

JOBAT - PROJECT

SILENT - FEATURES

LOCATION

State-	Madhya Pradesh
District –	Jhabua
Latitude-	22 ⁰ -16'-50"
Longitude-	74 ⁰ -35'-10"
River- Hatni.	
Location –	Dam site is near village waskal, 24 Km, away from Kukshi Tehsil of Dhar District

HYDROLOGY

Catchment Area	792.00 Sq. Km.
Upto Dam site	
Maximum Annual Weighted Reinfall (1944)	1577 M.M.
Design Flood	4426.7 Cusecs.
Available Runoff at DataSite :	
50% Dependability	280.40 Million cubic meter
60% Dependability	245.00 Million cubic meter
75% Dependability	198.30 Million cubic meter
90% Dependability	94.70 Million cubicmeter

RESERVIOR DATA

Top of Bank Level	262.72 m.
Maximum water Level	260.17 m.
Full Reservior Level	260.17 m.
Dead Storage Level	247.00 m.
Water Spread at F.R.L.	1210 Ha.
Gross Storage at F.R.L.	106.00 MCH
Dead Storage	15.296 MCM
Live Storage	90.704 MCM

DAM

Overflow Dam	
Top of Dam	262.72 M.
Length of Spillway	200 m.
Crest of Spillway	254.47m.
Bottom elevation of	

Spillway	223.0 m.
Maximum height above foundation	39.72 M.
Number and size of	8 Nos. of 5.7 m. x 12 m.

Non- Overflow Dam
(Masonry)

Top of Dam	262.72 m.
Length of non-overflow Dam	105 M.
Maximum height above foundation	39.72 m.
Top width of the Dam	6.10 m.

Earth Dam	
Top of Dam	262.72 m.
Length of Dam	1340.00 m.
Maximum Height	28.97 m.
Top width of dam	6.10 m.

Canal system
(Irrigation)

Gross Commanded Area	22941.0 Ha.
Project Commanded Area	14122.0 Ha.
Annual Irrigation	12802.0 Ha.
Service Area (CCA)	9848 Ha.

Length of Canal

Length of Left Bank Flow Canal	34.05 Km.
	<u>Lowest Supply Level at Head of Canal</u>

Left bank flow canal 247 m.

ESTIMATED COST

Unit I (Dam and Appurtenant Works)	Rs. 16.445 Crores.
Unit II (Main Canal And Branches)	Rs. 10.466 Crores.
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	Rs. 26.911 Crores.

BENEFITS

Annual additional yield

food and other crops
Annual value of
additional produce

29.92 thousand tones.

Rs. 1.66 Crores.

Benefit Cost Ratio

(i) 1.36 As per World Bank Criteria.

(ii) 1.18 As with indirect Benefit.

(iii) 1.11 Without indirect Benefit.