

SALIENT FEATURES OF OMKARESHWAR PROJECT

LOCATION

State	:	Madhya Pradesh
District	:	Dam-khandwa
		Command khandwa,khargone&Dhar.
Latitude	:	22 ⁰ -15'-30" N)Toposheet No.
Longitude	:	76 ⁰ -9'-30" N) 55 B/13. 53/B 14
River	:	Narmda
Location	:	11.2 km away from omkareshwar Road Railway Station (W.R)

48 km D/S of Narmada Sagar Dam Site.

HYDROLOGY

Catchment area		
Upto dam site	:	64880 km ²
Maximum annual		
Rainfall 1944(Mortakka)	:	11851 mm
Minimum annlual		
Rainfall 1899 (Mortakka)	:	604 mm
Average annual rainfall		
(1891-1967)(Mortakka)	:	1,282.7 mm
Design flood (peak)	:	80,816 m ³ /sec
Actual observed		
Maximum flood at		
Mortakka	:	59,350 m ³ /sec

Available run off At
omkareshwar Dam
site(1891-1977)
from computed
Series at 75%
dependability : 27,877 mm³

RESERVIOR DATA

Maximum water level : 202.69 m
Full Reservoir level : 201.16 m
Dead storage level : 193.54 m
Water spread at FRL : 14154.78 ha
Gross Storage at FRL : 1.50 mm³
Dead storage : 0.69 mm³
Live storage : 0.81 mm³

Dam

(a) Overflow dam

Top of dam : 205.74 m
Length of spillway : 351.13 m
No. and size of crest : 16 Nos.
Gates 18.29 m x 17.07 m
Crest level : 184.10 m
No. and size of under
Sluices : 10 No. of 3.05 m x 4.57 m
Top width of the dam : 7.62 m

(b) Non overflow dam

Length of Non overflow
Dam : 306.02 m
Maximum ht above

Foundation : 48.77 m

(c)POWER DAM

No. and size of units : 6 Nos. of MW each

6 Blocks of j16.26 M : 97.60 m

Type of turbine : Francis

Power development at
100 percent load factor

Final phase : 80 MW

Total length of Masonry : 754.75 m

Dam

(a) + (b) + (c)

Canal system (Irrigation)

Gross commanded area : 1.715 lakh ha

Area to be irrigated : 1.325 lakh ha

(CCA)

Length of canals

Length of leftbank : 72 km

Main canal

Length of right bank

Flow canal : 160 km

Length of right bank : 160 km

Lift canal

392 km

Estimates of cost

Cost of unit I (Dam and

Appurtenant work) : 63.90

Cost of unit II (Main canal

and Branches) : 101.08

Cost of unit-III (Hydro-

Electric works) : 137.73

Total : 322.71

Apportionment of cost : Rscores

Chargeable to irrigation : 122.38

Chargeable to power : 200.33
Cost per ha of C.C.A : 10460

Benefits

Annual additional yield food and

Other crops : 6.31 Lakh tonnes

Annual Value of additional produce :

Food and other crops : Rs 33.65 crores.
