


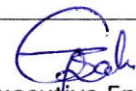
SARKULA LIFT IRRIGATION SCHEME

Tehsil - Pohari

Distt. – Shivpuri

S.No.	Particulars	Alternate-1	Proposed Site	Alternate-2
1	GENERAL			
	Name of project	Sarkula Dam	Sarkula Dam	Sarkula Dam
	Type of Project	Irrigation	Irrigation	Irrigation
	Location	Near Pohari	Near Pohari	Near Pohari
	River Basin	Chambal Basin	Chambal Basin	Chambal Basin
	Located on River	Sarkula River	Sarkula River	Sarkula River
	Tehsil	Pohari	Pohari	Pohari
	District	Shivpuri	Shivpuri	Shivpuri
	State	M.P.	M.P.	M.P.
2	HYDROLOGY			
	Catchment Area (Sq.km.)	131.79	131.25	132.338
	Intercepted catchment area (Sqkm.)	-	-	-
	Net Catchment Area (Sqkm.)	131.22	131.25	131.68
	Available Annual Yield at Dam site	0.215	0.215	0.215
	Liver Storage Capacity (MCM)	28.21	28.295	28.31
3	DESIGN IRRIGATION (Ha)	6500	6500	6500
4	SUBMERGRNCE DETAILS			
	Total submergence (ha)	332.88	311.082	354.182
	Private Land (ha)	69.492	69.492	69.492
	Govt. Land (ha)	124.35	124.35	124.35
	Forest Area ha. (Submergence + area required for various component of Project)	148.30	117.24+9.26=126.50	169.60
	Habitation	Yes	Yes	Yes
	Properties	27	27	27
	Submergence Ratio	5.12	4.79	5.45
	Total Cost (Crore)	229.89	226.62	233.085
	Cost per Ha. (Rs. In Lakhs)	3.54	3.48	3.60
	Techno Economis feasibility	Not feasible due to uneconomic al & more forest land	Economical & Feasible	Not feasible due to uneconomical & more Forest Area


 Sub Divisional officer
 Water Resources Sub Division No.2
 Shivpuri (M.P.)


 Executive Engineer
 Water Resources Division
 Shivpuri (M.P.)

COMMENTS ON ALTERNATIVE ALIGNMENT FOR DAM SITE

ALTERNATE DAM LINE NO. 1

Alternate Dam line No. 1 is located 350m below in D/S the finally selected site. Forest land 148.30 ha. affected from this proposal which is 21.80 ha. more than the finally selected site. Hence the proposal is not feasible in technical/financial point of view.

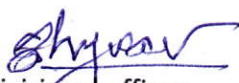
PROPOSED SITE


If we considered Dam Line-1 as a proposed site, the catchment area will occur sufficient to have that capacity which serves the potential of 6500 ha. of irrigation. The whole body of dam structure and component is in forest land. The proposal involved minimum forest land in submergence. Hence proposal is economical /feasible as per departmental norms.

ALTERNATE DAM LINE NO. 3

Alternate Dam line No. 1 is located 350m below in D/S the finally selected site. Forest land 169.60 ha. affected from this proposal which is 43.10 ha. more than the finally selected site. Hence the proposal is not feasible in technical/financial point of view.

As per above proposed site is best suitable ,economical / feasible as per department norms.


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JUSTIFICATION NOTE

A note containing justification for location of the project named Sarkula Medium Lift Irrigation Project. The latitude and longitude of the proposal site is 77°21'10"E and 25°31'17"N respectively. There is no alternate alignment above the proposed site because of reduction in live capacity, which lead to reduction in command area. Two nos. of alternate site namely alternate 1 & alternate 3 will consider which is 350m and 728m in D/S of proposed Dam respectively, are not feasible in view of increase in forest land with respect to live capacity. Therefore present proposal is most economical / feasible site with minimum submergence. It consist of earthen dam near Tehsil H.Q. Pohari on Sarkula river which has total catchment area 131.25 Sq.km. and irrigation served as 6500 ha. A DGPS survey has been carried out to achieve minimum submergence area and optimum project cost. For this purpose a detailed study of proposed dam line site has been done and finally decided. If we shift dam line that either decrease in capacity or unavailability of banks or higher the submergence area will occur. Therefore present proposal is best suitable site with minimum submergence area.


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