

P.T. Riau Andalan Pulp & Paper Pulp Mill Expansion Project, Kerinci Indonesia



A new pulp line with a rated production capacity of 1 100 000 t/a of hardwood pulp.

PÖYRY SERVICES

- project management services
- engineering services
- commissioning and start-up services

Schedule

- effective date of equipment contracts for pulp line 2:
 - phase I: July 1999
 - phase II: July 2000
- start-up:
 - phase I: September 2000
 - phase II: 2nd quarter, 2001

TECHNICAL DATA

Design capacity of pulp line 2 is 1 100 000 ADt/a ECF bleached pulp

Fibre line expansion

- four parallel debarking and chipping lines, capacity 994 m³/h sub/h
- four bark crushers, capacity 300 m³/h
- Super Batch cooking system with 14 digesters of 400 m³ each
- two-stage oxygen delignification

- parallel wash press lines in washing and bleach plants
- four-stage screening
- bleaching sequence D₀-EO-D₁-D₂
- upgrading of existing drying machines to 1600 ADt/d each
- one new 2000 ADt/d drying machine, 6.7 m trim, with air-borne dryer and two baling lines
- fuel oil storage 7000 m³
- four air compressors

Recovery line expansion

- two recovery boilers, 3800 tDS/d each, c/w ancillaries
- two 5-stage evaporation plants, design capacity 900 t H₂O/h, c/w cooling towers
- recausticising plant, increase in total capacity to 29 700 m³ WL/d
- lime kiln 1050 t burnt lime/d
- power boiler 468 t/h steam
- back-pressure turbine - 100 MW
- condensing turbine 100 MW

Water treatment, plant expansion

- capacity 600 000 m³/d
- water intake
- fixed structure pump house
- pipeline 5.6 km x 1.5 m diameter
- two clarifiers, 56.4 m in diameter, 6.5 m high
- eight sand filters, 10 m x 10 m x 5 m (height)
- eight sand filter basins, 10 m x 10 m x 5 m (depth)

Chemical plant expansion

- HCl plant - 158 t/d
- chlorate plant - 92 t/d
- chlorine dioxide plant - 55 t/d
- oxygen plant - 160 t/d

Effluent treatment, plant expansion

- design capacity 169 500 m³/d
- two primary clarifiers, diameter 62 m, 4 m deep
- 27 surface aerators
- two secondary clarifiers, diameter 82 m, 4.7 m deep
- three sludge thickeners
- three screw presses
- four cooling towers

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