



N  
W E  
S  
SCALE 1 : 25,000

**STRATA DETAILS (AVERAGE)**

Sr No.	CHAINAGE (K.M.)	SOIL	S.M. (M.)	H.M. (M.)	H.R. (M.)
1	00 TO 17	3	-	-	-
2	18 TO 27	0.50	1.50	1.00	-
2	28 TO 34.952	0.30	0.50	0.90	1.30

**AREA STATEMENT**

Sr No.	PARTICULAR	AREA IN HA (G.C.A.)	AREA IN HA (C.C.A.)	AREA IN HA (I.C.A.)
1	D.C.1	8600.86	7167.38	5733.90
2	D.C.2	6396.47	5330.39	4264.31
TOTAL AREA		14997.32	12497.77	9998.21

**LENGTH STATEMENT**

Sr No.	PARTICULAR	LENGTH IN K.M.
1	PH. TO DC-1	22.740
2	DC-1 TO DC-2	12.212
TOTAL LENGTH		34.952

**PROPOSED RISING MAIN DETAILS**

SR NO.	PARTICULAR	SYMBOL	LENGTH IN KM.
1	Rising Main		34.952

**GPS-Co-ordinates**

Sr.No.	Name	Longitude	Latitude
01	Pump House	75° 4'9.55"E	19°36'35.90"N
02	D.C.-1	75° 5'15.31"E	19°48'13.87"N
03	D.C.-2	75° 3'12.43"E	19°54'17.28"N

**Brahmagavhan Lift Irrigation Scheme (Part-III)**  
Tal. Gangapur Dist. Aurangabad

**Salient Features**

Sr.No.	Particulars	Unit	Stage-I	Stage-II	Total
1	Location of project	-	Old Lakhmapur village, Tal. Gangapur	-	-
2	Latitude	-	19°39'0.36"	-	19°39'0.36"
3	Longitude	-	75°03'23.04"	-	75°03'23.04"
4	Discharge	Cumecs	4.0917	2.250	6.3417
5	Area irrigated (C.A.)	Ha	4500	4500	9000
6	Length of rising main	Meter	21780	18000	39780
7	Diameter of rising main (M.S. pipe commercial type)	mm	1580	1170	-
9	Thickness of pipe for rising main	mm	9	7	-
10	No. of rows of rising main	No.	1	1	-
11	Static head for rising main	Meter	33.710	35.400	-
12	Frictional head for rising main	Meter	41.030	32.720	-
13	Total head for rising main	Meter	74.740	68.120	-
14	Pump efficiency	%	89%	80%	-
15	No. of pumps	No.	5	4	10
16	H.P. provided	H.P.	5080 (3016X35)	2600 (6500X4)	-
17	Velocity	m/sec	2.080	2.093	-
18	Water utilization	Nm <sup>3</sup>	55.000	-	-
19	Maximum Water Level (M.W.L.)	Meter	465.590	501.500	-
20	Full Reservoir Level (F.R.L.)	Meter	463.910	501.500	-
21	Minimum Drawdown Level (M.D.L.)	Meter	455.520	498.500	-
22	F.S.L. in DC	Meter	501.500	538.600	-
23	Method of Irrigation	-	LRRI	-	-
24	No. of beneficiary villages	Nm	11	-	-
25	Total cost of project	Rs.	Rs. 426,26,20000	-	-
26	Benefit-Cost (B/C) ratio	-	1.24	-	-
27	Economic Rate of Return (E.R.R)	%	17.077	-	-

**REFERENCES**

SR NO.	PARTICULAR	SYMBOL
1	Rising Main	
2	Command Boundry	
3	Eco-Sensitive Zone	
4	Pump House	
5	Delivery Chamber	
6	M.I. Tank	
7	River & Nalla	
8	State Highway	
9	Roads	
10	Government Land	
11	Uncommand Area	
12	Gaathan	
13	M.I. Tank Command Area	
14	House, Well	
15	M.I. Tank	
16	Shet Talav	

**GOVERNMENT OF MAHARASHTRA**  
**GODAVARI MARATHWADA IRRIGATION DEVELOPMENT - AURANGABAD**  
**AURANGABAD IRRIGATION CIRCLE, AURANGABAD**  
**MINOR IRRIGATION DIVISION NO. 01, AURANGABAD**

**BRAMHAGAVHAN LIFT IRRIGATION SCHEME**  
**PART-III INDEX MAP**

TALUKA : GANGAPUR DISTRICT : AURANGABAD

Checked by: Assistant Executive Engineer, Minor Irrigation Sub-Division No.1, Aurangabad. Executive Engineer, Minor Irrigation Division No.1, Aurangabad.

Drawn by: Supervising Engineer, Aurangabad Irrigation Circle, Aurangabad. Chief Engineer, (WR) Water Resources Department, Aurangabad.