REFERENCE PROJECTS:

- Hirakud dam, Odisha (Under water)
- Jonk dam, Odisha (Dry condition)
- Mandira dam, Odisha
- NHPC Dhauliganga, Uttarakhand
- Himachal Baspa Power Company Limited, Himachal Pradesh
- Minimata Bango dam, Chattisgarh (Under water)
- Murrum Silli dam, Chattisgarh (Dry condition)
- Bidyadharpur barrage, Odisha
- Tarkera reservoir, Rourkela, Odisha
- Subamarekha canal, Bihar
- Paradeep port, Odisha (Underwater Repairs)
- Rihand dam, UP (Underwater Repairs)
  And many more...

SIKA SOLUTIONS FOR
DAM REHABILITATION
**REFURBISHMENT OF DAM STRUCTURE**

**DURABILITY OF CONCRETE STRUCTURES**

In the 21st Century, reinforced concrete structures are built to serve the next generations. Most dams are now designed to last more than 100–150 years.

**TYPICAL PROBLEMS IN DAMS**
- Cracks in the body of the dams
- Leakage in intake gate
- Leakage in draft tube
- Leakage in inspection gallery
- Abrasion of spillways
- Damages to baffle blocks
- Damages to stilling basin

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**Sika customised solutions for:**
- **GROUTING & FIXING**
- **REPAIR & STRENGTHENING**
- **PROTECTIVE COATING**

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**GROUTS**

Grout is a unique blend of cements formulated to compensate for shrinkage combined with special ingredients to allow controlled expansion with maximum strength.

**TYPES OF GROUT**

**Product wise:**
- Cementitious
- Epoxy
- Polyurethane
- Ultrafine/Micro cement

**Application wise:**
- Pourable
- Injectable

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**REPAIR AND STRENGTHENING**

**SIKATOP®, SIKAREP®, SIKAGARD®**

**5 KEY STAGES IN CONCRETE REPAIR**

**STEP 1**
Assessment of the structure

**STEP 2**
Diagnose cause of deterioration

**STEP 3**
Options and objectives of repair

**STEP 4**
Select repair process

**STEP 5**
Future maintenance

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**CONCRETE PROTECTION**

**SIKADUR®, SIKAGARD®, Sika® ABRAROC® SR**

**PRODUCTS FOR DAM REHABILITATION**

- Low Viscous injection Resin for dry location - Sikadur 52
- Underwater free flow high strength epoxy resin grout - Sikadur 53 UF
- Under water epoxy putty - Sikadur 694 F(I)
- Rust Remover - Sika RustOff-100
- Anti Corrosive rebar coating - SikaTop Armatec 108
- Polymer Modified Repair Mortar - SikaTop 122 HS
- Epoxy Patching Mortar - Sikadur 53 UF Mortar
- Epoxy based bonding agent for old to new Concrete - Sikadur-32LP
- Micro Concrete (For Surface & Underwater Repairs) - SikaRep Microcrete-3 & 4
- Hydraulic Abrasion Resistant Mortar - Sika® Abaroc® SR
- UV resistant PU based Protective Coating for Concrete - Sikagard PU (UR)