

# Port Mathurin Power Station Rodrigues



Built for



**Central Electricity Board**

**Mauritius**

by

**Burmeister & Wain Scandinavian Contractor A/S**

**BWSC** 

## Power Plant System

Port Mathurin Power Station in the island Rodrigues, Mauritius, is designed as a base load diesel plant. The turn-key project is designed for 3 x 1 MW diesel gen-sets where the construction and installation work for the first diesel gen-set was carried out by BWSC in 13 months and in operation December 1995. The second diesel gen-set was installed in 10 months and in operation February 1997. The diesel engines operate on heavy fuel oil (H.F.O.) treated by separators where the oil is heated by electrical heaters. The diesel engines are cooled by radiator coolers.



### Diesel Engine

Manufacture: MAN B&W Diesel Holeby  
Type: 5 L 28/32 H  
Output: 1,053 kW  
Speed: 750 r.p.m.

### Generator

Manufacture: A. van Kaick  
Type: DSG 99 K1-8  
Rating: 1,316 kVA  
Voltage: 400 V  
Frequency: 50 Hz

## Auxiliary Systems

- Fuel oil separator
- Lub. oil separator
- Fire fighting system
- H.F.O. storage tanks and a 340 m pipe line from the harbour to the plant
- Service/buffer tanks for lub. and fuel oil
- Compressed air system

## Electrical Systems

- The diesel gen-sets are controlled from switchboards in the control room as well as monitored by a data logging system
- Each generator is connected to the public grid through a 1,600 kVA step-up transformer 0.4/22 kV
- 24 & 110 V DC is supplied for the control system



For environmental protection the plant has a 30 meter high stack for exhaust gases and a waste incinerator for burning sludge oil and solid waste.

The project lay-out allows for a future installation of a desalination plant capable of producing 35 m<sup>3</sup>/24 h clean water from each diesel gen-set.



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