

SediCon Dredge for Malana HPP, India

36 000 m³ sediments were removed during the first two months of operation.



SediCon Dredge at Malana HPP



Removed sediment deposits

Project Description:	86 MW, Run-of-River, commissioned 2001 Annual production of 350 GWh, Net head is 600 m and discharge is 26 m ³ /s. Malana HPP have four desilting basins, a 249 000 m ³ storage reservoir and a 3.3 km long Headrace tunnel. 2 vertical shaft Pelton turbines.
Location:	Kullu District, Himachal Pradesh, India 32°02'09.4"N 77°15'21.7"E
Client:	Malana Power Company Ltd (MPCL), a joint venture between SN Power of Norway and LNJ Bhilwara of India.
Sediment Challenge:	The power plant has since commissioning in 2001 suffered from abrasive sediments, leading to severe turbine wear. Average grain size of the sediments is 0.09 mm.
Solution:	SediCon supplied a SediCon Dredge, allowing sediment removal without input of power, by using a hydrosuction system.
Implementation:	The SediCon Dredge was implemented during monsoon season 2005.
Results:	During two months in the summer of 2005, 36 000 m ³ sediments were removed from the storage reservoir. As sediments were removed only during monsoon, when excess water is available, no water was taken from production.

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