



**BACKUP SOLAR SYSTEM NOTES:**

HYBRID SYSTEM BATTERY RACK AND INVERTERS TO BE INSTALLED UNDER THE STAIRS IN THE GROUND FLOOR, FINAL LOCATION TO BE AGREED ON WITH LCEC:

1. NOMINAL 30A OVER 12HRS.
2. NUMBER OF BATTERIES IN SERIES: 24
3. NUMBER OF BATTERIES IN PARALLEL: 2
4. BATTERY VOLTAGE ~ 2V
5. TOTAL BATTERY VOLTAGE: 48V
6. SYSTEM TO BE CHARGED FROM THE PV PANELS ONLY (ARRAY 1 & ARRAY 2).
7. SYSTEM TO FEED SEGREGATED LOAD ONLY.
8. BATTERY DIMENSIONS (LxWxH): 21.5x27.7x85.5cm;
9. BATTERY WEIGHT: 111KG MAX;
10. BATTERIES RACK SHALL BE MADE OF STRUCTURAL STEEL TUBE 40mmX40mmX3mm;
11. RACK WEIGHT ~ 170 KG;
12. RACK APPROXIMATE DIMENSION (LxWxH): 180x100x220cm.

**INDOOR AIR QUALITY SYSTEM GENERAL NOTES:**

THE SCOPE OF WORK SHALL INCLUDE:

1. INSTALLATION OF PREVIOUSLY PROCURED INDOOR AIR QUALITY SENSORS.
2. CONNECTION OF THE DEVICES TO THE NEAREST POWER PLUG, AS SHOWN ON THE DRAWINGS, CONFIGURATION AND SETUP THRU WIFI.
3. ADDING ACCESS POINT/ WIFI EXTENDER (AS OPTIONAL) TO ENSURE PROPER WIFI COVERAGE WHERE NEEDED FOR THE PROPER OPERATION OF THE SYSTEM.
4. THE CONTRACTOR SHALL PROVIDE, UNDER FULL RESPONSIBILITY, ALL COORDINATION WITH THE SUPPLIER FOR A PROPER AND GOOD OPERATION OF THE SYSTEM.
5. THE IAQ DEVICES SHALL BE INSTALLED ON WOODEN SHELVES.
6. TOTAL OF 10 SENSORS TO BE INSTALLED IN THE THREE FLOORS, IN AN EQUAL WAY AS MUCH AS POSSIBLE.
7. MONITORING OF THE AIR QUALITY PARAMETERS.
8. THE IAQ "IS" SHALL BE INSTALLED IN THE CRITICAL AREAS: LAB, ADMIN, CONFERENCE ROOM, HALL, CORRIDORS, AND CLASSROOMS.
9. IS SENSORS SHALL BE INSTALLED NEXT TO AN EXISTING POWER PLUG.
10. IS SENSORS SHALL BE CONFIGURED THRU WIFI ACCESS POINT (TO BE PROVIDED AS OPTIONAL).

**REPLACEMENT OF LIGHTS NOTES:**

THE SCOPE OF WORK SHALL INCLUDE:

1. DISMANTLE EXISTING LIGHTING LAMPS, INSTALL ALREADY PROCURED LED LAMPS.
2. REPLACEMENT OF FLUORESCENT LAMP INSTALLED ON EXISTING SURFACE MOUNTED LIGHTING FIXTURE WITH WRAP DIFFUSER COVER, BY LED 2x8 (1.2M).
3. TOTAL OF 87 LAMPS TO BE INSTALLED. LOCATIONS OF SELECTED LIGHTING FIXTURES SHOULD BE ACCORDING TO THE MOST USED CLASSES AND CORRIDORS. FINAL LOCATIONS TO BE AGREED ON WITH LCEC ON SITE.

**NOTES:**

**LEGEND:**

**REVISIONS:**

REVISION NO.	DESCRIPTION	DATE
0	ISSUED FOR EXECUTION	20-04-23

**CONSULTANT:**



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**CLIENT:**

GIZ

**PROJECT DESCRIPTION:**

ROOF PV SYSTEM  
DEIR QANOUN RAS AL AIN

**DRAWING TITLE:**

IAQ SENSORS & LIGHTING

PROJECT PHASE:	DRAWING SCALE:	DRAWING DISCIPLINE:
EXECUTION	NTS	ELECTRICAL