIVIL CONTRACTOR	MEP CONTRACTOR	PROJECT DETAILS	PLOT NO.	A/C UNITS DETAIL	NO.
5	2016	AMER MOHD HUSSAIN ALI ALSHAMALI	SINAN ENGINEERING CONSULTANT	VISION HOUSE BUILDING CONTRACTING LLC	BARJEEL AIRCONDITIONING L.L.C.	(G+1) VILLA @ AL BARSHA SOUTH DUBAI	672 - 673	SPLIT DUCTED 2 SPLIT DECORATIVE	9
6	2016	ETERNITY PROPERTIES	ART CONSULTANTS	ZABEEL CONTRACTING CO. L.L.C.	AL ASKA ELECTROMECHANICAL SERVICES LLC	G+4+R @ AL MURAR - DIERA - DUBAI	117-171	SPLIT DUCTED DÉCOR. FAHU 46 1 1	
7	2016	MR. MOHAMMAD ABDULLAH MOHAMMAD NASER	ARCH LINE ENGINEERING CONSULTANT	TOTAL BUILDING CONTRACTING LLC	OWS EQUIPMENT TRADING LLC	G+1 VILLA @ OWUD AL MUTENA 2ND - DUBAI	266-2134		
8	2016	AYESHA MOHAMMAD SULTAN BIN TUWAHE AL SUWAIDI	PALACE ENGINEERING CONSULTANTS	VISION HOUSE BUILDING CONTRACTING LLC	BARJEEL AIRCONDITIONING L.L.C.	(G+1) VILLA @ AL BARSHA SOUTH 2ND DUBAI	672 - 3776	SPLIT DUCTED 2 SPLIT DECORATIVE	9
9	2016	MR. AHMAD HASSAN				MAJLIS BLOCK @ AL BARSHA THIRD			
10	2016	WAKAF OF R.A.K. MOSQUE	CLASSIC ARCHITECTURAL ENG. CONSULTANTS.	AL ASKA ELECTROMECHANICAL SERVICES LLC	MOSQUE+ IMAM HOUSE+ ABLUTION @ JULPHAR		302024001		
11	2016	MR. RASHID HAMEED SAEED	INTERNATIONAL ENG. CONSULTANTS	AL MUDUN AL MALAKIA BLD CONT	OWS EQUIPMENT TRADING LLC	3 VILLAS G+1 @ SHARJAH - AL DARARI	649,650,65 1		

NO.	YEAR	CLIENT	CONSULTANTS	CIVIL CONTRACTOR	MEP CONTRACTOR	PROJECT DETAILS	PLOT NO.	A/C UNITS DETAIL	NO.
12	2016	MOHAMMAD BIN ALMUR AL SHAIKH MUJREN	ART CONSULTA NTS	GOLDEN WING CONTRACTING LLC	AL BANNA ELECTROMECH - ANICAL	SERVICE BLOCK @ MAAMAR DUBAI	134-421	SPLIT DUCTED	2
13	2016	AL JABER	AL KHAWAJAH ENGG. CONSULTANTS	AL JABER CONTRACTING L.L.C.	AL ASKA ELECTROMECHAN ICAL SERVICES LLC	MALLS BLOCK @ AL BARSHA 2ND		SPLIT DUCTED	05
14	2017	MR. MOHAMMAD BIN RASHID AL MAKTUUM HUMANITARIAN & CHAIRTY EST	ART CONSULTANTS	M/S GOLDENWING CONTRACTING L.L.C.	BARJEEL AIRCONDITIONING L.L.C	17 NOS.WAREHOUSE@AL QUSAIS IND.FIFTH DUBAI	248-387	SPLIT DUCTED DECORATIVE	18 21
15	2017	MR. HAWA ABDULLAH MOHAMMAD ABDULLAH BASTAKI	CIRCLE ENGINEERING CONSULTANTS	ABDULLAH BIN DASMAL CONTRACTING LLC	BARJEEL AIRCONDITIONING L.L.C	(G+3+R)BUILDING@4 L MUHAISINAH 4TH - DUBAI	245-279	SPLIT DUCTED SPILT DÉCOR. FAHU	66 2 1
16	2017	MRL MOHAMMAD AHMAD ATTQ AL MUHAIRI	DESIGN CENTER ARCHITECTS AND ENGG. CONSULTANTS		BARJEEL AIRCONDITIONING L.L.C	(G+1+R)VILLA@AL QVOZ SECOND.DUBAI	355-1631	SPLIT DUCTED SPILT DÉCOR.	17 4
17	2017	MR. MOHAMMAD ROSHANALI MERALI DEW JI	GERMAN ENGINEERING CONSULTANT	M/S VISION HOUSE BUILDING CONTRACTING LLC	BARJEEL AIRCONDITIONING L.L.C	(G+4TTT) LABOUR ACCOMMODATION JABEL AL IND. DUBAI	599-2271	SPLIT DUCTED SPILT DÉCOR. FAHU	0 279 3

NO.	YEAR	CLIENT	CONSULTANTS	CIVIL CONTRACTOR	MEP CONTRACTOR	PROJECT DETAILS	PLOT NO.	A/C UNITS DETAIL	NO.
18	2017	MR. MOHAMMAD ROSHANALI MERALI DEW II	GERMAN ENGINEERING CONSULTANT	M/S VISION HOUSE BUILDING CONTRACTING LLC	BARJEEL AIRCONDITIONING L.L.C	(G+4TYP.) LABOUR ACCOMMODATION JABEL ALI IND. 1 st DUBAI	599-2267	SPLIT DUCTED FAHU	263 3
19	2017	MR. HUSSAIN A. R. GARGASH	ART CONSULTANT	M/S GOLDENWING CONTRACTING L.L.C.	BARJEEL AIRCONDITIONING L.L.C	(B+G) VILLA @ AL KHWANEEL IN DUBAI	281-947	SPLIT DUCTED SPLIT DÉCOR.	3 1
20	2017	M/S AL MANAL REAL ESTATE			BARJEEL AIRCONDITIONING L.L.C	DUBAI NATIONAL SCHOOL @ AL BARSHA DUBAI UAE		SPLIT DUCTED	8
21	2018	MR. AHMAD ESSA ABDULLA BIN MANA AL HEMEIRI	ART CONSULTANTS	M/s. SKY HOPE CONTRACTING L.L.C.	BARJEEL AIRCONDITIONING L.L.C	PRIVATE VILLA (G+1) & SERVICE BLOCK	617-3028	SPLIT DUCTED SPLIT DÉCOR. PACKAGE	9 1 2
22	2018	MR. KHALID ESSA ABDULLA MOHD. BIN MANA AL HEMEIRI	ART CONSULTANTS	M/s. SKY HOPE CONTRACTING L.L.C.	BARJEEL AIRCONDITIONING L.L.C	PRIVATE VILLA (G+1) & SERVICE BLOCK	617-3032	SPLIT DUCTED SPLIT DÉCOR. PACKAGE	9 1 2
23	2018	MR. MOHAMMED ESSA ABDULLA MOHD. BIN MANA AL HEMEIRI	ART CONSULTANTS	M/s. SKY HOPE CONTRACTING L.L.C.	BARJEEL AIRCONDITIONING L.L.C	PRIVATE VILLA (G+1) & SERVICE BLOCK	617-3033	SPLIT DUCTED SPLIT DÉCOR. PACKAGE	9 1 2
24	2018	MR. ABDULLA ESSA ABDULLA MOHD. BIN MANA AL HEMEIRI	ART CONSULTANTS	M/s. SKY HOPE CONTRACTING L.L.C.	BARJEEL AIRCONDITIONING L.L.C	PRIVATE VILLA (G+1) & SERVICE BLOCK	617-3034	SPLIT DUCTED SPLIT DÉCOR. PACKAGE	9 1 2

NO.	YEAR	CLIENT	CONSULTANTS	CIVIL CONTRACTOR	MEP CONTRACTOR	PROJECT DETAILS	PLOT NO.	A/C UNITS DETAIL	NO.
25	2018	MR. YOUSUF ESSA ABDULLA MOHD. BIN MANA AL HEMEIRI	ART CONSULTANTS	M/s. SKY HOPE CONTRACTING L.L.C.	BARJEEL AIRCONDITIONING L.L.C	PRIVATE VILLA (G+1) & SERVICE BLOCK	617-3035	SPLIT DUCTED SPLIT DÉCOR. PACKAGE DÉCOR	9 1 2
26	2018	Mr. SALIM MOHAMED HUSSEIN PUNJANI	GERMAN ENGINEERING CONSULTANTS	M/S VISION HOUSE BUILDING CONTRACTING LLC	BARJEEL AIRCONDITIONING L.L.C	(G+4TYP) LABOUR ACCOMMODATION BUILDING LABEL ALI IND.1ST	599-2265	SPLIT DÉCOR. FAHU	283 6
27	2018	M/S. MERAS ESTATES L.L.C	ICONIC ARCH. & ENG.G. CONSULTANTS	M/S VISION HOUSE BUILDING CONTRACTING LLC	BARJEEL AIRCONDITIONING L.L.C	(B+G+4TYP) LABOUR ACCOMMODATION BUILDING LABEL ALI IND.1ST	599-9229	SPLIT DÉCOR. FAHU	126 1
28	2018	M/S. ALTAYER MOTORS L.L.C.	ART CONSULTANTS	M/S GOLDENWING CONTRACTING L.L.C.	BARJEEL AIRCONDITIONING L.L.C	WAREHOUSE (G+M) RAS AL KHOR	613-1167	SPLIT DUCTED PACKAGE SPLIT DÉCOR.	10 4 5
29	2018	Mr. TUSHAR GULABSHIN MUJJI	FEDERAL ENGINEERING CONSULTANTS	M/S GOLDENWING CONTRACTING L.L.C.	BARJEEL AIRCONDITIONING L.L.C	(G+4) LABOUR ACCOMMODATION LABEL ALI IND. FIRST	599-2255	SPLIT DÉCOR. AHU FAHU	280 1 1
30	2018	M/s ISS GLOBAL FORWARDING L.L.C	ART CONSULTANT	M/s. FUJAIRAH NATIONAL CONS. CO.L.L.C.	BARJEEL AIRCONDITIONING L.L.C	EXISTING (G+M) WAREHOUSE @ DUBAI AIRPORT FREE ZONE	W-40C	PACKAGE DUCTED	5 1
31	2018	Mrs. AMINA AHMAD	ART CONSULTANT	M/s. AL TATWEER CONTRACTING	BARJEEL AIRCONDITIONING L.L.C	2 VILLAS (G+1+R) @ ALGARHOUD	2140453	DUCTED PACKAGE DÉCOR	16 4 2
32	2019	Mr. JASSIM AL RAIS & Mr. ABDUL RAHMAN WALI	ART CONSULTANT	M/s. SKY HOPE CONTRACTING L.L.C	BARJEEL AIRCONDITIONING L.L.C	BUILDING (G+M+1) @ AL BARSHA SECOND	376-4663	DUCTED DÉCOR	4 02



NO.	YEAR	CLIENT	CONSULTANTS	CIVIL CONTRACTOR	MEP CONTRACTOR	PROJECT DETAILS	PLOT NO.	A/C UNITS DETAIL	NO.
33	2019	Mr. MOHANNAD	ART CONSULTANT	M/s. GOLDENWING CONTRACTING L.L.C	BARJEEL AIRCONDITIONING L.L.C	RESIDENTIAL BUILDING (B+G+7+2R) @ AL WARSAN 4TH	IC3-C-31	DUCTED SPLIT DECOR FAHU	109 04 01
34	2019	Mr. ABDULRAHMAN MOHAMED TAHER	FUTURE ART CONSULTANT	M/s. GOLDENWING CONTRACTING L.L.C	BARJEEL AIRCONDITIONING L.L.C	PROPOSED LABOUR ACCOMMODATION BUILDING (B+G+4+R) @JABEL ALI IND.FIRST	599-6663	SPLIT DECOR SPLIT DUCTED FAHU	27 1
35	2019	M/s DUBAI CHARITY ASSOCIATION	ART CONSULTANT	M/s. SKY HOPE CONTRACTING L.L.C	BARJEEL AIRCONDITIONING L.L.C	(G+2+2R) VILLA @ HOR AL ANZ, DUBAI, UAE.	127-6046	SPLIT DUCTED	26
36	2019	Mr. ABDUL AZIZ ABDULLA HUSSAIN ABDUL KAREEM MALIK	M/s. GERMAN ENGINEERING CONSULTANTS	M/S VISION HOUSE BUILDING CONTRACTING LLC	BARJEEL AIRCONDITIONING L.L.C	(GF+5TYP+GYM) @ AL WARQA 1ST DUBAI UAE.	421-531	SPLIT DECOR SPLIT DUCTED PACKAGE	5 71 1

PROJECTS IMAGES



(G+5TYP+GYM) VILLA @ AL WARQA 1ST ON
PLOT#421-531 FOR Mr. ABDUL AZIZ.



(B+G+7+2R) RESIDENTIAL BUILDING @ AL WARSAN
4TH ON PLOT#IC3-C-31 FOR Mr. MOHANNAD.



(B+G+4TYP)LABOUR ACCO. BUILDING @ JABAL ALI
IND 1ST ON PLOT#599-6663 FOR Mr.



(G+1) VILLA @ SHARJAH FOR
Mr. RASHID HAMEED SAEED



(G+1) VILLA @ AL BARSHA 3rd FOR Mr. ABDULLAH &
ALI ABNA MOHD SULTAN BIN TUWAHE AL SUWAIDI



**(G+4+R) COMMERCIAL BUILDING @ DUBAI AL
MURAR ON PLOT # 117-171 FOR ETERNITY
PROPERTIES**



**(G+4+R) COMMERCIAL BUILDING @ DUBAI AL
MURAR ON PLOT # 117-171 FOR ETERNITY
PROPERTIES**







(G+1) VILLAS @ AL BARSHA SOUTH ON PLOT # 672-701,702,673 FOR MR ALI MOHAMMAD HUSSAIN ALI AL SHAMALI



**(G+1) VILLA FOR Mrs. AYESHA ON PLOT NO.672-3776
@ AL BARSHA SOUTH 2ND DUBAI**



MAJLIS BLOCK FOR Mr. JABER VILLA @ AL BARSHA
2nd



MAJLIS BLOCK FOR Mr. AHMAD HASSAN @ AL
BARSHA THIRD







(G+3+1R) LABOUR ACCOMODATION @ JEBEL ALI
INDUSTRIAL AREA 1st FOR Mr. VIJAY KUMAR ROOP
CHANDANI



**DUBAI ON PLOT # 266-2134 FOR MR MOHAMMAD
ABDULLAH MOHAMMAD NASSER**



**SERVICE BLOCK @ MAMZAR ON PLOT # 134- 421 FOR
Mr. MOHAMMAD BIN ALMUR AL SHAIKH**



(G+3+R) BUILDING@MUHAISINAH 4TH ON PLOT#245-
297 FOR Mr.HAWA ABDULLAH MOHAMMAD
ABDULLAH BASTAKI



(G+3+R) BUILDING@MUHAISINAH 4TH ON
PLOT#245-297 FOR Mr.HAWA ABDULLAH
MOHAMMAD ABDULLAH BASTAKI



17 NOS.WAREHOUSE @ AL QUSAIS IND. 5TH ON
PLOT#248-3877 FOR Mr. MOHAMMAD BIN RASHID AL
MAKTOUM HUMANITARIAN & CHAIRTY EST.



(G+1+R) VILLA @ AL QUOZ 2ND ON PLOT#355-1631
FOR Mr. *MOHAMMAD AHMAD ATIQ AL MEHAIRI*.





(G+4TYP.) LABOUR ACCOMMODATION @JABEL ALI IND.1ST
ON PLOT#599-2271 FOR Mr. MOHAMMAD ROSHAN ALI

MERALI DEW JI



(G+4TYP.) LABOUR ACCOMMODATION @ JABEL ALI IND.1ST
ON PLOT#599-2267 FOR Mr. MOHAMMAD ROSHAN ALI
MERALI DEW JI



(G+4TYP.) LABOUR ACCOMMODATION @ JABEL ALI IND.1ST
ON PLOT#599-9229 FOR M/s. MERAAS ESTATE L.L.C

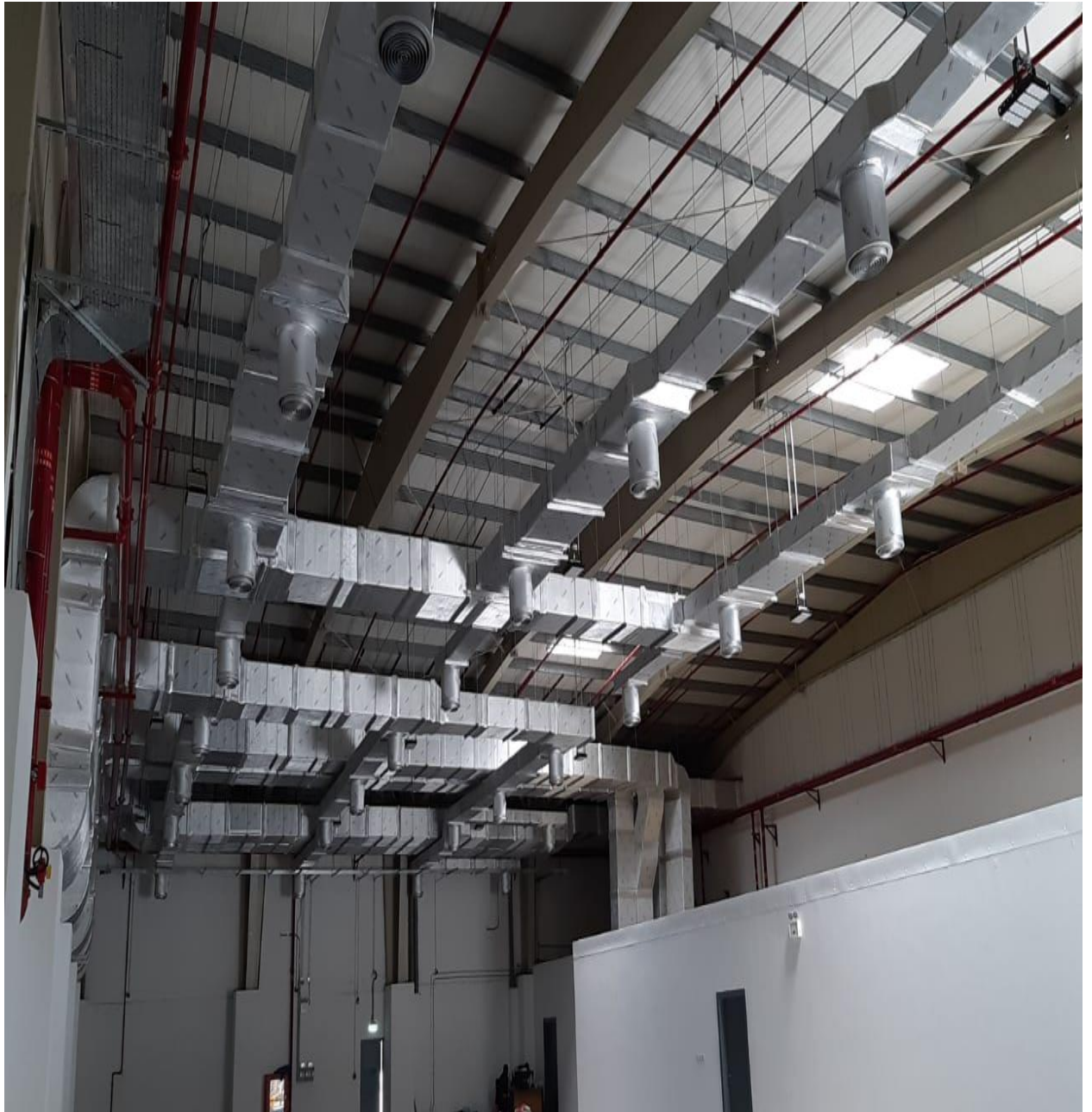


(G+4TYP.) LABOUR ACCOMMODATION @ JABEL ALI IND.1ST
ON PLOT#599-2265 FOR Mr. SALIM MOHAMMED HUSSEIN PUNJANI



WAREHOUSE (G+M+1) @ RAS AL KHOR IND.2ND ON PLOT#613-1167





WAREHOUSE (G+M) @ DUABAI AIRPORT FREEZONE ON
PLOT# W-40 C