

# Enhancing **Agricultural Productivity** by Using Diversion Drain

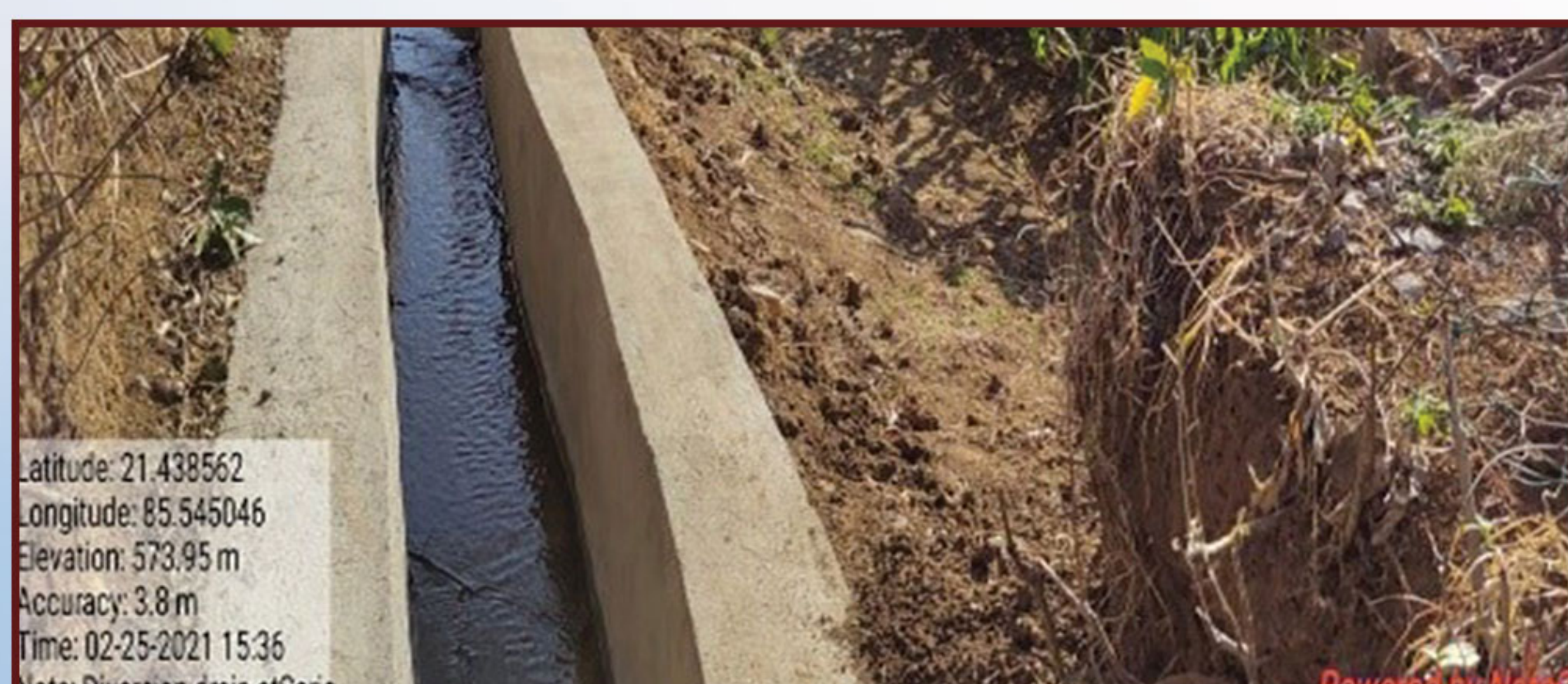
A diversion drain is a channel constructed on the high side of a site to divert surface runoff from rain water, Stream water that would otherwise flow down onto the disturbed or active work area.

Saria village of Baragarh GP under Banspal Block of Keonjhar District is one of the PVTG villages under Juanga Development Agency, Gonasika is fully surrounded by Natural Resources and with Tribal People. There are 94 families living in this village. Out of these 90 Juanga household are residing in this village. This village is situated 46 km distance from block and 45 km distance from the district head quarter



Around 43 Nos. of farmers used to cultivate only upland paddy in kharif over 45 ha of land by sowing method. As there was no source of irrigation facilities, the farmers were facing drought due to erratic rain fall and scarcity of water during September-October which is very crucial period for ripening stage. The land was laying barren after monsoon. They never hope to take double crop. Survive of kharif crop was also challenge for them. They were harvesting 5-6 quintal per acre of land.

Keeping in view of the above challenges, the Special Officer, JDA, Gonasika instructed the team to visit the village and discussed with the farmers regarding creation of irrigation source in order to provide protective irrigation over 12 ha cultivable land.



**PROGRAMME ACTIVITIES:** A village meeting was conducted to identify a need base activity for the livelihood development. VDA members demanded to create irrigation facilities, so that 36 ha of land can be cultivated throughout the year. Basing on their demand both JE of MPA and FNGO surveyed and reported that the site is feasible for construction of diversion drain as there was a perennial source above the head of the land. The JE briefed regarding the construction of diversion drain under RKVY and its utility towards protective irrigation to rainfed land. The villagers finalised to take up the projects i.e. construction of diversion drain having approved project cost of Rs.5,40,000/- and approved the resolution of VDC. The VDC advised to open a separate account for RKVY purposes. The JE prepared a plan & estimate for construction of the project having estimated cost of Rs.5,40,000/- for construction of diversion drain . Finally 300 mtr Diversion drain was constructed during 2020-21 with expenditure of Rs,5,40,000/-.





✓ **On Self:**

The farmers got self-employment in their own village and recognised as successful PVTG farmers in this Locality.

✓ **On family:**

The farmers harvest crop for consumption of food for their family members throughout the year.

✓ **On Village community:**

Seeing the benefits of this Diversion Drain villagers are happy on the Project.

✓ **Other Village:**

Other nearest villages are encouraged and planned for this type of activity.

**IMPACT :**

Farmers in the village were benefitted by irrigating 12 ha. of land after monsoon. During construction of diversion drain the earth work have been contributed by the stake holders. The VDC members monitored and successfully completed the work. For the protection and the smooth management of the Project, a User Group has been constituted. Now project has been completed and 43 farmers are cultivating Paddy in 25 hectors area and they can get to harvest 7 – 8.5 quintal per acre. Now the VDA has prepared a plan to take second crop in Rabi like Cabbage, Cauliflower, Brinjal, Radish, Tomato, Potato etc. After their own consumption, they hope to earn Rs.50,000/- profit from this cultivation in a season.

