

**SONKHEDI TANK PROJECT**  
**SALIENT FEATURES**

<b>I</b>	<b>GENERAL DATA</b>	
1	Name of the Project	: Sonkhedi Tank Project
2	District	: Barwani
3	Block	: Sendhwa
4	Tehsil	: Varla
5	River or Nalla	: Local Nala
6	Location of Dam Site	
	a) village	: Near Village Sonkhedi
	b) Toposhit No	: 460/7
	c) Latitude of Dam	: 21°24'12.727"N
	d) Longitude of Dam	: 75°29'13.784"E
<b>II</b>	<b>HYDROLOGICAL DATA</b>	
<b>1</b>	<b>Catchment area</b>	
	a) Gross area	: 25.03 Sq.Km
	c) Unintercepted Area	: 25.03 Sq.Km
	d) Topography	: Hilly
	e) Wooded/Partially wooded	: Partially wooded
<b>2</b>	<b>Rainfall</b>	
	a) Average Annual Rainfall	: 825.56 mm
	b) 75% Dependable Annual Rainfall	: 659.50 mm
<b>3</b>	<b>Yield</b>	
	Average Annual Yield	: 4.74 MCM
	75% Dependable Annual Yield	
	a) Gross Yield	: 3.41 MCM
	c) Net water available for Irrigation	: 3.41 MCM
<b>III</b>	<b>FLOOD</b>	
1	Maximum observed	: Not Observed
2	Maximum discharge	: 257.38 Cumec
<b>IV</b>	<b>RESERVOIR DATA</b>	
1	Gross Storage Capacity	: 3.41 MCM
2	Dead Storage Capacity	: 0.45 MCM
3	Live Storage Capacity	: 2.96 MCM
4	Minimum Draw Down Level Capacity (MDDL)	: 0.55 MCM
5	Lowest Nalla Bed Level (NBL)	: 382.84 m
6	Lowest Sill Level (LSL)	: 395.10 m
7	Minimum Draw Down Level (MDDL)	: 395.85 m
8	Full Reservoir Level (FRL)	: 405.30 m
9	Maximum Water Level (MWL)	: 407.30 m
10	Top Bund Level (TBL)	: 409.30 m
11	Water Spread Area at (FRL)	: 47.55 Ha
<b>V</b>	<b>DAM</b>	
1	Type of Dam	: Earthen Dam
2	Length of Dam	: 400.54 m
3	Maximum Height of Dam	: 26.46 m
4	Top Width of Dam	: 6.00 m

5	Surplusing Arrangement	
	(a) Type of waste weir/ spillway	: Flush Bar
	(b) Length of waste weir	: 67.00 m
	(c) Maximum discharge of waste weir	: 257.38 cumecs
VI	CANAL	
1	Length of Main Canal	: 6.800 km
2	Length of Minor 1 Canal	: 0.654 km
3	Length of Minor 2 Canal	0.813 km <del>2.112 km</del>
4	Length of Minor 3 Canal	0.655 km
6	Designed Head discharge :-	0.8530 cumecs
7	Delta (GIR)	
	(A) Kharif (a) Cotton(1KH)	: NIL
	Total	: NIL
	(B) Rabi (a) Wheat (Hy.)	: 500.00 mm
	(b) Wheat (Ord.)	: 450.00 mm
	(c) Gram	: 150.00 mm
	Total	: 1100.00
8	Area Commanded (Agricultural Statistics)	
	(h) Designed Irrigation (Total ICA)	: 533 Ha
	(a) Kharif	NIL
	Total	: NIL
	(b) Rabi	
	(a) Wheat 2MV	: 125 Ha
	(b) Wheat OLYV	: 262 Ha
	(c) Gram S2 RA	: 146 Ha
	Total	: 533 Ha
i	Intensity of Irrigation	
	Kharif	: NIL
	Rabi	: 100 %
	Total	: 100 %
VII	SUBMERGENCE	
i	Total Area at FRL	: 47.55 Ha
ii	Cultivated Area	: NIL
iii	Pvt. Land	: NIL
iii	Government Land	: NIL
iv	Forest Area (Reserve)	: 47.55 Ha

  
Sub Engineer

  
Sub Divisional Officer  
Water Resources Sub Division  
Sendhwa

  
Executive Engineer  
Water Resources Division  
Barwani