



Triveni
ENGINEERING & INDUSTRIES LTD.

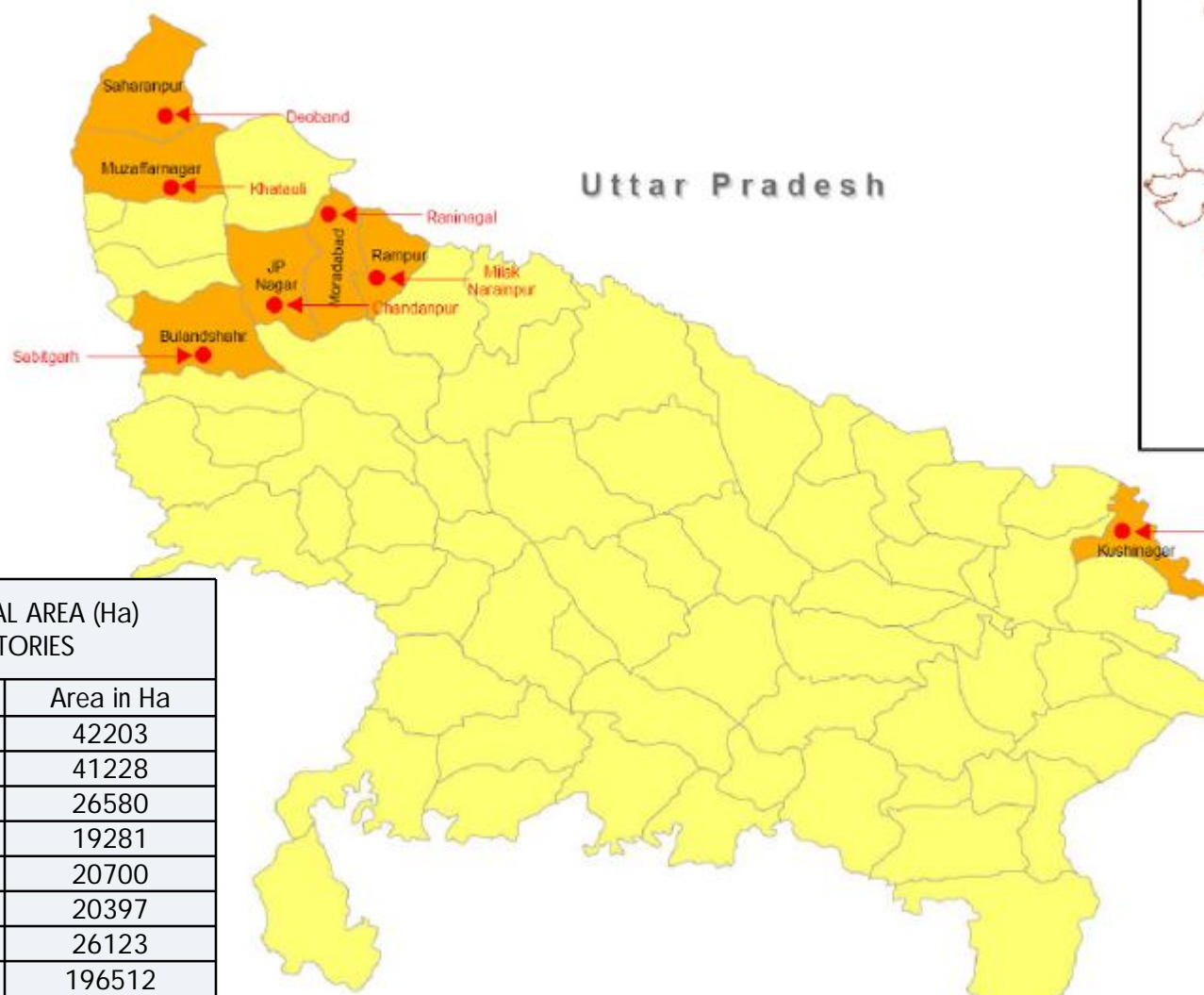


SSI Experience in Triveni Sugar – UP

On behalf of Er. A K Tanwar, President Sugar



Location Map – 7 Sugar Factories of TEIL



OPERATIONAL AREA (Ha)
of FACTORIES

Unit	Area in Ha
Khatauli	42203
Deoband	41228
Sabitgarh	26580
Chandanpur	19281
Raninagar	20700
Milak Naranpur	20397
Ramkola	26123
Total	196512

Basic details of Triveni

- Total Operational area – 1.96 lakh ha
- Total crushing capacity of 7 units – 108.9 million quintals
- Crushing trends (lakh quintals)
 - 2010-11 – 45.61
 - 2009-10 – 45.90
 - 2008-09 – 37.34

Key Issues of Growers and Triveni!

Growers

- Rising Costs of Cultivation with static or declining yields
- Unavailability of good quality seed material
- Improper cultivation practices
- Water table depleting year after year
- Unpredictable climatic aberrations
- Less remunerative with associated risks at every stage

Triveni

- Under utilisation of installed capacity and short crushing period due to non availability of cane
- Low sugar recovery
- Competition from other cash crops
- high seed rate - inadequate coverage of targeted area
- No mechanisation due to closer spacing
- Cyclical fluctuations and uncertain export outlook
- Companies running at losses

Encounter with SSI!

- ❑ Heard about SSI and contacted WWF-ICRISAT in 2008
- ❑ Conducted SSI Field trials in 25 acres with 1 lakh bud chip seedlings in 2008-09 with support of WWF - ICRISAT
- ❑ Inspired by the results, embarked upon scaling up of SSI in 7500 ha in 7 sugar units in 2010 spring season
- ❑ But achieved 1250 ha with about 4000 farmers taking up SSI
- ❑ Mixed results due to huge targets, lack of staff capacities, inadequate backstopping support to farmers, etc.



But many encouraging results ...

Chandrapal Singh (Devrala village, Bulandshahar District, UP)



- Seedlings planted: 3400 in 4 Beegha's (0.75 acre)
- Variety: Co 238
- Spacing: 4 x 2 feet (SSI) against 2 x ½ feet (Traditional)
- Yield with traditional method: 330 Qtls/acre
- Yield with SSI: 510 Qtls/acre
- SSI crop sold for the seed purpose at premium price.
- Expected yield from ratoon: 600 quintals /Acre

Shiv Kumar Tyagi

(Bachitti Village, Saharanpur District, UP)



- Seedlings planted: 6600 seedlings in 4 Beeghas (0.66 Acres)
- Spacing: 4 x 2 feet (SSI)
- Variety: CoS 88230
- Yield with traditional method: 240 Qtls/acre
- Yield with SSI: 420 Qtls/acre
- SSI crop sold for the seed purpose at premium price of Rs. 250 per quintal
- Expected yield from Ratoon: 600 quintals/Acre

Baljinder Singh

Naipura village, (Jansath block, Muzaffarnagar District, Uttar Pradesh)



- Seedlings planted: 15000 in 2.5 Acres
- Spacing: 5 x 2 feet (SSI)
- Variety: Co 238
- Yield with traditional method: 400 Qtls/acre
- Yield with SSI: 500 Qtls/acre
- SSI crop sold for the seed purpose at premium price of Rs. 250 per quintal

Collaboration with AgSri...3 year Yield Enhancement Programme (YEP) 2011-2014

Triveni collaborated with AgSri, Hyderabad for 3 years term with following objectives to:

- Improve the cane yields
- Improving the sugar contents
- Improving the water productivity
- Introduce quality varieties
- Training and capacity building of Triveni team to achieve the above objectives.



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Main Interventions with AgSri support

- Capacity building of farmers and Triveni staff
- Round the year technical supervision and backstopping support to farmers
- Kisan nurseries at backyards
- 600 farmers planted bud chip seedlings in 400 Acres across 7 factories



Benefits of SSI

- Yields as high as 51 t/acre with SSI in UP conditions
- Field mortality less than 5%
- Higher number of millable canes/plant & better quality of canes
- Provides ample opportunities for intercropping
- Significant increase in income of SSI farmers



Farmers as well as factory excited to upscale SSI in UP.....

SSI Ratoons performing quite well....!

- ❑ SSI Ratoons are performing extremely well.
- ❑ Expected yield 60 tons/acre from majority of the ratoon plots.





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Md. Ali with his ratoon crop!

Mulawan Village, Muradabad District (UP)



- Seedlings planted: 8000 seedlings in 8 Beeghas (1.33 Acres)
- Spacing: 4 x 2 feet (SSI)
- Variety: CoS 88230
- Yield with traditional method: 240 Qtls/acre
- Yield with SSI: 430 Qtls/acre
- Expected yield from Ratoon: 600 quintals/Acre

Bud Chip Nurseries....

A micro enterprise for farmers!



- Tungel Singh from Dillari Block, Muradabad district
- No. of Seedlings raised: 58,000
- Self Planting: 8,000
- Seedlings sold: 50,000
- Income from sale of seedlings: Rs. 40,000

Umrao Singh with his backyard nursery.....



- Umrao Singh from Dariyapur Village (JP Nagar)
- No. of seedlings raised: 35000
- Self planting: 3000
- Sold to other farmers: 32000
- Total income: Rs. 35000
- Cost incurred: Rs. 5000
- Net income from sale of seedlings: Rs. 30000

Interventions to up scaling SSI

- ❑ Working with farmers.
- ❑ Training and building new Skill
- ❑ Regular backstopping support required
- ❑ demonstration at strategic locations (*Seeing is Believing!*)
- ❑ Appropriate responses to Extreme cold climate: sprouting problems in Bud chip nurseries
- ❑ Labour scarcity and appropriate mechanization.
- ❑ Incentives & subsidies.

THANK
YOU

