

## Annex A - The Technical Specifications / The Bill of Quantities (BoQs)

Request for Quotation: No. RFQ/HCR/SYR/24/23

### Provision and Installation of Interior Backup Lighting System in Three Buildings at Ibn Khaldoun Psychiatric Hospital in Aleppo

#### The Minimum technical specifications for required alternative lighting system

#	Item	Specifications	Notes	Comments	Quantity	Unit
1	Tubular battery	12 V, 200 Ah, not less than 800 cycles at 70% discharge (or equivalent), newly produced not before than 6 months. 12 months warranty at least	Brand new battery	Higher than 200 Ah is accepted	9	piece
2	DC Charger	Battery charger, fully compatible with batteries specs (Voltage, Current, and capacity of the batteries). Auto stop when battery is fully charged	Well known brand	One charger for each battery. When installed, the charging should be set for best battery lifetime durability, i.e. 10% to 12% of battery capacity	9	piece
3	1/2 meter LED strip	High quality LED strip, 12V, white color, with frosted cover, and easy-to-fix on wall aluminium chassis. Two color wires for electric connection (positive & negative)	High-quality, low heat emission, and long lifespan		256	piece
4	1/4 meter LED strip	High quality LED strip, 12V, white color, with frosted cover, and easy-to-fix on wall aluminium chassis. Two color wires for electric connection (positive & negative)	High-quality, low heat emission, and long lifespan		61	piece
5	DC Circuit Breaker	40 A, dual breaker, DC	High-quality, well known brand, and long lifespan	To control the output of battery On/Off	9	piece
6	Relay 50 A	Electromagnetic On/Off switch relay.	High-quality, well known brand, and long lifespan	To switch off the battery DC output when electricity source is on	9	piece
7	Metal box equipped with a lock	The size should be suitable for the battery dimensions. It should be a wall-mounted metal box with mesh for proper ventilation	The box should have an anti-corrosion coating	To protect the battery from unauthorized access	9	piece
8	Deep discharge protection circuit	Prevent deep discharge of the battery	High-quality, and long lifespan	Preferable: equipped with battery charge level	9	piece
9	On/Off Switches	Electric switches for turning the LED strips on and off	High-quality, and long lifespan		85	piece
10	Copper wires	Pure copper, flexible, 2x1mm, stranded with 32 strands of 0.2mm each, compliant with Syrian National Standard 638			1500	meter

END OF ANNEX A