

SALINITY CONTROL DIVISION, BHAVNAGAR

Name of work: Methala Bandhara across River Bagad near village Methala in Talaja Taluka of Bhavnagar District

BENEFIT-COST RATIO

Data used in calculation of B.C.Ratio.

As per the HLC-II report for Bhavnagar-Una reach, pg. No. 127, Table_15.1, considering 5 hac/ MCFT 3275 Hectors area will get assured irrigation by lift irrigation, { Storage capacity **655 MCFT** & Area benefitted is **6550 Ha.**)

A. Annual Benefits :

1	Area getting assured irrigation by Lift Irrigation will be 3275 Ha. @25378 /- Rs/ Ha.	831.130	Lacs
2	50% of Balance area will be put to normacy at the rate of 75% 0.5 X (6550-3275) = 1637.50 Ha. @ Rate (0.75 X 25034) = Rs. 19033.50 /-	311.674	Lacs
3	Remaining 50% of Balance area will be put to normacy at the rate of 50% 0.5 X (6550-3275) = 1637.50 Ha. @ Rate (0.50 X 25034) = Rs. 12689/-	207.782	Lacs
Total Rs.		<u>1350.585</u>	Lacs

B. Expenditure :

Construction Cost of the project estimated

Rs., 13640.65 Lacs

Annual Expenditure

1	Interest @ 10% of the estimated cost	1364.065	Lacs
2	M & R charge @ 1.50% of the estimated cost	204.610	Lacs
3	Depreciation @ 2% of the estimated cost	<u>272.813</u>	Lacs
Total Rs.		<u>1841.488</u>	Lacs

Benefit - Cost ratio will be

$$\frac{1350.585}{1841.49} = 0.73$$

say 0.75

Deputy Executive Engineer
Salinity Control Sub Division
Talaja

Executive Engineer
Salinity Control Division
Bhavnagar