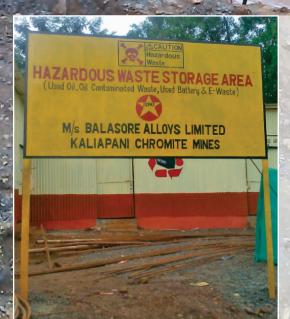




Balasore Alloys Ltd. Dewatering of Captive Mines (Slurry having upto 25% solids by Volume)

at Sukhinda, Odhisha



Balasore Alloys Limited

Balasore Alloy's Ltd. (BAL) is part of the renowned Ispat group of Companies, a major business house in the country.

The company has Chromite mines in different

locations in Sukinda Valley at Jajpur Road (Odisha) making it one of the **very few** Ferro Alloys manufacturing companies in the country having **captive chromite mines**.







Situation & Problem :



Earlier BAL was using Conventional Horizontal Centrifugal Pumpsets (non submersible type) by putting suction pipe (by negative suction method) for it's pumping needs.

BAL was facing major problems of limitations of Priming (suction lift), Motor Burning due to Overnight rains & the huge maintenance of couplings, greasing, alignment meant that they had to depute huge maintenance staff.

Centrifugal pump motor's misalignment caused heavy vibrations & required frequent Bearings & Rotor replacement.

BAL were also facing suction chocking due to high Iron Ore Slurry.

Solution :



In 2014, for the second stage of pumping (*in first stage, the submersible slurry pumps pumping slurry to the nearby sump*) BAL had purchased 2 Nos. of Aqua's Mine Dewatering Pumpsets for their Thick Slurry (25% by Volume) Water pumping.





Solution :







Aqua's pumps were specially designed with variable head.

In this second stage Aqua's pumps are pumping thick slurry water to 100 m head.





Low Life Cycle Costs (LCC)

Highly Efficient, Minimal Maintenance, extremely Low Consumables and spare part requirements; Low down time



Being safely tucked away under water, Submerged pumpsets are exposed to Lower Risks of damage by Flying Debries loosened during blasting & excavation.



Weather Proof No Damage due to rain



Plug & Pump MINI No base Plate or Coupling to align;

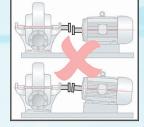
No priming to startup

Maintenance Free

- No Oiling, No Greasing,
- No Gland Tightening



Date :21-10-2017



- No Shaft Alignment
- No Coupling or Base Plate Maintenance

TO WHOM IT MAY CONCERN

THIS IS TO CERTIFY THAT WE HAVE PROCURED TWO NOS 250 HP MONOBLOCK SUBMERSIBLE SLURRY PUMPS FROM M/S TECHNO SERVICES ENGINEETING SYSTEMS PVT LTD, KOLKATA.IN OUR OPEN CAST MINE AT SUKHINDA

DETAILS OF PUMPS ARE AS UNDER

MANUFACTURER: AQUA MACHINERIES PVT LTD, AHMEDABAD PUMPING MEDIA: HEAVILY CONCENTRATED SLUDGE MIXED WITH FINE SOLIDS SLURRY CONCENTRATION: 25% BY VOLUME MAX RATED CAPACITY: 250 M3/HR RATED HEAD: 100M MOTOR RATING: 250 HP

PUMPS WERE COMMISSIONED IN 2015 AND GIVING SATISFACTORY PERFORMAMNCE SINCE THEN

ABHAYA KUMAR BISWAL SR. MANAGER FOR BALASORE ALLOYS LTD Kaliapani Chromite Mines M/s. Balasore Alloys Limited

Aqua Machineries Private Limited

www.aquapumps.com

Registered Office & Manufacturing Plant

Survey No. 504/1-2, 442/2, Near Haridarshan Estate, Near Express Highway, Ramol, Ahmedabad-382 445. Gujarat, India. marketing@aquapumps.com

