Water Diversion Tunnel
CHAMSHIR Project

Kohgiloyeh-boyerahmad, IRAN

Project aim
Providing water for irrigation of about 110 thousand hectares of lands, flow control and regulation of yearly 1.8 billion cubic meters, as well as generation of 482 gwhr hydro energy

Construction Costs
Construction Headrace TU: approx. USD 300 million

Project Schedule

Design:	2013
Construction:	will be started in 2013

Project Description, Construction Headrace
Water transfer from a regulating dam to powerhouse, circular profile

Length:	7465 m
Curve radius:	Straight
Gradient:	0.065 %

Method of Excavation
Single Shield TBM ø 5.30 m

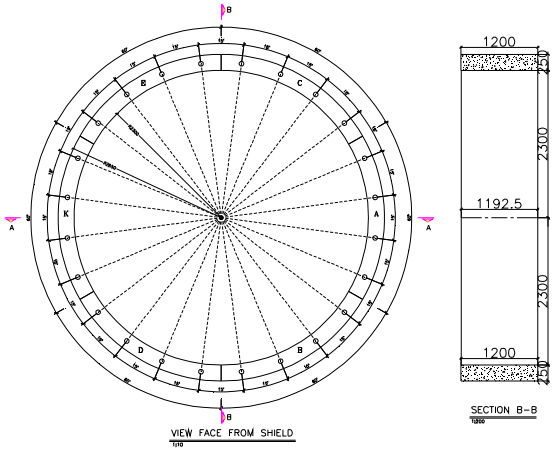
Geology
Carbonate sandstone, silty marl, claystone, siltstone, conglomerate
Max. overburden: 180 m

Our Services
Detail design of new segmental lining for refurbished Herrenknecht TBM; including:
•Segmental type selection (Rhomboidal – 6+0)
•Preparation of detailed geometrical design drawings
•Finalization of geometry with mould supplier
•Tunnel stability analysis and calculation of loads and load combination
•Structural design and analysis and preparation of rebar drawings
•Design of segmental lining based on steel fiber solution

Client and Contact Person
Sabir Co. (General Contractor for Infrastructure Projects)
Mr. M. Khosrotash (Project Manager)

Chamshir dam location

Assembly of Herrenknecht Model S-124 in its previous job



Cross-section of 6+0 Rhomboidal segmental lining