SIKA AT WORK
REPAIR WORK FOR MANDIRA DAM
ROURKELA, ODISHA
SIKA® REFURBISHMENT SOLUTIONS AT MANDIRA DAM
REFURBISHMENT OF MANDIRA DAM WITH SIKA TECHNOLOGY

Mandira dam is located near Kansbahal in Sundergarh district, Odisha, India. It is built across Sankh river, located 16 km upstream from Mandira. The water from the dam is used for Rourkela Steel Plant. Construction of the dam began after 1957.

Maximum height = 35.38 m from the deepest foundation level.

Spillway length = 243.14m with 11 nos. of radial gates of size 15.5 x 6.1m each.

Catchment area = 6152 km²

**Project Requirements**

- Erosion & cavities in spillways, cavities in chute, baffle block & weir walls, repairing to basin area

**Sika Solution**

- Injection grouting, jacketing, epoxy lining, PU coating
- Solution to ogee
  a) Filling up the Cavities due to erosion using SikaTop®-122 HS
  b) Lining by Epoxy mortar Sikadur®-53 UF
  c) Applying final two coats of PU coating Sikagard®-PU (UR) to obtain a smooth surface.

- Solution to baffle block & basin area
  d) Jacketing of the Walls & Blocks upto 75mm using SikaRep®-Microcrete 4
  e) Lining by epoxy mortar Sikadur®-53 UF
  f) Applying final two coats of PU coating Sikagard®-PU UR to obtain a smooth surface.
  g) Crack filling with Sikadur®-53 UF

**Sika Products**

- SikaTop®-122 HS, SikaRep®-Microcrete 4, Sikadur®-32 LP, Sika® Latex Power, Sikagard®-PU(UR), Sikadur®-53 UF

**Project Participants**

- Client - SAIL RSP
- Consultants – CWPRS
- Applicator – M/s.VK Enterprises, M/s. Dynasoure Concrete Treatment Pvt. Limited
SIKA® REFURBISHMENT SOLUTIONS

SIKA TECHNOLOGY AT MANDIRA DAM, ODISHA

WHO WE ARE
Sika AG, Switzerland, is a globally active specialty chemicals company. Sika supplies the building and construction industry as well as manufacturing industries (automotive, bus, truck, rail, solar and wind power plants, façades). Sika is a leader in processing materials used in sealing, bonding, damping, reinforcing and protecting load-bearing structures. Sikas product lines feature high-quality concrete admixtures, specialty mortars, sealants and adhesives, damping and reinforcing materials, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.

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