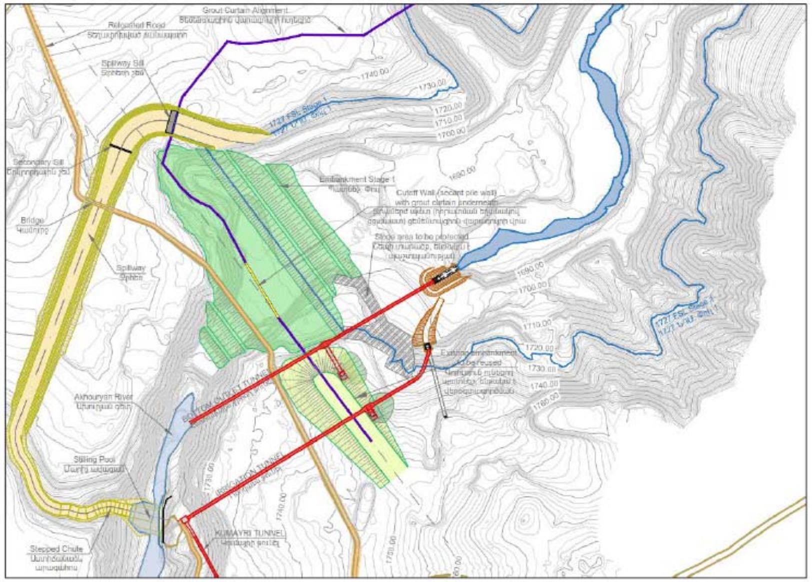
ChemHem ENGINEERING

BUILD A SUSTAINABLE FUTURE



PROJECT TECH INFO

THE PROJECT STARTS WITH A PARTLY CONSTRUCTED EMBANKMENT IN A HEIGHT OF ABOUT 25 M. A CONSTRUCTION TUNNEL CONVEYING AKHOURYAN RIVER THROUGH THE DAM SITE. PARTIALLY FINISHED OPERATIONAL OUTLET TUNNELS. A PARTIALLY CONSTRUCTED GROUT CURTAIN. THE FIRST STAGE OF THE KAPS DAM CONSTRUCTION IS THE FINALIZATION CONSTRUCTION OF THE DAM IN THE HEIGHT OF 1727 M ASL WITH A STORAGE VOLUME OF ABOUT 26.5 MM³. THE SECOND STAGE WILL BE AN INCREASE OF THE DAM HEIGHT TO 1745 M ASL. THIS STAGE WILL ENABLE A STORAGE VOLUME OF ABOUT 60 MM³. FOR REHABILITATION AND RAISING OF THE DAM TO ITS FINAL NEW DESIGN HEIGHT OF 65 M, A NEW DAM EMBANKMENT WILL BE CONSTRUCTED ON TOP OF THE EXISTING UNFINISHED EMBANKMENT. THE DAM IS LOCATED IN AN HIGH-RISK EARTHQUAKE REGION. HENCE, THE SPILLWAY IS DESIGNED AS A TECHNICALLY ROBUST SOLUTION

IWRM Akhouryan River

Construction of Kaps Reservoir and Irrigation System

Location: Armenia

Project duration: 2019

Project cost: 50 million Euros

Financing: Kreditanstalt für Wiederaufbau (KFW)

Client: Water Sector Projects Implementation Unit SA of Water Committee of the Ministry of Energy Infrastructures and Natural Resources

Project summary: Hydromechanical, Instrumentation & Electrical Design of Rockfill Kaps Dam

Scope of Services: **Detailed Hydromechanical, Dam Instrumentation & Electrical design** including **SCADA** automated process for Rockfill Dam **FIDIC Red Book**

Type of services: Freelanced based

Company employer: CES Consulting Engineers Salzgitter GmbH, Braunschweig, Germany.