

REQUEST FOR BID

CIDB

Annexure C3.2

SCOPE OF WORK

Important to note – the successful supplier must submit a safety file and attend induction before the work commences

DESCRITION OF THE WORKS

- 1. Supply and deliver new generator to RW (Zoekfontein) Control Works, as per the Specification below
- 2. Decommission the existing generator and remove.
- 3. Prepare site for the new generator to be installed.
- 4. Install new generator and reroute the existing cables.
- 5. Test and commission generator.
- 6. Supply all maintenance documents including OEM training manual.
- 7. Transport the old generator to RW Zuikerbosch site.

Note: Zoekfontein is approximately 23km from Zuikerbosch and is a gravel road.

You will need to make provision in your quote for a truck mounted crane for the on/off loading of the generator.

FEATURES & BENEFITS

- 220kVA standby power at 230/400v @ 50Hz 1500rpm
- High-quality and reliable six-cylinder 7.15l turbocharged diesel engine
- Ideal for home and business applications
- · Silent canopy which can stand outside with lockable doors
- Automatic changeover (ATS), maintenance free batteries and trickle charger included
- H-specification insulation, brushless alternator with AVR provides stable output
- High-temperature and oil pressure sensor to protect against engine damage
- Easy to use digital controller with auto/manual start options
- All sets undergo a comprehensive testing/pre-delivery inspection prior to delivery
- Peace of mind of earlier of one year/1000 hour warranty



Engine		Alternator	
Engine make	Volvo	Alternator make	StromerPower
Engine model	TAD733GE	Standby power output	220kVA
Displacement	7.15l	Prime power output	200kVA
Cylinder bore/Stroke	108mm x 130mm	Insulation class	Class-H with circuit breaker protection
Fuel system	In-line fuel injection pump	Type	Brushless Three phase/four wire
Governor	Electrical	Phase and connection	
Cylinders	Six cylinders water cooled	AVR	Included
Engine output power (1500rpm)	177kW	AVR model	5X460 ± 1%
Turbocharged/normally aspirated	Turbocharged	Voltage regulation	
Cycle	Four stroke	iour stroke Voltage	
Combustion system	Direct injection	Rated frequency	50Hz
Compression ratio	18.1:1	Voltage regulate change	≤ ±10% UN
Fuel tank capacity	670l	Phase change rate	± 1%
Fuel consumption 75% Fuel consumption 50% Fuel consumption 25%	33,38 l/h 22,86 l/h 12,01 l/h	Protection class Stator	IP23 standard/screen protected/drip-proof 2/3 pitch
Oil type	CD-15W-40	Rotor	Single bearing
Engine oil capacity	341	Excitation	Self-exciting
Cooling method	Water-cooled radiator/fan	- Regulation	Self-regulating
Coolant capacity (including radiator)	37.1l		
Starter	24v DC charge alternator	General Structure type	Silent weather resistant enclosure
Engine speed	1500rpm	Dimensions	3400mm x 1400mm
Filters	Replaceable fuel filter/oil filter/dry element air filter	Length x Width x Height Dry weight	x 2150mm 3000kg
Battery	Maintenance-free battery including rack and cables	ATS unit included	Included
Silencer	Exhaust silencer	Four-way protection system included	Included

Annexure 4

SITE INFORMATION

Non Compulsory Site Briefing 30.05.2023 @ 09:00

We will meet at Rand Water Zuikerbosch, Risk Control Parking Area -

Vischgat Road, Three Rivers East, Vereeniging

S26 41 520 E28 00 061

From Zuikerbosch we will be traveling to Zoekfontein. Please wear safety shoes as we will be entering the plant. You will not be allowed to enter the plant without safety shoes.