

CASE STUDY-1

A Small Farmer Improved irrigation with Construction of Check dam

Name of the beneficiary : Jakkula Samba Raju
Father Name : Jakkula Sambaiah
Village : Kyatampalli village
Mandal : Dharmasagar , Hanumakonda
District of Telangana State of INDIA.

Personal history: Mr.Jakkula Samba Raju is a marginal farmer, having 2 acres of land which is available for cultivation. But the open well is providing less water for irrigation and every time below 1 acre is cultivating paddy with irrigation and remaining, he is growing dryland crops. Sometimes his crops were damaged or dried up due to less water. A stream which is a minor irrigation source in Kyatampalli village is passing near to his fields. It is a natural stream which flows with water mainly in rainy season. Nearly 40 to 45 small and marginal farmers having 60 -65 acres of land depended on this stream for irrigation source which increase the ground water level in the open wells and bore wells. In rainy season water flows in the stream and as there is no check dam the running water flows in the stream for 3 to 4 months depending on good rains. With this ground water will improve and water level increase in the open well which is used for irrigation of the crops .But most of the rain water flown in the stream goes away into the big lake at Dharmasagar village as there is no check dam to store the rainwater in the stream.



Though water is flown in the stream it is not much used by the farmers near to the stream except in rainy season some increase in ground water helps for irrigation. With the existing water the farmer is cultivating paddy in 1 acre of land in rainy season kharif first crop and .5 acre in rabi crop second season. The farmer has struggled hard by deepening the well for more water , but not able to succeed much to improve the irrigation. Farmer is having 2 acres of land but as there is less water available in open wells , farmer is not able to cultivate in his total land in first crop and second crop and use to dried up due to less yield of water in the open well. So, every year depending upon the good rains in the rainy season and flow of water in the stream and water storage in the open well Jakkula Samba Raju is able to cultivate paddy in his field.

Lodi & Andheri Hilfe /BMS project Initiation

After Andheri Hilfe-BMZ project implementation in Kyatampalli village the project staff has conducted series of meetings and farmers attended training program on soil and water conservation measures and water harvesting management participated and farmers have come to know about project activities and improvement of irrigation sources for agriculture. After trainings and meetings, they were approached Mrs.Jyosna (Community organizer) and enquired about the construction of check dam on the stream passing through their fields in Kyatampalli village .The community organizer and technical coordination visited the stream and analysed the situation and arranged meeting with farmers near to the stream.



Mr. Arla, Technical coordinator & community organizer Mrs.Jyosna explained process of construction of check dam and user group members and committee formation for planning implementation, follow up and maintenance of the check dam, local contribution, user group and village panchayat members acceptance letter to construct the check dam. After that the user group members and committee and village panchayat members given acceptance letter to Lodi MSSS and requested for construction of Check dam at the site selected place on the stream. Finally, the user group farmers came together and agreed our conditions and the user group took the initiation and collected the local contribution and necessary process completed. Then we have finalized and discussed with user group and constructed check dam on the stream at Kyatampalli village. The user group members and panchayat members monitored the check dam work and Lodi MSSS has constructed the check dam.

Impact: We have completed the check dam in the month of November 2024. In July, August & September 2025 heavy rains fallen and this check dam was filled for three to four times and water was overflowed and water is stored in the stream. With these surrounding open wells, bore wells were recharged and ground water level increased and water level in open wells and borewells has increased. Mr. Jakkula Samba Raju open well also increased water level up to 2 metres and has cultivated paddy in 2 acres of land in Kharif first crop and 1.5 acre of land in Rabi second crop. With this he has cultivated additional land in two crops in a year and enhanced yield and income from paddy crop. This was possible with the

construction of check dam and water storage is increased in the stream and his open well was recharged and more water is available in the open well to cultivate paddy in two seasons two crops .With this the farmer and his neighbouring farmers also felt happy for the improvement of irrigation source. And other farmers also increased their water table in their open and bore wells and increased their irrigation to cultivate paddy.

Through the Construction of Check dam,farmershave increased irrigation for two crops in a year. They realized the Check dam importance and seen positive impact on irrigation water. Now with the irrigation and recharging ground water farmers are cultivating in more land in second crop also.

Conclusion: Now Jakkula Samba Raju farmer and other farmers has improved their irrigation and benefitted withthe Check dam and living confidently with support and cooperation of Andheri Hilfe/BMZ/Lodi MSSS project. The farmers of Kyatampalli stream have expressed whole hearted thanks to Andheri Hilfe/BMZ Germany for the support& generous help.