

# BEKHME

Iraq



Proposed Damsite

## DESCRIPTION

For this project, a rockfill dam, 230m in height, is proposed to be built on the Greater Zab River, a tributary of the Tigris. To protect the project from hostile actions, the penstocks, powerhouse and

switchyard are all designed underground. The intake structure will also be underwater. Further, in addition to the spillway tunnels, four lines of bottom outlet, each with a diameter of 5.2m, will be installed in order to promptly lower the reservoir water level in case of emergency.



## NAME OF CLIENT:

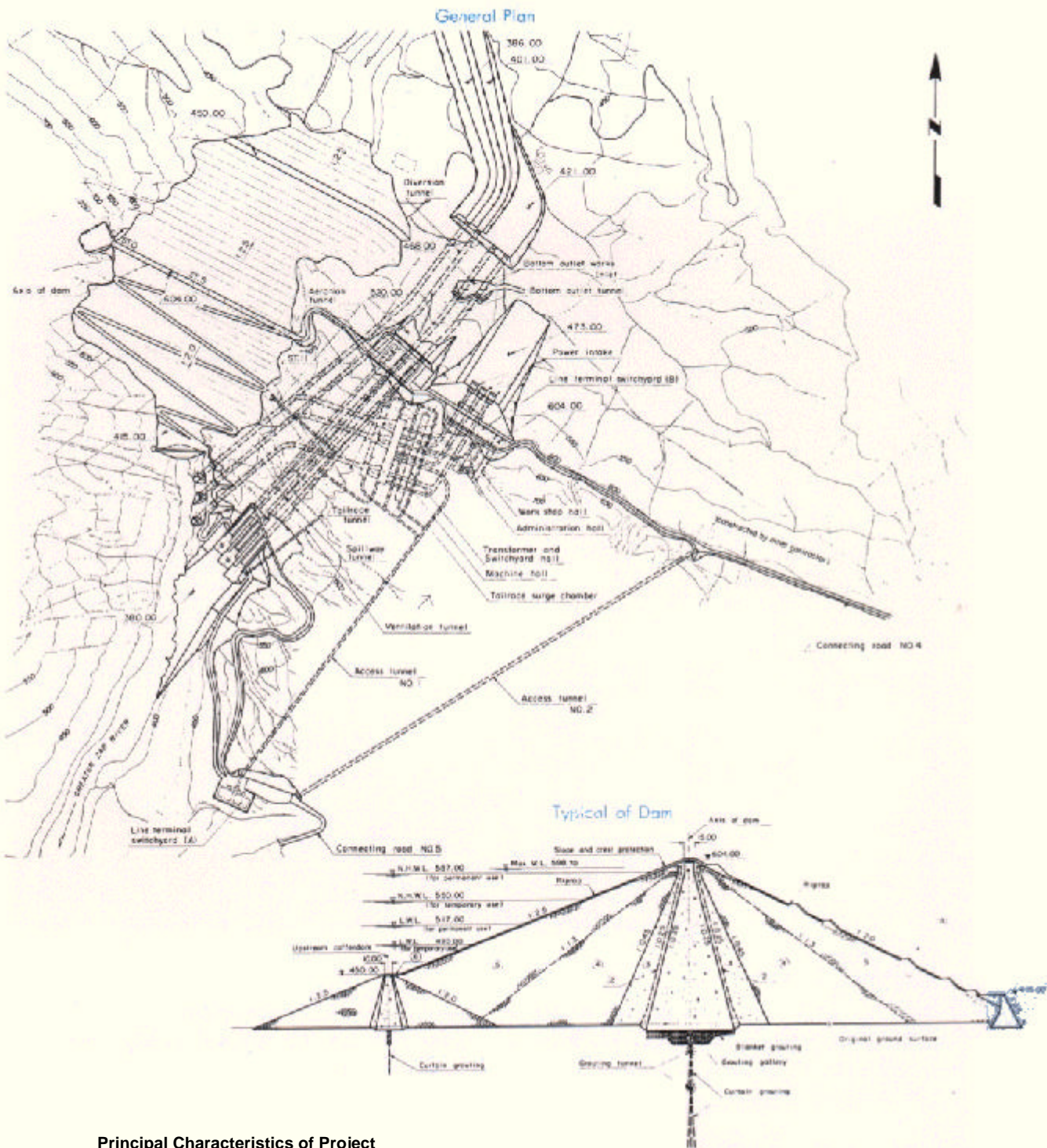
Ministry of Irrigation (MOI)

**CAPACITY:** 1,500MW

## SERVICES:

Feasibility Study

Detailed Design (March 1979 - October 1988)



**Principal Characteristics of Project**

<b>Catchment Area</b>		16,600km <sup>2</sup>
<b>Reservoir</b>	Total Storage Capacity	17.1 x 10 <sup>9</sup> m <sup>3</sup>
	Effective Storage Capacity	12.6 x 10 <sup>9</sup> m <sup>3</sup>
	Available Depth	82m
<b>Dam</b>	Type	Rockfill Dam with Center Core
	Height x Crest Length	230 x 570m
	Total Volume	34,000 x 10 <sup>3</sup> m <sup>3</sup>
<b>Spillway</b>	Type	Tunnel Chute Spillway with Control Gates
	Capacity	8,865m <sup>3</sup> /s
<b>Penstock</b>	Type	Embedded Welded Steel Penstock
	Length	310-480m
	Diameter	9.0-4.9m
<b>Power House</b>	Type	Underground Type
<b>Turbine</b>	Type	Vertical Shaft Francis Turbine
	Output x No. of Unit	256MW x 6
	Rated Head	169m
<b>Generator</b>	Type	3-Phase AC Synchronous Generator
	Output x No. of Unit	295MVA x 6