

**SCHEDULE OF REQUIREMENTS
TRANSNET NATIONAL PORTS AUTHORITY**

A DIVISION OF TRANSNET LTD.

RFQ'S FOR THE SUPPLY, DELIVERY AND INSTALLATION OF DIESEL ENGINES & ALTERNATORS, FITTED ON DUPLEX BEDPLATES.

1	CAPE INFANTA LIGHTHOUSE	
	Location: Latitude 34° 28.3' S Longitude 20° 50.8' E	
1.1	1	Diesel Engines, oil-cooled, 2 cylinders, with accessories, as in accordance with Specification No. SOW-WR-180.
1.2 (a)	1	Alternator, <u>15 KVA, single phase 230 Volt ac</u> 50 Hz as per Specification No. SOW-WR-180.
1.2 (b)	2	Set of instruction manuals, software and drawings as in accordance with Specification No. SOW-WR-180. clause 1.7.
1.3	1	Mounting frame shall be in accordance with Specification No. SOW-WR-180. clause 5.
1.4	1	Deep Sea Control PLC panel (Tenderers to propose a suitable module) to be equipped and mounted separately from the DA Set. The following monitors to be equipment in PLC. AC output, low oil pressure, fails to start, temperature alarm and mains failure. Battery charger BC7033A to be fitted in PLC Central control panel to charge DA Set battery.
1.5	1	Fuel tank to be manufactured and mounted on frame as specified in SOW-WR-180 Capacity 300 litres.
1.6	1	Surge arrestor to be equipped on mains in panel to protect panel against lightning and overload.

NOTE

(a) Mounting and Drive

- (i) Each engine & alternator set must be mounted on a bedplate.
- (ii) Each bedplate must be adequately braced to prevent distortion when bolted down onto the foundation and must have machined surfaces where the engine and alternator mountings bolt down.
- (iii) At least six foundation bolt holes must be provided in the bedplate.
- (iv) Each bedplate and coupling guard must be galvanized in accordance with SANS 763 heavy duty hot dip galvanizing, to a thickness of at least 85mm.
- (v) The galvanizing shall be done after all the cutting, welding and drilling had taken place.
- (vi) The wiring and fuel lines on the engine / alternator assembly must be protected against damage due to vibration and impregnation by lubricating and fuel oil. The wiring must be terminated on a numbered terminal strip in a suitable electrical enclosure in accordance with SANS 10142 with provision for making off the external cabling.



05/06/2024

Technical Services Manager Date



05/06/2024

Operational Supervisor Date



05/06/2024

Act. Regional Manager Date

To accompany SOW-WR-180