

Sponsored Sugar beet Research Projects

Indian Council of Agricultural Research (ICAR) Network projects on developing agro-techniques for Tropicalized Sugar beet in India

- **Title: Effects of dates of sowing and varieties in winter season on yield and quality of sugar beet**
Conclusions: Significantly higher germination % was recorded in November 1st fortnight compared to 2nd fortnight. The variety HI 0064 was superior with regard to root yield as well as pol %.
- **Title: Effects of nitrogen levels on yield and quality of sugar beet in winter season**
Conclusions: The application of Nitrogen @120Kg/ha recorded significantly superior root yield over rest of the nitrogen levels.
- **Title: Scheduling of irrigation for varieties of sugar beet grown in winter season**
Conclusions: The irrigation level at 75 mm CPE produced significantly higher root yield over the 60 mm CPE and 50 mm CPE, respectively.
- **Title: Effect of dates of sowing and varieties in summer season on yield and quality of sugar beet crop**
Conclusions: Variety Posada recorded significantly superior germination. Dorotea and IISR Comp-1 were at par and significant over LS-6 & HI0064. The interaction between dates of sowing and varieties were found to be non-significant.
- **Title: Effect of methods of sowing and intra row spacing on yield and quality of sugar beet**
Conclusions: The flat bed sowing at 0.50 m row to row and 20 cm intra row spacing found suitable for getting higher beet and sugar yield in HI 0064 in winter sown crop.
- **Title: Varietal trial on sugar beet hybrids (5 hybrids)**
Conclusions: At 180 DAS maximum pol, brix, purity and gross sugar were obtained in HI 0064, which was reduced if harvested before and after 180 days (i.e. at 150 & 210 days after sowing).
- **Title: Preliminary varietal evaluation of sugar beet hybrids (24 hybrids)**
Conclusions: IN- 06 and IN- 13 found superior in regard to growth, yield and quality parameters.
- **Title: Effect of methods of sowing and Tropicalized sugar beet varieties on yield and quality of sugar beet (Summer)**
Conclusions: The sugar beet crop sown on a raised bed at 0.40 m row distance with a variety, HI0064 found most suitable for achieving the good growth, yield and quality of sugar beet in summer season.

- Title: Integrated nutrient management in sugar beet**
Conclusions: The maximum root & foliage wt., root yield, pol and purity was obtained with application of FYM @ 10 t/ha + recommended dose of NPK (120:60:60 Kg/ha).
- Title: Integrated weed management in sugar beet**
Conclusions: The minimum weed count and weed dry matter along with maximum germination, root & foliage wt., No. of roots, root yield, pol and purity was obtained in the pre emergence spray of Rifit @ 2Kg a.i./ha + one manual weeding at 30 DAS.
- Title: Advanced varietal trial on sugar beet hybrids (6 hybrids)**
Conclusions: Sugar beet varieties HI 0064 and LS- 6 noticed suitable in winter season considering the yield and quality attributes.
- Title: Preliminary varietal evaluation of sugar beet hybrids (34 hybrids)**
Conclusions: Amongst the new hybrids, IN- 06 and IN- 13 have noticed superior in regard to growth, yield and quality parameters.
- Title: Varietal trial for screening of sugar beet hybrids against diseases (28 hybrids)**
Conclusions: SYT- 04 and SYT- 07 were noticed superior in regard to growth, yield and quality parameters in new hybrids of sugar beet.
- Title: To work out the cost of sugar beet cultivation and its economics under different cropping systems of the area**
Conclusions: The sugar beet cultivation cost amounts to RS. 38491.00/ha (Rs. 15576.00/acre). Considering the average yield of HI0064 as 85 t/ha and sugar beet price as Rs. 850/tons the B:C ratio of sugar beet comes to 1:1.86.
- Title: Confirming the package of practices for sugar beet cultivation for Tropicalized region in winter season**
Conclusions: Sugar beet crop sown in the 1st fortnight of Oct. with application of 10 t. FYM and 120:60:60 Kg. NPK/ha found excellent. Weed control by pre emergence spray of Rifit @ 2 Kg a.i./ha + one manual weeding at 30 DAS. HI 0064 recorded the maximum yield, pol and purity.
- Title: Evaluation of new tropical sugar beet genotypes under peninsular zone of Maharashtra.**
Conclusion: Genotype SV-SCLE-1 gained maximum root yield (109.88 t/ha) at 180 DAS. Superior juice quality parameters like brix (23.95 %), sucrose (18.16%) was found in genotype SZ 35 and CCS (12.13%) was noted in SV-SCLE-2 at 180 DAS. Incidence of sclerotium rot and *Spodoptera spp.* was also observed. 7-10% incidence of sclerotium rot was observed under genotype SZ 35 & SV 1697, while *Spodoptera* incidence (3.30%) was noticed under genotype SZ 35 and minimum (0.20%) was observed under SV-SCLE-1 at 60 DAS.