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## **APCHAND MEDIUM IRRIGATION PROJECT**

### **Brief Summary of the Project & Justification for locating Project in Forest land**

The Apchand Medium Irrigation Project proposed dam site is located across river Gadheri near village Apchand Tehsil Sagar, District-Sagar of Madhya Pradesh. The site is located on topo sheet no 55 I/13 with latitude 23° 47 '5.88" N and longitude 78°59'46.05" E. The site is situated about 30 km away from Sagar district headquarters.

There is no dependable water source in the Project area. At present irrigation in the project area from all sources is only 08.10 % of net cropped area. Since the area is dependent on rains, scarcity conditions exist all the time. Crop yields are very low. People in the area are poor. The Project area needs water for domestic and agriculture purposes. Studies carried out earlier show that some unutilized flows are available and the physiographic conditions of the site are also suitable for harnessing the water resources.

The local public representatives are well informed with the benefits of the project. Cost and benefit ratio has been calculated and is within the norms justifying the feasibility of this project. Also, provision for upstream and downstream utilization of water has been made in the project. After construction of this dam, 4830 Ha area will be provided with the Rabi irrigation facility. The drought prone land of 19 villages of Garhakota tehsil of Sagar district will be irrigated through pressurized pipe irrigation system. The project will also replenish the groundwater table of the region.

**As per department preliminary and detailed survey we have found the proposed site to be the most feasible and suitable for construction of the project with respect to technical, financial & social considerations. The comparative study of alternative alignment survey is tabulated below and the chosen alignment has the least forest submergence and if project is proposed on any other nearby site much more forest area will get submerged.**

Apchand Medium Irrigation Project district Sagar alternate alignments comparative description.


Apchand Medium Irrigation Project is proposed on Gadheri river near village Apchand of block Sagar, district Sagar (MP). In the year 2017 this project was taken into consideration, the Administrative Approval has been Sanctioned vide Memo No. 22/(A)/ 349-26/2018/MPS/31/1746 Bhopal, Dated 04/10/2018 Rs. 162.66 Crores by Govt. of M.P. Water Resources Department. The Project will irrigate 4830 ha area in Garhakota block of Sagar district.

The comparative details of alternate alignments study is tabulated below:-

S. NO.	ALTERNATE ALIGNMENT	GROSS CAPACITY (MCM)	TOTAL SUBMERGENCE (Ha)	FOREST SUBMERGENCE (Ha)	REMARKS
1	ALT 1	20.93	560.66	186.59	4 villages partially affected
2	ALT 2	20.93	581.42	195.75	
3	ALT 3	20.93	597.56	182.16	

The third alignment is the most appropriate for the construction of the project with respect to technical, financial & social considerations.

  
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