•		to the		٠.
-	No.	Description/Specifications/Part No. of Scientific/Technical/Administrative Stores	Qty. Required	
**	01	1000 KVA, 400 V, 50 Hz Station Blackout Diesel Generator with complete accessories Country of Origin: USA, UK or EU only. Make: Engine model: QST 30G4 or upgraded version MAKE: Cummins or edivatent. Turbo Charged Water cooled with water preheating system. Alternator: Newage ,Stamford or EU origin Specification: as per attached specs sheet Complete with:  All Technical Manuals  O2 years operational spares inclusive of fuel, air & lube oil filters, fuel injectors and sealing sets and 01 set each Engine control Modules etc  Test bench inspection & all load / no load/ Over frequency/Under frequency testing by	01 Set	
		<u>02</u> buyer's engineers at OEM Factory.		1

Detail Specification

Annex-B

## 1000 KVA STATION BLACKOUT DIESEL GENERATOR SPECFICATIONS

**Engine:** 

Engine type: 4 - stroke turbo charged diesel engine - open type having

Rated Speed: 1500 rpm **Engine Cooling System:** 

• Water Cooled having built-in radiator, Fan with guards

Coolant drain line with valve

• Water preheating system for low ambient temperatures in winter season

Engine Fuel Consumption: less than 210 L/H at 100% load Engine Lube oil system:

Oil level indicator

Oil drain line with valves

Speed Governor Type: Electronic with actuator and MPU

Engine Controller: DeepSea 7320 or latest which provides the following

Volts: L1-L2, L2-L3, L3-L1, L1-N, L2-N, L3-N. AMP: L1, L2, L3. Hz, KW KWhr, KVA, PF, KVAr

Gauges: Water Temp, RPM, Battery charging, Volts, Battery volts, Run Hour counter

Engine Protection: High water temp, Low lube oil pressure, low coolant level, fail

to start, over crank.

Coupling: Closed direct coupling with flexible disc

## Alternator:

4-pole Brushless, rotating field self excited with

Genset Power rating: 1000 KVA

Rated Voltage: 400 V, 3 Phases 4-Wires 1500 rpm

Frequency: 50 Hz Power Factor: 0.8

Excitor type: Brushless self excited type Start up mode: Digital auto / manual

**Starting:** 24 V DC starting motor with lead acid type batteries Temp Detectors: 3 sets for winding, 2 sets for bearings temps

Insulation Class: H, Temp rise 125°C Tropicalised

Elect. Protection: Over current (OL), OV / UV, UF / OF, Phase sequence,

Reversed KW/KVAr

Control Push Buttons: Run/start/stop, alarm mute PB, alarm reset PB, Emergency

stop PB