

# **MAN PROJECT**

## **SALIENT FEATURES**

### **LOCATION**

State	Madhya Pradesh
District	Dhar
Latitude	22 <sup>0</sup> -20' - 30"
Longitude	75 <sup>0</sup> -5' - 30"
River	Man
Location	Dam site is near village Sitapuri 15 Km. (9.32 miles) away from Manawar, Tehsil of Dhar District.

### **HYDROLOGY**

Catchment area up to dam site	838.30 Sq. Km.
Maximum annual weighted rainfall 1959	1550.05 mm
Design flood	5512.6 cumec.
Available run off at dam site 50% dependability	<u>0.312 MCM</u> (0.253MAF)
60% dependability (0.224MAF)	<u>0.276 MCM</u>
75% dependability off at dam site(0.179MAF)	<u>0.221 MCM</u>
90% dependability (0.075 MAF)	<u>0.093 MCM</u>

## **RESERVOIR DATA**

Maximum Water level (MWL)	263.41 m
Full reservoir Level ((FRL)	263.04 m
Dead Storage level (DSL)	248.41m
Water Spread at F R L.	1077 ha
Gross storage at F. R.L.	<u>0.120 MAM</u> (0.097MAF)
Dead storage	<u>0.21 MCM</u> (0.017MAF)
Live Storage	<u>0.099 MCM</u> (0.080 MAF)

## **DAM**

Over flow dam	
Top of dam (THL)	265.85 m
Length of spillway	158.49 m
Maximum height above foundation	7.62m
Number and size of crest gates	8 Nos of 16.76 x 7.62 m

## **Non-over flow dam (Masoory)**

Top of dam	265.85 m
Length of non-over flow dam	76.20 m
Maximum height above flow dam	18.04 m
Maximum height above (which also carries a road 20 ft wide including walls)	6.10 m

**Earth dam :**

Top of dam	265. 85 m
Length of dam	2468.88 m
Maximum height above deepestFevered	39.31 m
Top width of dam	6.10 m

**Canal System (Irrigation)**

Gross commanded area (GCA)	<u>16.098 Ha</u> (39779 AC)
Project commanded area (PCA)	<u>14,392 Ha</u> (35562 AC)
Annual Irrigation	<u>19,814 Ha</u> (48960 AC)
Service area (CCA)	<u>11,943 Ha</u> (29500 AC)

**Length of Canals**

Length of right bank flow canal	18.66 Km
Length of left bank flow Canal.	24.45 Km

**Full supply level as Head of Canal**

Right Bank flow canal	247.80 m
Left Bank flow canal	247.80 m

**Estimated cost:**

Unit-1 Dam (& appurtenant	19.18 Croreworks)
Unit-II Main Canal and branches.	<u>4.77 crore</u> <u>Rs. 23.95 crore</u>

**Benefits :**

Annual additional yield food & other crops	Rs.0.46 Lakh tonne
Annual value of additional produce.	Rs.7.54 crore
Benefit cost ratio with 10% interest on capital outlay	1.503