

Sluicer

Baner Sangam Hydropower Plant, India

Challenge

Baner Sangam is a 5 MW run-of-river hydropower plant in northern India. During the monsoon season, the Baner Stream carries large sediment loads, with an estimated annual sediment transport of one to two million tonnes.

Efficient sediment removal was essential to protect the turbines and maintain reliable plant operation.



SediCon Sluicers installed in the desander



Sediment discharge during operation

Solution

SediCon redesigned the existing desander and supplied two SediCon Sluicers for continuous sediment removal. The system discharges sediments downstream of the intake through dedicated outlet pipelines, allowing sediment removal without interrupting power generation.

The optimized solution maximizes sediment removal while minimizing water consumption and protecting downstream equipment from abrasive wear.



Project Location

Project facts

Client: Yogindera Powers Ltd.
Project: Baner Sangam HPP
Location: India
Technology: 2 x SediCon Sluicers
Installed capacity: 5 MW
Annual production: 32 GWh
Net head: 44 m
Design discharge: 14.2 m³/s

Results and benefits

- Continuous sediment removal
- Capacity up to 800 t/h
- Handles particles up to 80 mm
- Reduced turbine wear
- Low water consumption
- Optimized desander design

For more than 30 years, SediCon has developed and supplied proprietary sediment handling technologies from Trondheim, Norway. Our solutions for reservoirs, intakes, desanders and tunnels have been successfully implemented in hydropower projects in more than 20 countries across five continents.