SALIENT FEATURES

Sl. No		
1	**State**	Madhya Pradesh
2	**District**	Mandla
3	**Latitude**	22^{o} 58'18" N
4	**Longitude**	80^{o} 34' 43" E
5	**River**	Narmada
7	**Catchment area upto dam site**	4337 Sq. km
8	**Total Land to be acquired**	3235 ha
9	**Maximum annual rainfall (1926)**	2212 mm
10	**Minimum annual rainfall (1966)**	682 mm
11	**Average annual rainfall**	1460 mm
12	**Design flood (SPF)**	29670 Cumecs
13	**Probable Maximum Flood**	35177 cumec
14	**Available runoff at ROSARA**	
i)	At 50% dependability	2300.6 MCM
ii)	At 75% dependability	1372.1 MCM
iii)	At 90% dependability	1077.9 MCM
15	**Reservoir data**	
i)	Average River Bed Level	492.0 m
ii)	Maximum water level	551.20 m
iii)	Full reservoir level	550.00 m
iv)	Silt Elevation	502.21 m
v)	Minimum Draw Down Level (MDDL)	531.00 m
vi)	Water spread at FRL (Submergence)	3066.34 ha
vii)	Gross storage at FRL	675.85 MCM
viii)	Dead storage (MDDL)	100.69 MCM
ix)	Live storage	575.16 MCM
x)	Maximum tail water level	505.10
xi)	Average tail water level	495.45

Sl. No		
xii)	Minimum tail water level	494.30
xiii)	Flood Level	511.00 m
16	**DAM**	
(A)	**Overflow Dam**	
i)	Top of dam	553.5 m
ii)	Length of spillway	260 m
iii)	Crest level	532.0 m
iv)	Foundation drainage gallery level	491 m
v)	Maximum height from deepest bed level	66.50 m
vi)	No. & size of crest gates	13 gates of size 15.5 m x 18 m
vii)	Type of Energy Dissipater	Trajectory Bucket
viii)	Width of road on top of dam including parapets	7.5 m
(B)	**NON OVERFLOW DAM**	
i)	Top of dam	553.5 m
ii)	Length of non-overflow (concrete) dam	LHS 70.00 m RHS 30.00 m
iii)	Length of non-overflow (CFRD) dam	LHS 196.80 m RHS 312.60 m
iv)	Maximum height above foundation level	65.5 m
(C)	**POWER DAM**	
i)	Top of dam	EL 553.5
ii)	Length of power dam	40 m
iii)	Maximum height above foundation	65.5 m
iv)	No. & diameter of penstocks	2 No.& 3.00 m dia.
v)	Length of penstock	77.5 m
vi)	Center line level of penstocks at bell mouth intake	524.19 m
vii)	Design discharge	83.21 Cumecs (41.605 cumecs each)
(D)	**POWER GENERATION**	

Sl. No		
i)	Type of Power House	Surface type
ii)	Size of Power House	49.80 m x 17.00 m
iii)	Foundation level of Power House	EL 483 m
iv)	No. & size of units to be installed	2 units of 12.5MW
v)	Type of turbine	Francis
vi)	Installed capacity	2 x 12.5 MW
vii)	Gross head	55.70 m
viii)	Net design head	46.84 m
ix)	Size of draft tube gate	3.25 m x 4.10 m
x)	Size of Tail pool	23.70 m x 38.45 m
xi)	Length of TRC	120 m
xii)	Size of switch yard	75 m x 100 m
(E)	Total Length of Composite Dam	869.40 m
17	**ESTIMATE OF COST**	
i)	Land	77.57 crore
ii)	Concrete Dam	131.85 crore
iii)	CFRD	20.96 crore
iv)	Power Plant and Civil Works	14.22 crore
v)	Other Expenditures	144.29 crore
vi)	Electrical Work	49.64 crore
vii)	Total cost chargeable to power (without IDC))	438.53 crore
viii)	Cost per MW of installed capacity	20.31 crore per MW
18	**Levellised Tariff (Rs./unit)**	5.20
19	**Design Annual Energy Generation (MU)**	116.83