

INNOVATIVE PRACTICES

➤ *Slag based Gypsum and its Utilization in Agriculture*

Slag-based gypsum (SBG) is first kind of gypsum produced from steel industry slag by acid treatment which is also a rich source of calcium, magnesium, sulphur in addition to silicon and other micronutrients. Having limited sulphur resources in India and other countries, sulphur fertilizers would become more and more expensive in the future and we may have to import. Hence, SBG bi-products from steel industry could be better alternative gypsum source.

Technology: Application of 300-750 kg SBG per hectare significantly increases the yield

Impact: Applied for grant of patent (Application No. 202131002666) along with the scientists of Tata Steel Limited, Jamshedpur.

➤ *Chemical Free/ Organic Jaggery Preparation*

The technology for preparation of chemical free/ organic jaggery was developed and it can be produced both in balls and powder form.

- ✓ 10 training programs were organized (Participants from within the district, Inter-state and International (Australian) scientists and farmers)
- ✓ Farmers from 300 jaggery units of Southern districts and from other states have visited the center
- ✓ Two Start-ups were started during 2020

➤ *Karnataka's Maiden Fish Nile Tilapia/ GIFT seed hatchery*

- ✓ UASB has the State's maiden and the only hatchery for Genetically Improved Farm Tilapia
- ✓ 34,530 all-male seeds of GIFT fish were sold to the farmers

➤ *Freshwater Pearl Culture*

- ✓ Started with funding by National Fisheries Development Board, Hyderabad. Now, it is a Paid programme
- ✓ One of the very few organizations providing hands-on training on freshwater pearl culture in the country
- ✓ 18 National Hands on Training Programs were conducted, benefitting 243 trainees from 9 States. There were more than 500 aspirants from different States.