1. Title :- Enhancement of production and productivity of tomato crop through poly mulching and drip irrigation .
2. Back ground :- Tomato is a commercial crop which is grown in 900 ha area in the Sagar district. Due to scarcity of water particularly in the month of February & onwards along with weed infestation is limiting factor for lower production of tomato in the district & in Kanjera village total production on an average production is 250q/ha and 350-400 q/ha respectively .

   Previously farmers of the village Kanjera of Keshli block of the district generally tomato crop grown in flat bed system with normal cultivation of package. Some of the farmers of the kanjera villages Shri Omkar Patel, Parmeshwar Patel, Rajkumar Patel, Mukesh Patel & others are first time contact with KVK through DPIP, Programmes in the previous year. Then the KVK Scientist promote & aware to those farmers for adopting the use of plasticulture & drip irrigation technology to increase the production and Productivity of Tomato crop .

3. Description of technology :- In this technology covering the soil around the plant s with plastic film to conserve soil moisture prevents weeds and modify soil moisture. Planting of 25 days disease free seedling on ridge bund after mulching is done with white polyethylene sheet of 25 micron (100 gauge ) along with drip irrigation system. After planting of the tomato seed lings in particular hole irrigation & fertilizers provided through drip system to save the water .

   Increase yield by about 30-50%.

4. Success point .
   1. Moisture conservation & water saving 30-70%.
   2. Save on Fertilizer cost and pesticides cost.
   3. Prevent weed growth .
   4. Improve the quality fruit & more market value.
   5. Lead to better root development and clean crop.
   6. Effective in dry land farming .
5. Dissemination Process:- scientist of the KVK with the help of frequently field visited of Kanjera villages and aware & promote to the farmers to adopt this technology through trainings, live demonstration were laid down on femers field with the financial support & field staff of DPIP. Farmers has been aware & adopted this technology through seeing & believing approache also .
6. Institute involved :- technology provided & guidance by Krishi Vigyan Kendra, Sagar to the farmers of Kanjera villages with the help of DPIP,Sagar.

**1.** Out come :- Tomato cultivation done by farmers in the month of June - July & February - March to achieve the higher yield up to 750 -800 q/ha on an average. Out of which availability of tomato increased and farmers income also increased .

7. Impact :- At present total 28 -30 farmers has been already adopted this technology & getting more then 4 - 4.5 Lakh/ ha income. Apart from this other near by villagers also benefited by seeing and believing. Gradually other farmers of the Distt. also adopted the Mulching & Drip Irrigation System .