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A case study: Impact of PKV mini Dal Mill on its owners

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Abstract

The study entitled "Impact of PKV Mini Dal Mill on its owners: a case study" was carried out in the Akola and Amravati districts of the Vidarbha region. For this study, a list of owners of PKV Mini Dal Mill who started their plant from 2015-2016 was collected from the Department of Post Harvest Engineering and Technology, College of Agricultural Engineering and Technology, Dr. P.D.K.V. Akola. A sample of ten owners of PKV Mini Dal Mill was taken from the districts of Akola and Amravati. The specific objectives of the study are as under

1. To study the profile of PKV Mini Dal Mill owners
2. To identify the constraints faced by PKV Mini Dal Mill owners

The findings revealed that, majority of PKV Mini Dal Mill owners were from middle age group, had education up to secondary school, possessed semi-medium land holding, agriculture as main occupation, with medium level of farming experience.

Keywords: PKV mini dal mill, case study, profile, constraints, Vidarbha region, Dr. P.D.K.V. Akola

Introduction

For the protein requirement of the organism, pulses are next to cereal only. Pulses, including dal, chapati and rice, are almost an essential component of the Indian diet that denotes full and satisfying food. The preference of vegetarian depends primarily on pulse grains for protein requirements. As the Indian population's average diet is very deficient in protein content, more protein can be produced by more pulse use and there is a need for multiple increases in pulse production. With pulse production growing day by day in the Vidarbha region of Maharashtra state, the Akola and Amravati districts of the Vidarbha region are important from a pulse processing point of view. Keeping this in point of view of small farmers, PKV Mini Dal Mill, which is a compact mini dal mill with all essential operations, has been developed at Dr. PDKV, Akola. This dal mill is compact in size its construction is simple and very easy to handle. This consists of vertical grinding stones that are used for the splitting of pulses. The shelled dal is passed through grinding stone with the help of hopper. The stones are provided with various sizes of lines for different dals being processed. The removal of the outer layer and splitting the grain into two equal parts is called as pulse milling. It uses an electric motor of 3.0 hp. Due to lower cost and space economy, it is beneficial for small scale processors and also the expenditure is low with higher dal recovery compared to commercial dal mills at rural level. Similarly, to the degree of 3.7 per cent, it can save transport and handling losses. It is possible to process the pulses at home with the use of this PKV Mini Dal Mill, which can operate for 150-250 days per year with 72-75 percent dal recovery for red grammes, 80-82 percent dal recovery for green grammes and black grammes. Its capacity for processing is 10 qt. Red grammes and 12 qt per day for green grammes and black grammes. This mill can also produce 3-4% more dal regeneration than the mega dal mills. Such processing is possible through the use of "PKV Mini Dal Mill Plant.

Materials and Methods

The present investigation was carried out to study the effect of PKV Mini Dal Mill on its owners: a case study in the districts of Akola and Amravati. Therefore, for the present study, a case study method of social research design was used to evaluate the case study of PKV Mini Dal Mill owners. Case study - A case study is a form of qualitative analysis that involves a person, situation or institution being very carefully and thoroughly observed. For this study, from the Department of Post-Harvest Engineering and Technology, College of Agricultural Engineering and Technology, Dr. P.D.K.V.

Akola, a list of owners of PKV Mini Dal Mill who started their plant from 2015-2016 was collected. A sample of ten

owners of the PKV Mini Dal Mill was taken from the districts of Akola and Amravati.

Table 1: Name of selected PKV Mini Dal Mill owner along with their respective address and contact number

SI No.	Name & address of owner	Contact No.
1.	Ramrao Kashiram Gawarguru, At Umari, Post Adsul, Tq-Telhara Dist Akola.	9604867169
2.	Balkrushna M. Sardar, At Gopalkhed Post Gandhigram, Tq & Dist Akola.	9657627974
3.	Rahul Jankiram Gawai, At Post Ramjinagar Borgaon (Manju), Tq & Dist – Akola.	8380906202
4.	Vilas Vinayak Barde, At Post Wahi, Tq- Murtizapur Dist – Akola	8830870753
5.	Yogesh Prakash Nagle, At Hatrun, Tq-Balapur, Dist-Akola.	7030697188
6.	Chaitak Santosh Palaspagar, At Ganori Post Dahihanda Tq & Dist Akola.	9767221561
7.	Anusaya S. Chandurkar, Tq– Dhamangaon Railway, Dist –Amravati.	9860612315
8.	Sau Sangeeta Suresh Bhojapure, At post Yevada Tq Daryapur, Dist – Amravati.	7387261836
9.	Dnyaneshwar Vitthal Pawar, At post Nimkarda, Tq- Balapur, Dist-Akola.	9673743224
10.	Popat Maruti Sonawane, Murtizapur, Dist-Akola.	9422293995

Result and Discussion

The PKV Mini Dal Mill owners were distributed according to their personal, socio-economic, psychological and situational

characteristics viz, age, education, family size, land holding, subsidiary occupation, innovativeness, source of finance and sources of information are showed in table 2.

Table 2: Distribution of PKV Mini Dal Mill owners according to their personal, socio-economic, psychological and situational characteristics

Sr. No	Name	Personal Characteristics			Socio Economic Characteristics	
		1	2	3	4	5
		Age years	Education	Family Size	Land Holding in acres	Subsidiary Occupation
01	Shri. Ramrao Kashiram Gawarguru	39	12 th	4	4	Agriculture+ Personal business
02	Shri. Balkrushna M. Sardar	61	4 th	5	2	Agriculture+ Personal business
03	Shri. Rahul Jankiram Gawai	27	Graduate	2	3	Agriculture+ Personal business
04	Shri. Vilas Vinayak Barde	33	11 th	4	—	Agriculture+ Personal business
05	Shri. Yogesh Prabhakar Nagle	30	Graduate	5	8	Agriculture+ Personal business
06	Shri. Chaitak Santosh Palaspagar	41	12 th	5	4	Agriculture+ Personal business
07	Sau. Anusaya Shreeram Chandurkar	48	4 th	5	2	Agriculture+ Personal business
08	Sau. Sangeeta Suresh Bhojapure	47	4 th	3	8	Agriculture+ Personal business
09	Shri. Dnyaneshwar Vitthal Pawar	38	12 th	4	6	Agriculture+ Personal business
10	Shri. Popat Maruti Sonawane	38	12 th	4	5	Agriculture+ Personal business

Sr. No	Name	Psychological Characteristics	Situational Characteristics	
		6	7	8
		Innovativeness in per cent	Source of Finance	Source of Information
01	Shri. Ramrao Kashiram Gawarguru	61.11	Personal Savings	Krishimela
02	Shri. Balkrushna M. Sardar	50.00	Co-operative credit society	Magazine
03	Shri. Rahul Jankiram Gawai	65.55	Co-operative credit society	Radio
04	Shri. Vilas Vinayak Barde	61.11	Personal savings	Newspaper
05	Shri. Yogesh Prabhakar Nagle	83.33	Co-operative credit society	Friend
06	Shri. Chaitak Santosh Palaspagar	50.00	Self Help group	Agrotech
07	Sau. Anusaya Shreeram Chandurkar	77.77	Co-operative credit society	Agrotech
08	Sau. Sangeeta Sauresh Bhojapure	38.88	Co-operative credit society	Magazine
09	Shri. Dnyaneshwar Vitthal Pawar	55.55	Personal savings	Relatives
10	Shri. Popat Maruti Sonawane	72.22	Co-operative credit society	Friend

Distributional analysis

Profile of PKV Mini Dal Mill owners

The investigation showed that the majority of the owners of PKV Mini Dal Mill belonged to the middle age group, i.e. 36 to 50 years of age.

The majority of owners of the PKV Mini Dal Mill were trained up to college level, i.e. 55.00%. While 30.00 percent of owners of the PKV Dal mill had education up to high school level followed by middle school level (15.00 per cent). None of the owners of the PKV Mini Dal Mill, however, were found to be illiterate and educated at primary school level.

It could be observed that slightly more than one third of the owners of the PKV Mini Dal Mill had semi-medium land holdings. None of the respondents, however, had land ownership of less than 1 hectare. It was evident from the investigation that the majority of the PKV Mini Dal Mill

owners had medium size of family i.e. 5 to 7 members in a family, whereas, very few PKV Mini Dal Mill owners had small (up to 4 members) and big families (8 and above members). It was concluded that most of the owners of PKV Mini Dal Mill were doing business with PKV Mini Dal Mill along with farming. More than 50.00 per cent of PKV Mini Dal Mill owners were found to have 60.00 per cent and more than 60.00 per cent of innovation. It was concluded that the majority of owners of PKV Mini Dal Mill had their main source of finance as a cooperative credit society.

Most of the owners of PKV Mini Dal Mill had information about Dal Mill through newspapers, magazines, radio and Agro-technology organised by Dr. PDKV, Akola, was investigated.

Constraints faced by the PKV Mini Dal Mill owners

The PKV Mini Dal Mill owners were found being confronted with various types of constraints regarding technical, finance

and informative etc. The constraints faced by the majority of the respondents as revealed in Table 3.

Table 3: Constraints faced by the PKV Mini Dal Mill owners

Sl. No.	Constraints	Frequency (n=10)	Per cent	Rank
1.	Requires extra labours for oiling and drying the pulses	6	60.00	IV
2.	Lack of customers	4	40.00	VI
3.	Lack of availability of skilled labours at the time of season	9	90.00	I
4.	High expenses on oil	5	50.00	V
5.	Irregular supply of electricity	8	80.00	II
6.	Breakages of sieves while processing	7	70.00	III
7.	High cost of transportation	3	30.00	VII
8.	Not availability of proper storage facility	7	70.00	III

The important constraints expressed by the PKV Mini Dal Mill owners are presented in Table 3, it is found that, 90.00 per cent of the PKV Mini Dal Mill owners expressed, Lack of availability of skilled labours at the time of season followed by Irregular supply of electricity (80.00%), Breakages of sieves while processing (70.00%) and Not availability of proper storage facility (70.00%), Requires extra labour for oiling and drying the pulses (60.00%), High expenses on oil (50.00%), Lack of customers (40.00%), High cost of transportation (30.00%).

The findings of this case study suggested that the owners were pleased with PKV Mini Dal Mill as it is the source of continuous generation of revenue. It is also noted that most individuals have knowledge of PKV Mini Dal Mill, but PKV Mini Dal Mill has been less acknowledged. Most of the respondents were unaware of the PKV Mini Dal Mill government subsidy. Instead of being popular, PKV Mini Dal Mill is a good subsidiary occupation, but very few people take advantage of this. It is important that joint efforts by the Post-Harvest Technology and Engineering Department, extension agencies, KVK's to raise awareness and interest in PKV Mini Dal Mill should be made to improve this situation. Loan provision, different policies, schemes and government subsidies should be provided. These are the ideas that have arisen from this research.

The key constraints expressed by the owners of the PKV Mini Dal Mill were Needs additional labour for oiling and drying the Pulses, Lack of customers, Lack of availability of skilled labour at the time of season, High oil costs, Erratic energy supply, Breakages of sieves during processing, High transport costs, Not availability of proper storage The results of the study revealed that It is also found that very few respondents had Dal Mill through government subsidies, so knowledge of subsidies must also be generated. Most of the village people are unaware about the PKV Mini Dal Mill unit. Efforts should be taken to create more awareness in this content through training programmes, demonstration etc.

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