

Veracel Celulose S.A.
Eunápolis
Brazil



A 900 000 t/a greenfield bleached eucalyptus pulp mill.

PÖYRY SERVICES

- pre-engineering and feasibility study
- balance of plant (BOP) complete with equipment, materials, engineering, construction and erection
- owners engineering services
- detail engineering services for various EPC packages

Schedule

- pre-engineering and feasibility study 2002, purchase orders July 2003, start-up May 2005

Investment

- inside fence USD 860 million
- forestry-related activities, roads and harbour USD 300 million
- infrastructure USD 70 million
- balance of plant (BOP) USD 92 million included in inside fence investment

TECHNICAL DATA

Design capacity 2 820 ADt bleached/d

Wood handling

- two parallel wood handling lines for forest-barked wood, outside chip storage
- 750 m³ sub/h
- supplier: Metso Paper

Fibre line

- LoSolids cooking
- two-stage oxygen delignification
- deknottling and three-stage pressure screening
- bleaching sequence A/DO-EOP-D1-D2(P)
- scrubbing and washing systems
- 2 830 ADt bleached/d
- supplier: Andritz

Drying machine

- 9.3 m twin wire former
- airborne dryer
- cutter and three bailing lines
- 3 000 ADt/d
- supplier: Andritz-Voith

Chemical plant

- off-site chemical plant incl. chlorate and chlorine dioxide manufacturing
- 45 t ClO₂/d
- supplier: EKA Chemicals

Recovery and power plant

- falling-film type evaporation in six stages, 1 000 t H₂O/h, Confab
- cooling tower
- 4 000 t DS/d recovery boiler from Aker Kvaerner
- auxiliary boiler using bubbling fluidizer bed technology from Aker Kvaerner
- causticising plant, 9 000 m³WL/d, Andritz
- rotary lime kiln with LMD, 700 t lime/d, Andritz
- turbine-generator, 125 MW, Mitsubishi
- 34.5 KV electrical power distribution system, ABB
- all necessary utilities
- BAT for air emissions, one single stack for all emitting sources

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Competence. Service. Solutions.

Water treatment

- pumping station, silt removal, chemical coagulation and sand filtration
- 5 300 m³/h
- supplier: Centropjekt

Effluent treatment

- BAT liquid effluent treatment with primary clarification, cooling and final activated sludge method
- solid waste treatment incl. humus production from activated sludge
- 5 300 m³/h
- supplier: Centropjekt

Control system

- distributed control system (DCS)
 - Invensys/Foxboro
- complete mill-wide process and management system
- dynamic simulator