



FORT VICTORIA POWER STATION MAURITIUS

REDEVELOPMENT PHASE II, 4 X 15 MW - 2012

Central Electricity Board, Mauritius

Fort Victoria Power Station Redevelopment Phase II

As part of the continued strategy to renew and develop the power generation capacity in Mauritius, Central Electricity Board, (CEB), decided to replace an existing power hall at Fort Victoria Power Station with a modern state-of-the-art medium speed power station. With the completion of Phase I of Fort Victoria Power Station in 2010, CEB decided to further extend the power station to increase power generation capacity.

In February 2011, BWSC was awarded the extension project of Fort Victoria Power Station on a complete turnkey basis. The project covers an extension of the existing power house to include 4 new 15 MW Wärtsilä 16V46 diesel engines and auxiliaries which will increase the generation capacity of the power station with a total of 60 MW.

The location of the power station close to residential areas has been challenging. BWSC has therefore paid special attention to noise and emission requirements by utilizing the best available technology in all equipment and components. Furthermore, BWSC has designed and constructed a noise abatement wall ensuring a low noise level in the residential area.

Special care and consideration have also been paid to the limited space on site where extra space within the power station boundary has been made available for even yet another extension of the power station, should this be required in the future.



Summary

Contract

Type..... Turnkey
 Contract award..... February, 2011
 Plant net output 60 MW

Technical Data

Diesel Engines

Make..... Wärtsilä, Finland
 Type..... 4 x 16V46, 4-stroke
 Speed..... 500 rpm

Alternator

Make..... ABB, Finland
 Type..... 4 x AMG 1600SS12LSE
 Rating..... 18811 kVA
 Voltage/frequency..... 11 kV/50 Hz
 Output at 100% load 15.1 MW

Radiator Coolers

Make..... GEA Ergé-Spirale, France
 Type..... Induced draft

Power House

Make..... BWSC/Rambøll A/S, Denmark
 Size (W x L x H)..... 31 x 43 x 13.7 m
 Overhead crane..... 1 x 25/5 ton

Stack

Make..... Steelcon A/S, Denmark
 Height..... 2 x 65 m
 Diameter..... 3.4 m
 Ducts..... 2 x 1.5 m + 1 x 0.5 m

Civil Work

Subcontractor PAD & CO Ltd., Mauritius



Burmeister & Wain Scandinavian Contractor A/S
 Gydevang 35, P.O. Box 235, DK-3450 Allerød, Denmark
 Phone +45 48 14 00 22, Fax: +45 48 14 01 50
 bwsc@bwsc.dk, www.bwsc.com