



BACKUP SOLAR SYSTEM NOTES:

HYBRID SYSTEM BATTERY RACK AND INVERTER TO BE INSTALLED IN LAB ROOM:

1. NOMINAL 30A OVER 6HRS.
2. NUMBER OF BATTERIES IN SERIES: 24
3. NUMBER OF BATTERIES IN PARALLEL: 1
4. BATTERY VOLTAGE ~ 2V
5. TOTAL BATTERY VOLTAGE: 48V
6. SYSTEM TO BE CHARGED FROM THE PV PANELS (ARRAY 1).
7. SYSTEM TO FEED ALL LOADS OF THE SCHOOL.
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 9 SENSORS TO BE INSTALLED IN GROUND FLOOR AND FIRST FLOOR OF THE SCHOOL, 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).

NOTES:

LEGEND:

REVISIONS:

REVISION NO.	DESCRIPTION	DATE
0	ISSUED FOR EXECUTION	03-04-23

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PROJECT DESCRIPTION:

**ROOF PV SYSTEM
KFARAAKKA – KOURA**

DRAWING TITLE:

ELEC ROOM & IAQ SENSORS

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