

Storage Tank at Mamdapur, Tal: Yeola, Dist: Nashik

FEATURES OF THE SCHEME

A Location

1 Nearest village	: Mamdapur
Taluka	: Yeola
District	: Nashik
2 Toposheet No.	: 46 L/12
Latitude	: 20 ⁰ 09' 10"
Longitude	: 74 ⁰ 40' 06"
3 Name of Nalla	: Local Nalla
Tributory of River	: Tapi
Falls in C.A. of	:
4 Scheme falls in	: D.P.A.P. Area

B Hydrology

1 Catchment area	: 18.00 Sq. Km
Nature of C.A.	: Good
2 R.G. station & Distance	: Yeola 30 Km
50% dependable rainfall	: 487.00 mm
3 50% dependable yield	: 1963.80 TCM.
4 Proposed utilisation of yield	: 1010.29 TCM.
5 Crop pattern proposed	
Kharif crops	: 40%
Rabi crops	: 100%
6 Ev. Losses in a year	: 227.45 TCM.
7 Silt pocket	: 324.00 TCM.
Assumed life	: 60 Years
Assumed silting rate	: 6 Ha-m/100 sqkm/year
8 Gross storage	: 1010.29 TCM.
Live storage	: 686.29 TCM.
9 Yield required for irrigation	: 452.96 TCM.
10 Basic irrigable area	: 116.00 Ha

C Levels

1 Nalla bed level	: 86.85 m
2 Sill R.L.	: 93.36 m
3 Full Supply Level	: 97.50 m
4 High Flood Level	: 100.00 m
5 Top of Hearting	: 101.00 m
6 Top of Dam	: 101.50 m

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D	<u>Earthen Dam</u>	
1	Length (Earthen Portion)	: 220.00 M
	Chainage	: ,0 m to 220 m.
2	Max. Height	: 14.95 M
	Chainage	: 160.00 M
3	Top width of casing	: 3.00 m
	Top width of hearting	: 3.00 m
4	Slopes	
	Casing U/S TBL to 10 m	: 2.5:1
	10 to SGL	: 3.0.:1
	Casing D/S TBL to 10 m	: 2:1
	10 to SGL	: 2.5:1
	Hearting U/S & D/S	: 1:1
5	Berm Width D/S side	: 5.00 M
	Berm Width U/S side	: 0.00 M
6	Positive C.O.T. chainage	: 0 m to 160 m.
7	Rock toe chainage	: 0 m to 160 m.
8	Drains chainage	: 0 m to 220 m.
9	Rivetment chainage	: 0 m to 220 m.
		:
E	<u>Surplusing works</u>	:
1	Max. flood discharge	: 530.33 Cumecs
	worked out by	: Inglis formula $125 \times A^{\wedge}$
	value of C	: 1.70
2	Waste weir type	: C.O.F.Type
	Length	: 79.00 m.
	Chainage	: 0 m to -79 m
3	Formation level in approach	: 96.88 m.
	Formation level in tail	: 96.67 m.
	Bed slope in T.C.	: 1:100
	Velocity in T.C.	: 4.36 m/sec
	Width and length of T.C.	: 79 m & 105 m
		:
F	<u>Regulator and Canal</u>	:
1	Head Regulator type	: Sluice Valve Type
	Chainage	: 150 M
2	Culturable Command Area	: 145 Ha
3	Irrigable Command Area	: 116 Ha
		:

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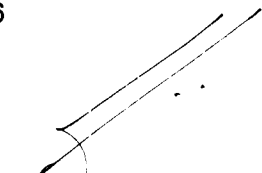
G Estimated Quantities

1 Land acquisition area	:	28.60 Ha
Forest land		28.60 Ha
Jirayat land		0.00 Ha
Bagayat land		0.00 Ha
2 Earthwork in casing		26238 Cum.
Earthwork in hearting		24477 Cum.
Earthwork in C.O.T.		8262 Cum.
Total earthwork		58977 Cum.
3 Excavation in Approach & Tail		
Soil & Soft murum	:	2080.00 Cum.
H.M. & H.M.B.	:	1726.00 Cum.
S.R.	:	9006.00 Cum.
H.R.	:	1760.00 Cum.

H Financial

1 Net cost Work Portion	:	357.86 /-
Forest NPV, Centage charges €	:	287.78 /-
Gross cost	:	645.64 /-
2 Cost/TCM	:	63906 /-
3 B.C. Ratio	:	1.26


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