

SediCon Sluicers for Coca Codo Sinclair, Ecuador

The SediCon Sluicers with capacity to remove 6 million tons of sediments annually, without interfering with the power plant operation.



SediCon Sluicers at Coca Codo Sinclair



Eight desanders, 150 m long.



Flushing of sediments

Project Description:	Coca Codo Sinclair is a 1500 MW run-of-river power plant, commissioned in 2017. The annual production is 8.6 TWh, with a net head of 604 m and a discharge of 220 m ³ /s.
Location:	100 km east of Quito, Ecuador. 0°11'56.30 S and 77°40'52.97 W
Client:	Sinohydro Ltd & Coca Codo Sinclair Ltd
Sediment Challenge:	The river carries several million tons of sediments annually. The intake pond has practically no sediment storage capacity and the eight desanders are required to constantly remove sediments.
Solution:	SediCon supplied 40 fully independent SediCon Sluicers for the eight desanders, five in each. The SediCon Sluicers discharges into the bypass channel for a minimum flow release. Five echo sounders in each desander give full information about sediment levels and the discharge gates can be operated remotely or from the intake control room.
Implementation:	SediCon finished the installation of the SediCon Sluicers and its monitoring system during the first half of 2016.
Results:	The SediCon Sluicers were installed in 2015-2016, and 20 SediCon Sluicers have been successfully operating since July 2016. The remaining 20 SediCon Sluicers were commissioned by the end of 2016 and tested in 2017.

SediCon is the leading supplier of sediment handling worldwide and provides reliable solutions with low water consumption and uninterrupted power production.