

## Project Note

### NAME OF WORK: CONSTRUCTION OF MINOR IRRIGATION SCHEME

Manekhind M. I. Scheme, Tal. Shahapur, Dist. Thane

### GENERAL REPORT

The proposed Minor Irrigation Scheme is located across a local nalla near village Manekhind, Tal. Shahapur, Dist. Thane. The village Manekhind is located @ a distance about 44Km. away from Shahapur. The proposed dam site is about 1.5 km. From village Manekhind and situated on the in village Manekhind. The dam site Latitude  $19^{\circ}-25'00''$  and longitudinal  $73^{\circ}-33'00''$  with the reference of Topo sheet is 47E/11.

The proposed Manekhind M.I. Scheme is earthen dam, waste weir, R.C.C. Well Type H.R. on the local nalla having 2.745 km. R.B.C. & L.B.C. 1.92 km is proposed to irrigate 160 Hectar of land. There is no scope for considering alternative site considering the storage and other aspects.

### LAND ACQUISITION

For this scheme both the private and forest land needs to be acquired. Soil & Water conservation Division, Kalwa, Thane has inspected the proposed site. The proposal for acquisition of 25.554 Ha. Forest land and 2.777 Ha. Non Forest Private land will be submitted for approval to the D.F.O. Office & S.L.O. after Scheme is administratively approved.

### HYDROLOGY

The Catchment area is 3.624 Sqkm. The catchment area is hilly and free with very good yield.

### RAINFALL

The rainfall data has been collected from the nearest rain gauge station at Shahapur. The 50% dependable rainfall is 259.50 cm. & yeild is 6716.54 Tcum. Gross Storage is proposed 1289.40 Tcum

**Proposal for diversion of 25.554 Ha. Forest land under Forest (Conservation) Act, 1980 for Construction of Manekhind Minor Irrigation Scheme at Village Manekhind Taluka Shahapur District Thane in the State of Maharashtra**

**EARTHEN DAM**


(21)

The proposed length of Dam is 3110 m. and maximum height of Dam in gorge portion is 25.570 m. The earthen dam consists of hearting and casing in impervious and previous soil respectively. The Top width of dam is 4.5 m. H.F.L. is 96.50 m. and F.S.L. is 95.50 m. is proposed on either side level. Hydraulic gradient is taken from F.S.L. With slope of 1:1 casing & 2:1 in hearting. Bottom width of C.O.T. is proposed 5.00m with 0.60m depth in H.R. The R.C.C. Well type H.R. is provided With R.C.C. Conduit is proposed as per approved C.D.O. design for similar proposal previously. Sufficient numbers of trial pits are taken on dam alignment, quarry site location to ascertain the strata. It is ascertained that sufficient quantity of hearting & casing material is available with a lead of 0.3 & 0.5 km. from Quarry in submergence.

Date :

Place : Thane.

  
District Water Conservation Officer  
Soil & Water Conservation Department  
Kalwa, Thane



**Proposal for diversion of 25.554 Ha. Forest land under Forest (Conservation) Act, 1980 for Construction of Manekhind Minor Irrigation Scheme at Village Manekhind Taluka Shahapur District Thane in the State of Maharashtra**

22

**ADDITIONAL INFORMATION AS PER GOVT. LETTER**

**DATED : 22/25-2-83**

Name of Work:- **Manekhind M. I. Scheme**, Tal. Shahapur, Dist. Thane

a.	Total catchments area	:	1.400 Sq.Kms.
b.	Full Reservoir Level	:	95.50 m
c.	Total command area	:	160 Ha. (ICA)
d.	High flood level	:	96.50 m
e.	Minimum water draw down level (Sill RL)	:	77.70 m
f.	Max. Height of dam	:	25.570 m
g.	Total No. of family benefited (population)	:	1500 Souls
h.	Total Submergence area of dam in Hectors and its break up Forest land and other land.	:	<b>25.554 Ha. Forest</b> <b>2.777 Ha. other i.e. Non Forest</b>
		Total	<b>28.331 Ha.</b>

Sr. No.	Item of Work	Name of Village	Forest land Required					
			Survey No.	Comp. No.	L x W	Area in Sq.m	Area in Ha.	Type of Forest
1	2	3	4	5	6	7	8	9
1	Dam Seat	Manekhind	93		71x75	5325	0.5325	R.F
					32x40	1280	0.1280	P.F
		A pate	272		36x30	1080	0.1080	P.F
			203A		160x46	7360	0.7360	P.F
			274		162x85	13770	1.3770	R.F
					<b>Total</b>	<b>2.8815</b>		
2	Tail Channel	A pate	274		221x30	6630	0.6630	R.F
			203A		73x30	2190	0.2190	P.F
					<b>Total</b>	<b>0.8820</b>		
3	Submergence	Manekhind	93		475x83	39425	3.9425	R.F
		A pate	274		550x160	88000	8.8000	R.F
			203A		40x34	1360	0.1360	P.F
			272		7x15	105	0.0105	P.F
		Ambekhor	<del>122</del>		660x52	34320	3.4320	R.F
					<b>Total</b>	<b>16.3210</b>		
4	Right bank Canal	Manekhind	93		645x15	9675	0.9675	R.F.
			64/1		76x15	1140	0.1140	Restored Private Forest
			87		395x15	5925	0.5925	P.F.
			86A		153x15	2295	0.2295	P.F
			86A		250x15	3750	0.3750	P.F
					<b>Total</b>	<b>2.2785</b>		
5	Left Bank canal	Manekhind	93		33x15	495	0.0495	R.F
			57		83x15	1245	0.1245	P.F



**Proposal for diversion of 25.554 Ha. Forest land under Forest (Conservation) Act, 1980 for Construction of Manekhind Minor Irrigation Scheme at Village Manekhind Taluka Shahapur District Thane in the State of Maharashtra**

23

		Apate	203A	737.34x15	11060.1	1.1060	P.F
			274	190x15	2850	0.2850	R.F
			254	480x15	7200	0.7200	R.F
			253	60x15	900	0.0900	P.F
					<b>Total</b>	<b>2.375</b>	
6	Chowki	Apate	274	60x40	2400	0.2400	R.F.
					<b>Total</b>	<b>0.2400</b>	
7	Approch Road	Apate	203A	265X10	2650	0.2650	P.F.
			274	311X10	3110	0.3110	R.F.
					<b>Total</b>	<b>0.5760</b>	
<b>GRAND TOTAL</b>					<b>255540.10</b>	<b>25.554</b>	

Date :

Place : Thane

*[Signature]*  
District Water Conservation Officer  
Soil & Water Conservation Department  
Kalwa, Thane

*[Signature]*