



**Sensors Project
phase (3)
2024**

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1. INTRODUCTION:

- 1.1. Special Communication Commission (SCC) is governmental agency, part of ministry of defense, managed by Jordan Armed Forces which provides communication services to both public (government and army) and private sector.
- 1.2. SCC is planning to purchase sensors in 16 sites, all these sites will be connected and monitored at SCC command and control.

2. GENERAL CONDITIONS:

- 2.1. Types of sensors (DC and AC current sensor, DC and AC voltage sensor, Temperature sensor, smoke sensor, door sensor, motion sensor and fuel level sensor).
- 2.2. Contractor shall install Management system at control site (005) to monitor all sensors readings.
- 2.3. Bidder shall propose an integrated solution for the project based on SCC requirements.
- 2.4. Contractor shall install the system in first 2 sites with SCC staff and supply all components of the 16 sites.
- 2.5. Contractor shall supply all accessories of system (cables, cables trunk, electricity connections, ...etc.) for all components of 16 sites.
- 2.6. All the accessories, connectors and cables shall be of high quality and in compliance with code recommendation and SCC reserves the right to reject any item not in conformance with the international standards.
- 2.7. Connectivity between (16) sites and control site (05) is SCC responsibility.
- 2.8. The Management system shall be scalable to handle any new sites in future, without any extra license or fees.
- 2.9. The site (controller or environmental monitor) shall be ready and flexible to add extra sensors at the site.
- 2.10. Bidder shall include the company profile that contains the company's qualified technical team.
- 2.11. All proposed materials must be brand new and not manufactured before 2022.
- 2.12. Bidder shall provide a technical offer and financial offer separately.
- 2.13. The Bidder shall make point-by-point compliance statement to all items of the present specification and conditions, the compliance statement is considered a vital part of bid documents.

- 2.14. The contractor shall Provide the necessary documentation (manuals, data sheets and schematic diagrams of the equipment in soft & hard copy versions in English) and accessories needed for the installation.
- 2.15. Bidder shall guarantee the functionality, durability, sustainability, and appearance (all needed accessories for good finishing) in the proposal.
- 2.16. Prices quoted shall be exempt from all governmental taxes and/or duties and include packing costs, shipping, and any other costs.
- 2.17. In case where the bidder is not fully compliant with the specifications, bidder shall state the reason and/or why should SCC reconsider his position.
- 2.18. The quantities of all system components should be clearly defined in the technical proposal (un-priced BoQ) and financial proposal (Priced BoQ).
- 2.19. The submitted proposals shall be prepared showing the project cost breakdown on an item-by-item basis rather than a simple, lump sum cost.
- 2.20. Bidder shall survey the existing system (phase 1 and 2) and propose an integrated solution (one Management system if possible) to monitor all phases (to merge the existing two phases with new offered phase),if not possible the Bidder shall provide a standalone management system.
- 2.21. The bidder shall submit Technical and Financial proposals separately (hard & soft copy).

3. TECHNICAL REQUIREMENTS:

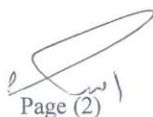
3.1 Contractor shall provide the (quantity and type) of sensors for each site as indicated in Annex (A):

3.2 Controller (environmental monitor) specifications:

- 1- Multi environmental monitoring (e.g. temperature, humidity, voltage, leakage, smoke, airflow)
- 2- Can be used as I/O controller.
- 3- Support multi analog sensor ports, 1 Ethernet port, relays, dry contact inputs.
- 4- The controller shall support the (SNMP V1/V2/V3), community read and write parameters and MIB File.
- 5- The main power supply of (controller or environmental monitor) shall be (-48Vdc) to avoid any AC (220v) interruption.

3.3 Sensor specifications:

- All sensors are locating in harsh environment conditions (higher temperature degrees at summer and lower at winter, dense dust, wind).
- The DC sensor shall be able to measure the dc voltage of the site (-48Vdc).
- The AC sensor shall be able to measure the AC voltage of the site (single phase 220v).



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- The Diesel sensor shall be able to measure the level of the Diesel tank (500-2000 Lts).
- The AC sensor shall be able to measure the AC generator which is a 3phase 230v, 50Hz, 11 KVA.
- The DC and AC cable size used in the SCC sites:
 - a. DC cables size are 16, 25, 35, 50 mm²(upon, needed).
 - b. AC cables size are 4x10, 2.5x3 mm²(upon, needed).
- The sensors Measured range:
 - a. AC Current Transducer Measured current (0-100) A.
 - b. AC Voltage Transducer Measured voltage range (0-246) V.
 - c. DC Current Transducer Measured current (0-100) A.
 - d. DC Voltage Transducer measured voltage 0-75 VDC.
 - e. Motion Transducer IR detection angle 100°, IR detection distance (0-10) meters.
 - f. Temperature Transducer (-10° C TO 55° C), accuracy ± 0.5 °C at room temperature.

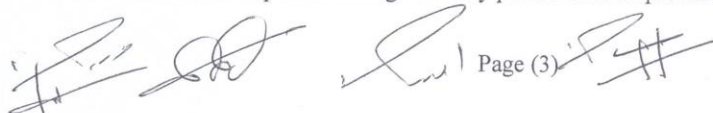
3.4 Spare parts:

- Contractor shall provide spare parts (about 10% from quantities) as indicated below:

Diesel	controller (Remote Monitoring)	AC VOLTAGE	AC Current	DC Current	DC 12V	DC 48V	Temp	Motion	Smoke	Door	Sensor name
2	2	3	5	2	2	2	2	2	2	2	المجموع

4. WARRANTY

- 4.1. Warranty period shall be at least 24 months starts from SCC workshop validate certification as a manufacturing warranty and during the warranty period, defective units or modules shall immediately and free of charge be replaced by the bidder within 30 days from notification date.
- 4.2. Warranty shall cover all equipment including software.
- 4.3. All software updates during warranty period shall be provided to SCC free of charge.


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4.4. The faulty unit or module will be return back shipping to manufacturer by the bidder without any charge on SCC.

5. Shipment, delivery:

- 5.1. Delivery period of the equipment shall be during 90 days from awarding notification.
- 5.2 Delivery of equipment shall be based on CPT QAIA/Jordan or CIF AQABA seaport.
- 5.3. Delivery of all components shall be to SCC warehouse.
- 5.4. SCC shall be responsible for custom clearance and any other expenses shall be under supplier's responsibility.
- 5.5. Partial shipment is allowed.



Annex A

DC/AC Voltage	AC Circuit	DC Circuit	DC IDV	DC 48V	Temp	Motion	Smoke	Door	Site ID	Site Name	#
1	1-AC PANNEL 1-O/P GEN	1-DC LOAD 1-DC BATTERY	1	1-DC BUS 1-DC LOAD	1	1	1	1	240	المصبة (off grid)	١
0	1-3PHASE MAIN	1-CHARGER	0	1-CHARGER	1	1	1	1	137	لواء عاليه	٢
1	1-3PHASE MAIN 1-O/P GEN	1-CHARGER	1	1-CHARGER	1	1	1	1	241	عقربا	٣
1	1-AC PANNEL 1-O/P GEN	1-DC LOAD 1-DC BATTERY	1	1-DC BUS 1-DC LOAD	1	1	1	1	146	تل الوشاش (off grid)	٤
0	1-3PHASE MAIN	1-CHARGER	0	1-CHARGER	1	1	1	1	115	اليوب	٥
1	1-3PHASE MAIN 1-O/P GEN	1-CHARGER	1	1-CHARGER	1	1	1	1	033	الازرق	٦
0	1-3PHASE MAIN	1-CHARGER	0	1-CHARGER	1	1	1	1	031	الزرقاء	٧
1	1-3PHASE MAIN 1-O/P GEN 1-O/P INV	1-CHARGER	1	1-CHARGER	1	1	1	1	89	فيفا	٨
1	1-AC PANNEL 1-O/P GEN	1-DC LOAD 1-DC BATTERY	1	1-DC BUS 1-DC LOAD	1	1	1	1	034	جبل الاشقف (off grid)	٩
1	1-AC PANNEL 1-O/P GEN	1-DC LOAD 1-DC BATTERY	1	1-DC BUS 1-DC LOAD	1	1	1	1	075	الشعلان (off grid)	١٠
1	1-3PHASE MAIN 1-O/P GEN	1-CHARGER	1	1-CHARGER	1	1	1	1	076	طربيل	١١
1	1-3PHASE MAIN 1-O/P GEN	1-CHARGER	1	1-CHARGER	1	1	1	1	055	العري	١٢
1	1-3PHASE MAIN 1-O/P GEN	1-CHARGER	1	1-CHARGER	1	1	1	1	035	الرويشد	١٣
0	1-3PHASE MAIN	1-CHARGER	0	1-CHARGER	1	1	1	1	141	المعتش/النجر الميت	١٤
1	1-3PHASE MAIN 1-O/P GEN 1-O/P INV	1-CHARGER	1	1-CHARGER	1	1	1	1	087	المصبة (on grid)	١٥
1	1-3PHASE MAIN 1-O/P GEN 1-O/P INV	1-CHARGER	1	1-CHARGER	1	1	1	1	088	السان (on grid)	١٦
12	70	20	12	20	16	16	16	16		المجموع	