

KHATAMBA STOP DAM

Khatamba is one of the target villages under the Samruddhi Project. It is a large village located in Dewas Tehsil of Dewas District. It is located at a distance of 9 km from Dewas and 45 km from Indore near Indore-Bhopal Highway. A Stop Dam was constructed on a rain water drain flowing near the agricultural lands of 14 residents of Khatamba village in the year 2016. Earlier, the rain water simply flows through the village till the very end of



village without serving any purpose. Therefore, need of constructing a stop dam was assessed to store rain water and stopping it from flowing outside the village by closing the gates of the dam immediately after the monsoon season. The total cost incurred in the construction of this Stop Dam was Rs. 8,49,236. The stop dam helped in increasing the underground water table and recharged the nearby wells and tube wells which usually get dry in February but after the intervention it sustained till the peak summers.

The major benefit of the stop dam is that approximately 10000 cubic meter water could be accumulated which was used by the farmers for irrigation. Earlier, out of these 14 farmers; during Rabi season, 60% farmers used to grow wheat and remaining 40% would grow gram crop as it requires less water. However from 2016 – 17 all the 14 farmers have sown wheat crop due to sufficient availability of water as a result of this stop dam.

Cultivation of wheat is profitable venture for the farmers as cost of cultivation is less and profit margin is always greater as compared to gram crop but requirement of sufficient water for irrigation is essential. With the timely construction of Khatamba stop dam, farmers are determined to grow wheat in Rabi season due to sufficient water and eventually earn more profit.

Water table and crop production Data

There are total of 14 farmers who are directly benefited from construction of stop dam by using stored water for irrigating their crop through lift irrigation. 36.69 acre of land is coming under direct irrigation. Details of their cropping pattern, crop yield and net profit are given below-

S. No.	Year	Cropping Pattern on 36.69 acre of land.	Yield in Quintals	Income (INR)	Net Profit (INR)
1	2015-16 (Rabi)	22.1 acre wheat, 14.7 acre gram.	Wheat-386, Gram -102.9	887700	537516.5
2	2016-17(Rabi)	36.69 acre wheat.	770.5	1232800	833612.8
3	2017-18(Rabi)	36.69 acre wheat	697.2	1394400	984156

Sr. No.	Farmer	Structure	Water table as on 1st May 2016	Water table as on 1st may 2017	Water table as on 1st May 2018	Remark
1	Anokhi s/o Hate Singh	Dug well	1.5 Feet	2 Feet	3.5 Feet	Significant change observed.
2	Jai Singh s/o Parvat Singh	Dug well	Dry	Dry	1.5 Feet	Significant change observed.

Inference: Increase of 57% in income of 14 farmers from 2015 – 16 to 2017 – 18 has been observed. Net profit of the farmers was 537516.5 INR in 2015 – 16 which increased by 83%, i.e. 984156 INR in 2017 – 18.

Water table of Dug Well of 2 farmers are having 3.5 feet and 1.5 feet water as on 1st May, which is usually dried during this time of the summers. After the construction of stop dam, this is definitely a significant change which will have a positive impact in the long run.