

Annexure A

GENERATOR SPECIFICATION

1 × 30 kVA mobile silent running diesel generator unit
1 × 100 m heavy-duty power cable complete with plugs.
1 × Earthing kit.
1 x User Training

Generator

30 kVA prime-rated diesel generator.
230/400 V, 50 Hz, Three-phase plus Neutral output.
Power factor: 0.8 minimum
Capable of supplying both three-phase and single-phase loads simultaneously
Frequency-50HZ
AV-controlled alternator with stable voltage regulation.

Engine

Electric start with maintenance-free battery.
Water cooled
Emergency stop
Low fuel consumption
Low noise operation

Control panel

Emergency stop
Deep Sea controller 7320

System performance

The supplied generator shall:
Start within manufacturer's specified time.
Supply stable voltage within $\pm 5\%$.
Maintain frequency within $\pm 2\%$.
Operate continuously for at least 8 hours at 75% load.
Accept step loading without excessive voltage dip.
Operate under ambient temperatures between -10°C and $+45^{\circ}\text{C}$.
Operate in outdoor conditions.
Produce acceptable noise levels in accordance with applicable standards

Trailer

New heavy-duty galvanized or painted roadworthy trailer.
Double axle with appropriate load rating.
Tow hitch compatible with standard 50 mm tow ball.
Heavy duty jockey wheel and stabilizer legs.
Spare wheel.
Road-legal lighting and reflectors.
Electrical Distribution
Ready-to-plug output connection.
Cable reel or suitable cable storage arrangement.
100 m heavy-duty outdoor-rated power cable (minimum 5-core, correctly sized for full load).
Industrial plug and socket assemblies compatible with existing site infrastructure.
Corrosion resistant finish
Parking brake
Mudguards
Wheel chocks

Earthing

The supplier shall include:

Earth spike

Earth cable

Earthing clamp and Earthing accessories

Power Cable

The supplier shall supply mounted to trailer

100 metre Heavy-duty flexible power cable.

Suitable for the full generator output current.

UV resistant

Oil resistant

Outdoor rated

Suitable for repeated winding and unwinding

Fitted with 400V industrial socket outlet for ease of connection

Standards Compliance

Equipment shall comply with the latest editions of, where applicable:

SANS 10142

SANS 347

SANS 62040 (where applicable)

IEC 60034

IEC 60309

IEC 60204

ISO 8528

ISO 9001

OEM standards

Operating Request

Operating manual

User Training

Warranty letter for 24 Months

Spare parts availability

Condition

The Unit must be brand new