

**A REPORT**

on

**THIRD MEETING  
of  
RURAL TECHNOLOGY ACTION GROUP (RUTAG) CENTRE-IIT ROPAR**

**AUGUST 12, 2013  
(3 pm to 5 pm)**

Submitted to

**Office of Principal Scientific Advisor to Government of India**



By

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## REPORT

The third meeting of Rural Technology Action Group (RuTAG) Centre of Indian Institute of Technology (IIT) Ropar held on August 12, 2013 from 3 pm to 5 pm in conference room of the institute. The following were present in the meeting:

<b>Sr No.</b>	<b>Name of the Participant</b>	<b>Official Affiliation/Address</b>	<b>Phone No/Email</b>
1.	Dr Lakhvinder Singh Hundal	Chief Agriculture Officer Dist. Ropar	09988499215 caoropar@gmail.com
2.	Sh Bhopal Singh	District Development Manager, NABARD Dist. Ropar and Nawanshahar	09417058865 nbard_rpr@bsnl.in
3.	Sh Ajai Malik	Ambuja Cement Foundation Ropar	09417006568 ajai.mailk@ambujacement.com
4.	Sh Surinder Singh	Kheti Virasat Punjab	09417011250 khetivirasat@gmail.com
5.	Ms Simran	Mahila Jagriti Swayamsevi Sanstha Punjab	08146814598 shardasharma69@gmail.com
6.	Dr Ravinder Kumar	Krishi Vigyan Kendra Punjab Agriculture University Ropar	09872887311 drravinderchandel@pau.edu
7.	Dr Harpreet Singh	PI, RuTAG Centre, IIT ROPAR	09855709052 <a href="mailto:rutag-iitrpr@iitrpr.ac.in">rutag-iitrpr@iitrpr.ac.in</a>
8.	Dr Ekta Singla	Assistant Professor SMME, IIT ROPAR	<a href="mailto:ekta@iitrpr.ac.in">ekta@iitrpr.ac.in</a>
9.	Dr P Sarkar	Assistant Professor SMME, IIT ROPAR	08699398885 <a href="mailto:prabir@iitrpr.ac.in">prabir@iitrpr.ac.in</a>
10.	Sh Gaurav Sharma	Project Executive, RuTAG Centre, IIT ROPAR	09814099800

## **The following Technological gaps were identified in the meeting :**

- To improve the existing paddy transplanter so as to make it a multipurpose machine
- To develop polypacking to increase shelf life of the vegetables
- To develop efficient plastic waste disposal system
- To develop a small scale machine for processing wheat and rice
- To develop a garlic paste machine
- Development of good quality packaging material and small scale packaging machine
- Development of food quality testing machine
- Technology to prevent wild animals from entering and destroying the crops
- Development and standardization of processes and small scale machinery for processing of various pulses, turmeric, soyabean and fruit juices (kinnows and orange etc) etc so as to maintain nutritional values
- Small scale food processing machines such as biscuit making, spices, sauces
- Development of multiple seed sowing implements for intercropping, which may be hand driven/cattle pulled or cycle driven implements
- To modify dairy farming project so as to obtain pure milk products and obtain bio fuel from it similar to what has been done at village Bahadurpur, dist. Ropar
- To standardize multi grain flour composition which is currently prepared by Mahila Jagrati Swayamsemi Sanstha
- Small capacity pulses cleaning and polishing machines
- Promotion and branding of products prepared by Mahila Jagrati Swayamsemi Sanstha
- Promotion of Organic farming and to preserve the area that is already under organic farming by default

It was also felt that there is a need to conduct village level meetings of RuTAG so as to interact directly with the rural folks and actual technological needs can be figured out and the interest of the villagers can be generated in their active participation from the initial problem of finding problems phase upto the final phase of implementations of the technologies that will be developed by the RuTAG.

The meeting ended with the following conclusions:

1. Each participating NGO/organization will try to submit a formal request to RuTAG centre, IIT Ropar describing their specific problems for which technical assistance from RuTAG is required.
2. Sh Ajay Malik, Ambuja cement foundation Ropar showed interest in one of the agricultural tools under development at RuTAG centre. It was decided that the concerned faculty Dr. Satwinderjit Singh and Dr. Harpreet Singh will stay in touch with Sh Malik for possible trials of this tool in the fields of the farmers attached with this group. This group is ready to accept this implement if found fit for the use.
3. Another instrument which is under development at IIT Ropar namely Intermediate Pyrolysis unit to utilize agricultural based directly for producing useful energy, attracted the attention of participating NGOs. They are ready to accept it if found successful during field trials. The independence from palletisation process was found to be the attractive feature of this unit.
4. Dr. Ekta Singla showed interest towards developing some technology to prevent wild animals from entering and destroying the crops.
5. Sh Bhopal Singh gave several useful suggestions and showed interest to contribute in various RuTAG activities. He agreed to extend full support of NABARD, and make efforts to propose some small projects, whenever possible.

6. It was resolved that there is a need to hold more such meetings and the participating NGOs/organizations should meet frequently to carry forward the RuTAG activities.

Some of the equipments under development at RuTAG centre, IIT Ropar were also demonstrated to the participants.

Dr Harpreet Singh thanked all the participants and invited NGOs to come forward and join hands with RuTAG centre so that the objectives of RuTAG could be achieved in an effective manner. He requested that even individual NGOs can visit the centre and discuss their problems in informal way as and when needed.

**(Dr Harpreet Singh)**