

Schedule Of The Required Specifications- PART-A

1- Genset Specifications [General]

Yemen Mobile Specifications		Offer Spesification	Notes
General Specifications	Model:		
	Manufacturer		
	Country of origin		
	Date of Manufacturing		
	Prime Power (PRP) at 1500 rpm: 10kVA		
	Rated at site conditions: (2200 A.S.L& 30 C) 10kVA		
	Voltage 400/230V AC		
	3ph - 4 Wires , 0.8 PF, 50HZ		
Site Conditions	Altitude :up to 2200m A.S.L		
	Ambient Temp.: 30C		
	Humidity : up to 90%		
Other	Dimension with canopy : L*W*H (Cm)		
	Weight with canopy (Kg)		
	dB(A) Value: 70 dB @ 1 meters		

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2- Engine Specifications

Yemen Mobile Specifications				Offer Specification		Notes	
Basic /Initial Specifications	Model						
	Manufacturer						
	Country of origin						
	Standard						
	Date of Manufacturing						
	Prime Power (PRP) at rated speed kW elec.						
	Rated at site conditions:(2200 A.S.L& 30 C)						
	Number of stroke:						
	Number of cylinder:						
	In-line arrangement						
	Rotation: CCW						
Aspiration Mode :							
Fuel System			Injection Pump				
			Fuel lift pump				
			Replaceable filter				
			Separate Preliminary Filter				
			Electric Fuel Solenoid (Energize)				
			Fuel Consumption (Lt/hr)	At 100% Load			
			At 75% Load				
			At 50% Load				
Cooling System.			Water cooled with fan and radiator				
Injection System			Type				
Governing System			Type :Mechanical				
			Speed drop & steady state <4%				
Starting System			Type: Electric(starter motor)				
			Battery Voltage 12VDC ; Ah				
			Starter Motor:	Model:			
				kW&A:			
			Manufacturer				

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Engine Specifications

Yemen Mobile Specifications		Offer Spesification	Notes
Exhaust System	High standard: stainless steel		
	Volume Exhaust gas flow (m3/h)		
Dynamo charger	Type:		
	A/DC; V/DC:		
	Manufacturer:		
Engin Temp. sensor	Type:VDO or Equivalent		
	Manufacturer:		
Oil Pressure Sensor	Type:VDO or Equivalent		
	Manufacturer:		
Air filter	Dry type		
Engine (Protection)	High Temp. protection (A+ SD)		
	Low oil press. Protect (A+ SD)		
	Low water level (A+ SD)		
	Coolant Temp. protect (SD)		

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3- Alternator Specifications

Yemen Mobile Specifications		Offer Specification	Notes
Basic /Initial Specifications	Model		
	Manfuterer		
	Country of origin		
	Date of Manufacturing		
	Standard		
	Rated kVA at 0.8 PF (kVA)		
	Rated at site conditions: (2200 A.S.L& 30C)		
	3Ph – 4 Wires+PE		
	Y –connected 400/230V AC		
	Self-regulated		
	Insulation Class: H		
	Enclosure Level IP:		
	Overload Ch-x :300%Pn for 10sec.110%Pn for 1hr/12hr		
	Efficiency % at 0.8 PF	At 100% Load At 75% Load At 50% Load	
	Bearing		
Excitation System.	Exciter Type :Brushless		
	With PMG/self excited		
Automatic voltage regulator (AVR)	Model		
	Type : Electronic		
	Regulation :(<±1%)		
	Range of output voltage (+5%) for PF(0.8-1)		

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4- Generator Control Panel Specifications

Yemen Mobile Specifications			Offer Spesification	Notes
Panel and Card Description	Panel	Model		
		Manfuturer		
	Card	Model		
		Manfuturer		
		Type: Electronic		
	Country of origin	Country of origin		
Dimension [L×H×W]cm				
Panel Keys Card	Operation Modes Selection	Auto (Mode)		
		Manual (Mode)		
		Test (Mode)		
		Off(Mode)		
Digital Instrumentations (measuring & display)	Gen 3Ph voltage (VL-N)			
	Gen 3 Line voltage (VL-L)			
	Gens 3Ph current (IL)			
	Gen Frequency (Hz)			
	Gen Run hours (counter)			
	Battery Voltage VDC			
	Battery DC Current A			
	Oil Pressure gauge (Kpa)			
	Engine Temp. gauge ()			
	kVA, kW/phase and total, kWh and Power factor.			
	Number Of Start Attempts			

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Generator Control Panel Specifications

Yemen Mobile Specifications		Offer Spesification	Notes
Panel Led Indicators & alarms Lights	Gen Normal Running (LED)		
	Fail to start (Led+ Alarm+SD)		
	High engine Temp. (A+ SD)		
	Low oil pressure (A+SD)		
	Battery charge Fail (LED)		
	Over - Speed (A+Shutdown)		
	Under - Speed (A+Shutdown)		
	Overload (A+Shutdown)		
	Belt fail(rupture) (Shutdown)		
	Frequency fail		
	Dynamo charge fail		
	Gen output voltage missing /failure		
	Weak battery (A)		
	Fail to crank (SD)		
	Overcrank (SD)		
	Emergency Stop (SD)		
	Over Current (A+SD)		
	Low water level. (W)		
	Genset fail		
Alarm Retransm.	Genset Run (free Contact)		
	Genset Fail (free Contact)		
Protective Devices & functions	Gen-set output circuit breaker 4 poles (MCB), Isc=10kA		
	4pole ,surge protection device kA		
	Suitable MCBs to protect all (DC/AC)circuits		
	U/O voltage protection (A+SD)		
	Phase sequence/missing protection		

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PART-B Automatic Transfer Switch [ATS] Specifications

Yemen Mobile Specifications		Offer Specification	Notes
Panel Description	Model		
	Manfuterer		
	Country of origin		
	Enclosure (IP)		
	Standard		
	Dimension [L×H×W]cm		
Digital Instrumentations and Major Components	Programmable Controller	Model	
		Manfuterer	
		Type: Electronic	
		Input voltage	
		Country of origin	
		Interfac Port	
		Oprating Voltage 12VDC	
	Control Paralleling Modes (Soft Pressing Keys)	Auto (Mode)	
		TEST (Mode)	
		Manual (Mode)	
		Off (Mode)	
	MCBs to protect ATS comp.		
	Overload protection (MCB - 4pole-25A)		
	Two contactors, 4pole, 25A rated, mech&elect interlok		
	Load terminals		
	Power terminals		
	Control&alarm terminals		
	Free contact terminals		

Schedule Of The Required Specifications- PART-A

Automatic Transfer Switch [ATS] Specifications

Yemen Mobile Specifications		Offer Spesification	Notes
Digital (measuring & display)	3 Lines voltage (VL-L)		
	3 Lines current (IL)		
	Frequency Meter (Hz)		
Panel Led Indicators & alarms Lights	Source_1, Source_2 Available (Yellow LEDS)		
	Source_1, Source_2 On load (Green LEDS)		
	Source_1, Source_2 Fail (Red LEDS)		
Protection Relays for Mains	U/O voltage protect.		
	Phase sequence		
	Phase missing		
	U/O frequency protect.		
	Over & short circuit current		
Automatic Battery Charger	Type		
	Model		
	Voltage :12VDC		
	Charge current (A)		