

SAINT LOUIS

3 X 13.8 MW POWER STATION EXTENSION

MAURITIUS



BUILT IN 2006 FOR



Central Electricity Board

BY

BWSC 

Burmeister & Wain Scandinavian Contractor A/S

Saint Louis Power Station Extension

Central Electricity Board (CEB), Mauritius decided as a part of the general development strategy for the generating capacity in Mauritius to demolish the existing power hall building at Saint Louis Power Station and replace it with a modern state-of-the-art medium speed diesel power station.

The project was awarded to Burmeister & Wain Scandinavian Contractor A/S (BWSC) in October 2004 covering a generation capacity of 3 x 13.8 MW based on 3 Wärtsilä diesel engines type 16V46 and auxiliaries for a complete turnkey delivery.

The historical location of the power station close to residential areas constitutes a major challenge to low noise nuisance. Therefore special care and effort have been applied with the use of the best available technology resulting in actual noise levels in the surroundings being far below the guaranteed values. Further, emissions to the environment have been significantly improved both from the modern equipment as well as the waste incineration.



Summary

Contract

Type: Turnkey
Contract signed: October 29, 2004

Technical Data

Diesel Engines

Make: Wärtsilä, Finland
Type: 3 x 16V46, 4-Stroke
Speed: 500 rpm

Alternators

Make: ABB
Type: AMG 1600SP12 LSE
Rating: 15,533 kVA
Voltage/frequency: 11 kV/ 50 Hz
Output at 100% load 13.8 MW at pf 0.9

Radiator Coolers

Make: GEA Ergé-Spirale
Type: Induced draft

Step-up Transformers

Make: Pauwels Trafo
Type: OLS 16/140
Rating: 16 MVA
Voltage: 66 kV/11kV

Power House Building

Make: Rambøll Denmark A/S
Size (W x L x H): 38.2 x 35.5 x 14.0 m
Overhead Crane: Kone Crane 25/5 t

Stack

Make: Steelcon A/S
Height: 45 m
Diameter: 3.6 m
Ducts: 3 x 1,400 mm



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