

## **PRODUCTION TECHNOLOGY:**

Power plant has been activated on December 2001. There are 2 (Two) Wartsila 18V32LN type diesel engines.

Diesel Characteristics;

- 4 (four) stroke cycle, Turbocharged Diesel driven generator,
- Running with HFO #6,
- 18 cylinders – V type,
- Medium speed rates (750 rpm)

It is also produced Steam; 5 ton/h (7 bar-170°C) by using waste heat of exhaust gas temperature. Some of this steam (0.5 ton/h) is used for internal requirements of power plant; The other steam (4,5 ton/h) can be used for steam requirements of factories.

## **PRODUCTS AND SERVICES :**

### **Electricity;**

Nominal Power Rate: 12.2 MW

Internal electricity consumption of the power plant: 0,350 MW

Total Usable Energy Rate: 11,850 MW

Yearly Electricity Production Rate: 97.600.000 kWh/year (\*)

### **Steam;**

Nominal Steam Production Rate: 5 ton/h

Internal steam consumption of the power plant: 0,5 ton/h

Total Steam Capacity: 4.5 ton/h

Yearly Steam Production Rate: 40.000 ton / year (\*)

### **Hot Water;**

Nominal Hot Water Production Rate: 0.5 ton/h (steam equality)

Yearly Hot Water Production Rate: 4.000 ton/year (\*)

**Note: (\*) For minimum 8.000 running hours per year.**

**Diesel Engine-1**  
**Manufacturer WARTSILA**  
**Type 18V32LN**  
**Power 6332KW**  
**Speed 750RPM**  
**Number of Silinder 18**  
**Year 2000**  
**Total Working Hours 23820**

**Diesel Engine- 2**  
**Manufacturer WARTSILA**  
**Type 18V32LN**  
**Power 6332KW**  
**Speed 750RPM**  
**Number of Silinder 18**  
**Year 2000**  
**Total Working Hours 25093**

**Generator-1**  
**Manufacturer ABB AMG 900**  
**Rated Output 8150KVA**  
**Rated Voltage 11000V**  
**Rated Current 428A**  
**Speed 750RPM**  
**Rated power factor 0.8**

**Generator-2**  
**Manufacturer ABB AMG 900**  
**Rated Output 8150KVA**  
**Rated Voltage 11000V**  
**Rated Current 428A**  
**Speed 750RPM**  
**Rated power factor 0.8**