## Technology No. 3

# A METHOD FOR RECLAMATION OF SALT EFFECTED SUGARCANE FIELDS THROUGH SUB-SURFACE DRAINAGE SYSTEM AND AQUACULTURE

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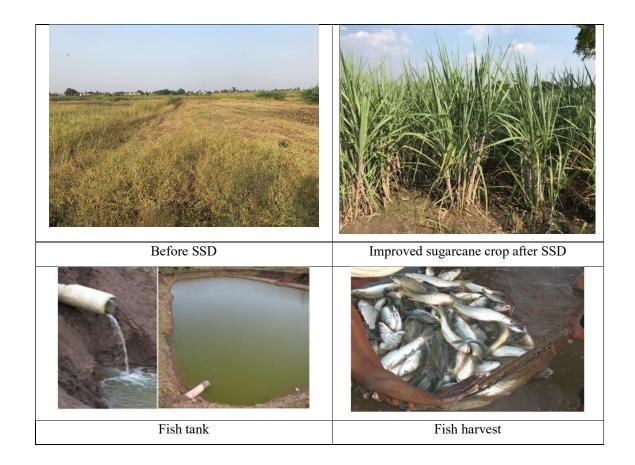
#### **Technical details:**

The technology relates to the development of a sub-surface drainage (SSD) system connected to an aquaculture pond, wherein the sub-surface drain water enhances the natural productivity of fish. Further, to install a sub-surface drainage system it is necessary for the soil to be permeable along with the gravity or availability of any artificial system. Implementation of innovative integrated technology for reclamation of salt-affect sugarcane fields through aquaculture and sub-surface drainage system will enhance the sugarcane production from the existing average production of 15 tonnes to 50 tonnes per 0.4 ha. The soils get its original status and help to achieve sustainable production of sugarcane which improves socio-economic condition of farmers and avoid migration of farmers.

### Salient features of the technology:

- This technology overcomes the hurdle of high cost and also the wastage of land.
- In the instant system, the salts are leached at a faster rate (it requires less than one year to leach out excess salts from soil), into the aquaculture pond which is close to the system and is an integral part within the experimental field.
- Water collected in the pond is utilized for culture of fish which provides substantial additional income to the farmers.
- It also enhances the growth of vegetation and improves the soil environment.

Transferred to Maharashtra, Pune, Satara, Sangli and Kolhapur through training and installed sub surface drainage system through pilot scale project (NAIP)



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