

## Annex A – Technical Specifications

RFQ/HCR/SYR/2023/83

For the Supply, Delivery and Installation of 80 KVA Generator for UNHCR Aleppo Sub Office, Syria

The following shows the minimum required specifications:

Item Description	Item's Technical Details/Specifications	Estimated Quantity
<b>Generator 80KVA</b>	Brand-new Electrical generator; capacity (Prime): <b>80 KVA</b> ; Engine (diesel, Key start / auto start, cooling type: water cooled, speed: 1500 rpm), Alternator (3 phase, 380 V, 50 Hz, 4 poles, IP: 23, power factor: 0.8, windings: 100% copper), control panel (automatic engine starting & stopping, automatic shutdown on fault condition, alarm channels: Under/Over speed, Charge alternator failure, Emergency stop, Low oil pressure, High engine temperature, Fail to start, Loss of speed sensing signal, Metering: Volts, Amps, Frequency Hz, Engine Speed RPM, Engine Oil Pressure, Engine Temperature, Plant Battery Volts, Engine Hours Run. Industrial exhaust silencer. Anti-vibration pads. All filters are replaceable.	1
Weather and sound-proof canopy	Required: manufactured with a steel outer skin, and is lined with fireproof, acoustic material, min. 75db / 3m, locking doors.	
Automatic changeover/ transfer switch (ATS)	Required: Capacity: according to the capacity of the generator, Type of operation: Auto. & Manual, 4 poles, Components: Relays, Contactors, Auxiliaries, Timers, Reader, Phase failure, Lamps, Selectors, Emergency stop.	
Transportation to the installation site	Required. Transportation to the assigned location is Hanano Bakery located in Hanano neighborhood - Aleppo city, Syria, as mentioned in tender cover letter and Financial Offer Form.	
Installation service	Required, including all accessories (turnkey operation).	
Cable	Required, suitable for the generator capacity and the required length, (cables length according to the needs). Roughly generator installation will require a cable from 10 to 30 meters hence its price in Annex C – Financial Offer Form must be included in the Unit Price of respective capacity of Generator.	
Testing on site	Required	
Spare parts kit for 2000 hrs. of operation	2 air filters, 10 fuel filters, 10 oil filters	
Warranty	1 year or 5000 hours, whichever comes first	

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The following should be included in the technical offer:

- Operation & Maintenance manual, Engine data, Alternator data, Circuit wiring diagrams and Commissioning / Fault Finding instruction leaflets are accompanied with the Generator are required in English and Arabic.
- All cables from the generator to the load or ATS should be high-quality NYY with all accessories (lugs, glands, etc.).
- Origin certificates are required for engine, alternator, control panel and cable.
- Test Certificates will be required from the bidder who will be awarded the contract, the test certificates should be regular /inspection company/, (engine, alternator at least) for all items will be requested by UNHCR.
- Technical datasheet / catalogue to be submitted for each proposed generator capacity.
- Delivery and installation date: last week of December 2023.