

Success Story

Mechanized harvesting in Sugarcane (RKVY)

- **Title** –Mechanized harvesting in sugar cane (RASHTRIYA KRISHI VIKAS YOJNA)
- **Category** – Agriculture
- **Challenge** –

Manual harvesting is big challenge as Labour availability is big concern in present days. Lack of labour lead to non-availability at Sugar factory, which lead to No cane to Sugar Factory and huge losses to Co-operative Sugar Factory & its farmer. Sometime Farmer burn cane due to non-cutting of cane, which lead to pollution and financial losses.

- **Initiative** –

I am member of Kisanveer Satara Co-Operative Sugar Factory, Bhuj, Satara. Considering future, new development & evolution in cane Industry our Chairman Mr. Madan Bhosale, approached all farmer members to take initiative in Harvesting mechanization. He was very much positive for Sugarcane Harvester. Our Chairman has initiated this project considering acute scarcity of manual labour. In 2011-12 with motivation from our honourable chairman I decided to go for Sugarcane Harvester project where I was supported by RKVY scheme with subsidy. This helped me & Sugar factory & my fellow farmer brother to go for Mechanical Sugar cane Harvesting.

In Mechanical harvesting of Sugarcane, where in I found out Case New Holland A 4000 Sugar cane Harvesters as a solution to Farmers & Sugar Factories. Case New Holland offered the sugarcane harvesters after investing sufficient time in studying, understanding & analysing the Indian conditions, and the focus was sharpened on educating the farmers, entrepreneurs, sugar factories for systematic plantation, proper unloading system at factory, transportation methods.

Sugar factory provided me work agreement as well as financial assistance which motivated me to go for the Mechanical Sugar cane harvester project. We are harvesting cane of farmers with consultation of Agri. Dept. of Sugar factory. Sugar factory has supported us with special unloading system i.e. through tippler.

- **Key result/insight/interesting fact** -

Challenges –

- ✓ High profits from sugarcane
- ✓ Acute shortage of Labour
- ✓ Sugar industry is being challenged continuously for its survival in the recent years because of Labour
- ✓ Continuously increasing cost of harvesting
- ✓ Declining sugarcane yield due to delayed harvesting
- ✓ Declining comforts and enthusiasm in manual harvesting
- ✓ Manual process is cumbersome & time consuming
- ✓ Sugar factories & farmers are moving towards mechanization.
- ✓ Labour dependency of Sugar factory has come down.
- ✓ Covered all parts of Maharashtra through Sugarcane Mechanization
- ✓ New Employment generation

Benefits -

- ✓ Consistent supply of cane
- ✓ Supply of more bottom nodes
- ✓ 2- 3 hours cut to crush time
- ✓ Timely and economical harvesting
- ✓ Less unloading time
- ✓ Reduced load on crushing unit
- ✓ Better sugar recovery levels
- ✓ Expand cane acreage

• **Harvesting Data Year wise -**

2011-12 – 5000 MT
2012-13 – 9000 MT
2013-14- 10000 MT
2014-15- 16000 MT
2015-16- 9000 MT
2016-17- 6500 MT

• **Total Tonnage – 55,500 MT in Four working season (Avg. 1 season time – 4 Months)**

Harvesting Rate per Ton – Rs. 378 /-

Total Harvesting Business Turnover Till date - Rs. – 2,09,79000 / -

Total Loan Component- Rs. 92 Lac
Bank- SBI, Branch – Bhuinj, Satara
Interest – 12 % Yearly
Installing – Yearly
Loan clearance Year -2017

• **Important Aspects:**

- The harvester requires 4 ft. row-to-row plantation
- Special unloading at Sugar factory through Tipper
- Improvement in exiting harvesting vehicle
- Direct through pass for harvester

• **How we effectively managed this:**

- The company team jointly with sugar factories, educated farmers & implemented 4-ft. plantation. This resulted in 80% plantation with increased per acre yield by 25%, benefitting the farmers.
- Sugar factories developed desired unloading system i.e. Tipper
- We also modified the transportation trailer with increased height by 5 ft.
- Sugar factory unloading billet cane without waiting or halting, which results in more harvesting

• **Impact -**

- ✓ Sugar factories & farmers are moving towards mechanization.
- ✓ Labour dependency of Sugar factory has come down.
- ✓ Total 22.50 Lac MT cane harvesting has done with My Case New Holland A4000 Sugar cane harvesters in Baramati Area.

✓ Employment generated for more than 16 people

- **Lessons Learned**

1. What did you learn in this process? What was difficult or challenging?

- As harvester requirement is from 4 Ft plantation,
- Special unloading system at Sugar factory i.e. Tippler
- Improvement in exiting harvesting vehicle
- Direct through pass for harvester

2. How did you overcome the challenges faced?

- Sugar factory along with Case New Holland Team developed & implemented campaign for 4 Ft plantation, which resulted in 80% plantation of 4 FT plantation. This plantation method benefitted farmer with increase in per acre yield by 25%.
- Sugar factory has developed unloading system i.e. Tippler
- We have changed transportation trailer – we increased their height by 5 Ft
- Sugar factory unloading billet cane without waiting or halting, which results in more harvesting

- **List of all project partners and/or donors who supported the work**

- Kisanveer Satara Co-operative Sugar factory Team, Case New Holland Team, Mr. Sagar Jadhav & Group

- **Contact person for this story (name, position, email address)**

Mr. Suresh Chikane Mob - 9860852040

Farmer Member- Kisanveer Satara Sugar Factory, Bhuinj, Satara

• Supporting Quotes and Images



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इमरिअल ट्रॅक्टर



ट्रक मध्ये लोड करताना



टिअर, मारुती व इतर टाक्यात

न्युहॉलंड ऊस तोडणी यंत्र

स्वयंचलीत, स्वयंपूर्ण भारतासाठी उपयुक्त एकमेव ऊस तोडणी यंत्र

उच्च प्रतिसी वास्तानुकूलित यंत्रणा
 सातत्याने लाज्या उसाचा पुरवठा.
 खोडकीच्या मुळ्या कमी दबल्याने खोड्या फूट जोमदार.
 टर्बा एअर ड्रॅग, क्लिअरिंगमुळे अतिजव घांगल्या प्रकारे पाचट साठणे व स्वच्छ उस
 तोडणी खर्च मजुरांच्या इतकाच. मजुरांवर रामबाण उपाय
 लव्यातल जास्त साखरेच्या पैसांची तोडणी व पुरवठा.
 कमी वजनामुळे शेत जमीन कमी दबते.
 वाईव तोडणीची क्षमता
 पडलेला किंवा आडवा ऊस तोडता येतो.

सि.एन.एच.इंडस्ट्रीअल (इंडिया) प्रा. लि.

कॉर्पोरेट ऑफिस : प्लॉट नं. ११३, टॉवर बी, ३ रा मजला, मार्कसी इंडस्ट्रीअल कॉम्प्लेक्स, स्टोईम बिल्डींग, पार्लोर्ट रोड, सेक्टर १८, मुल्तान १२२०१५, हरियाणा, रिजलत ऑफिस : ३०१ पेट्टागंग टॉवर १, मारुतु गिटी, पुणे ४११०१३, महाराष्ट्र, मो. ०९१६०३३३०५ / ०९१४०५२४०५



लोकमत

किसन वीरमध्ये पंचवीस केन हार्वेस्टर दाखल

मजूर टंचाईवर पर्याय; पुढील गळीत हंगामात येणार यंत्र; वेळ अन् श्रमाची होणार बचत

लोकमत न्यूज नेटवर्क

पाचवड : ऊसतोड मजुरांच्या टंचाईच्या पार्श्वभूमीवर पुढील गळीत हंगामापासून पंचवीस केन हार्वेस्टर ऊस तोडणी यंत्र दाखल करण्याच्या किसन वीर उद्योग समूहाच्या निर्णयाचे सर्वत्र स्वागत होत आहे. केन हार्वेस्टर घेऊ इच्छिणाऱ्या शेतकऱ्यांबरोबरच केन हार्वेस्टर कंपनीच्या पदाधिकार्यांनीही कारखान्यास प्रत्यक्ष भेट देऊन व्यवस्थापनाच्या या निर्णयाचे स्वागत केले.

यावेळी अध्यक्ष मदन भोसले, उपाध्यक्ष गजानन बाबर, केन हार्वेस्टर मालक व ऊस उत्पादक शेतकऱ्यांशीही त्यांनी चर्चा केली. अमेरिकेतील न्यू हॉलंड कंपनीचे व्लोबल मार्केटिंग हेडक्वार्टर जॉर्जसन, रिजन हेड मॉडिओ मिकेली, कंपनीचे भारतातील विक्री पश्चात प्रमुख रमेश कुमार, महाराष्ट्राचे वरिष्ठ मार्केटिंग



केन हार्वेस्टरने सुरु असलेल्या ऊसतोडीची पाहणी करताना मदन भोसले, गजानन बाबर, क्रेग जॉर्जसन, मॉडिओ मिकेली, रमेश कुमार, नितीन पाटील, केन हार्वेस्टर मालक व शेतकरी.

व्यवस्थापक नितीन पाटील यांनी कारखान्यास भेट दिली. यावेळी कारखाना कार्यक्षेत्रात होणारे ऊस उत्पादन, सध्याची यांत्रिकी ऊस तोडणीची स्थिती, केन हार्वेस्टरने ऊस तोडणीसाठी आणखी असणारा वाव

याची माहिती घेतली. संपूर्ण देशात केन हार्वेस्टरने सरासरी एक टक्का ऊस तोडला जातो. किसन वीर उद्योग समूहाने दहा टक्क्यांपर्यंत घेतलेली आघाडी कौतुकास्पद आहे. असे नमूद करून कंपनीच्या पदाधिकार्यांनी

कारखान्याच्या ऊसतोड यांत्रिकीकरणाच्या विस्तारास सहकार्य करू, असे सांगितले.

किसन वीर कारखान्याकडे सध्या कार्यरत असलेल्या केन हार्वेस्टरचे मालक आणि ऊस उत्पादक

शेतकऱ्यांशीही त्यांनी चर्चा केली. त्याचबरोबर कंपनीच्या पदाधिकार्यांनी भुईज येथील लक्ष्मण शेडगे आणि ओझडें येथील विजयसिंह पिसाळ यांच्या शेतात केन हार्वेस्टरने सुरु असलेल्या ऊस तोड प्लांटला भेट दिली. त्यांच्या समस्या जाणून घेतल्या.

यावेळी पंचायत समिती सदस्य दीपक ननावरे, सतीश भोसले, भुईजचे उपसरपंच प्रशांत जाधवराव, केशवराव पिसाळ, सुरेश चिकणे, भाऊसाहेब जाधव, मदन शिंदे, शेखर भोसले-पाटील, रोहित जगदाळे, किरण शिंदे, विठ्ठलराव कदम, प्रशांत भोसले, महादेव यादव, प्रदीप शेडगे, जयवंत शेडगे, सोभ जमदाडे, उदय शिंदे, सागर मांडे, तुषार शिंदे, संकेत भोसले, संजय पिसाळ, संतोष कदम, चंद्रकांत गुजर, अनिकेत चव्हाण, अरुण नवले, विशाल सावंत, शेतकरी उपस्थित होते.

- **Quote –**

Mr. Bhosale – Farmer, Bhuinj

- Sugar Cane Harvester changed our lives. We are not labour dependent. Our cane cuts on time with more yield. In addition, there is no expenses for trash mulching & stubble saving. We are saving around Rs. 5000 of trash mulching & Stubble shaving due harvester

Mr. Anil patil- Harvester Owner, Warananagar

- Sugar cane harvester increased employment and new means of business like cane transportation for young generation.

- **Checklist –**

1	Is the story interesting to the target audience of the project/activity report?	Y
2	Does the story explain what new insights the project brings? What is the main lesson learned from this story? Does the story describe a key insight on what works and what doesn't and something that future project could build on	Y
3	Does the story describe the outcomes the project produced and the people who are benefitting? What changes—in skills, knowledge, attitude, practice, or policy—has the project brought, and who is benefitting from these changes?	Y
4	Does the story make a compelling point that people will remember? Does the story show how the project makes a difference to improving livelihoods and lessening poverty?	Y
5	Does the story provide an interesting fact that people will remember? For example, how much yields increased, how many hectares of land could become more productive from this innovation or technology?	Y
6	Does the story explain what kind of impact this innovation or technology could have if scaled up?	Y
7	Does the story show which partners contributed and how?	Y
8	Does the story include quotes from Stakeholders or beneficiaries?	Y
9	Have I provided links to other media (journal articles, website news, newsletter, blogs, and annual reports of other Programme / project) that also feature this story?	Y
10	Have I provided the contact details of people who can provide more information?	Y