

Department of Agriculture & Cooperation
(M&T Division)
Krishi Bhawan, New Delhi

Subject: Proceedings of the Four days' Training Programme at CIAE, Bhopal from April 9-12, 2012 for participants from approved 25 SAUs/State Government Departments.

With the approval of competent authority, a four days training programme was arranged at CIAE, Bhopal with the coordination of Dr. Surendra Singh, Project Coordinator (Farm Implement and Machinery), CIAE, Bhopal and Directors of all four FMT&TIs for officials reported for training from twenty seven (27) designated testing centres pertaining to State Agricultural Universities (SAUs)/ICAR Institutes/State Government Departments. Joint Secretary (M&T), DAC, ADG (Engg), ICAR, Director, CIAE Bhopal and Deputy Commissioner (M&T), DAC grace the training programme. **A list of participants is given in Annexure I.** The main objective of training was to streamline all the testing activities to be taken by the designated institutions in coming time, as in vogue, being followed by four FMT&TIs. The inaugural programme was Chaired by Dr. NPS Sirohi, ADG (Engg.), ICAR, Shri SKG Rahate, JS (M&T), DAC was Chief Guest on this occasion.

The inauguration function started with welcome address by Director, CIAE Bhopal. He welcomed the Chief Guest Shri SKG Rahate, Joint Secretary (M&T), Dr NPS Sirohi, ADG (Engg), ICAR, Er. V N Kale, Director, FMT&TI, Budani, Shri Omkar Singh, Deputy Commissioner (M&T), and all participants. **Dr Pitam Chandra**, Director, CIAE highlighted the importance and necessity of the topic. He expressed the importance of mechanisation to make agriculture profitable and comfortable, so that shifting of the farmer's new generation can be avoided. Labour constraints are now big issue for agriculture due to MNAREGA program and it has made mechanization necessity in this situation. He opined the promotion of agricultural machinery manufactures significantly and their quality product required to be certified. He said that DAC agreed to expand the testing centres, so that all the manufactures get tested their products as per BIS standard with professional touch.

Dr Surendra Singh, PC (FIM) requested all participants for brief introduction and after self introduction participants were requested to give the status of testing facility and centre activities. Some of the centres like TNAU Coimbatore, JAU Junagadh, West Bengal, etc. mentioned that funds have not been received to run the testing centre. During the introduction and interaction few participant expressed views regarding the fee charges and taxes on fee. It was agreed that SAUs and ICAR Institutes need not to charge tax on fees so collected for testing of equipment being Govt. organizations. Chief Guest emphasized that we should pay more concern on technical aspect rather than fee charges. The fee structure circulated in only guide lines and Testing Centres are free to fix their own fee charges with the approval of competent authority.

Shri Omkar Singh, Deputy Commissioner (M&T), expressed the importance and need of four days training to maintain quality of machinery and equipment manufactured in the country. To maintain the quality of such machinery and equipment, testing as per national standard is quit essential. He informed that besides the four Farm Machinery Training & Testing Institute, there are 27 approved SAUs/ICAR Institutes/State Govt. Departments, which have been designated as testing centres for Agricultural Machinery and equipment in the country. The aim of the training is that testing of machinery and equipment is carried out

to evaluate the characteristics performance in light of BIS test code/parameters, which is requirement of financial institution for finance and promoting the same under Govt. assisted programmes/schemes with ensured quality of products. He expressed the objectives in very elaborate manner with the emphasis on uniformity in test report and evaluation process with set standards with proper terminology.

Dr. NPS Sirohi, ADG (Engg.) ICAR welcomed the patricians and complemented the Project Coordinator of AICRP on Farm Implements and Machinery and Shri Omkar Singh, Deputy Commissioner (M&T) for their efforts to organize this training. He also mentioned about the mechanization vs. labour displacement issues existed since long time. It is need of mechanization now due to labour insufficiency and to perform the agricultural operation in time. He expressed that this meeting ends with good deliberations and fruitful out comes.

Shri SKG Rahate, Joint Secretary (M&T) and Chief Guest released the Training Manual on Testing of Agricultural Machinery on this occasion and addressed the delegates. He welcomed all the participants from designated institutions taking part in this training program. The performance and status of designated testing centres was asked from respective participants by the Chairman. On the basis of concluding remarks of Chairman and deliberations held in four days training programme, following action points emerged for taking initiatives in the matter:-

1. Reviewing of performance of designated testing centres

1.1 On the advice of Dr. Surendra Singh, PC(FIM), CIAE, Bhopal, in regard to funding and functioning of designated testing centres (Annexure - II), the Chairman agreed to drop **“Department of Agriculture & Food Engineering, Indian Institute of Technology, Kharagpur (West Bengal)”** from the previous approved list. Chairman also agreed to designate JNKVV Jabalpur as Testing Centre in place of IIT Kharagpur for which the written request has already been submitted (a copy was handed over during training programme).

(Action: Department of Agriculture & Cooperation)

1.2 In view of lack of poor response, the designated centre from **“College of Agricultural Engineering and Technology, Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli (Maharashtra)”** may be shifted to MPKV Rahuri or its Agriculture College at Pune, Maharashtra, subject to written request received from concerned.

(Action: Department of Agriculture & Cooperation/ICAR)

1.3 The Chairman also agreed for providing funds to the following approved testing centres from the scheme of DAC during XII Five Year Plan, subject to approval from the Planning Commission, provided these centres have not received funds under RKVY Scheme during the XI Five Year Plan:

Sl. No.	Name of Institutions
1.	Central Institute of Agricultural Engineering, Bhopal (Madhya Pradesh)
2.	Division of Agricultural Engineering, Indian Agricultural Research Institute, New Delhi.
3..	College of Agricultural Engineering and Post Harvest Technology, Ranipool, Gangtok (Sikkim)

4..	Sam Higginbottom Institute of Agriculture, Technology & Science (AAI), Deemed University, Allahabad (U.P.)
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(Action: Department of Agriculture & Cooperation/ICAR)

- 1.4 During progress review, it was observed that the following approved testing centre have not received funds under RKVY Scheme so far from State Govts. Chairman advised that the matter may be taken up with State Govt. on urgent basis.

Sl. No.	Name of Institutions
2.	Faculty of Agricultural Engineering, Rajendra Agricultural University, PUSA, Samastipur (Bihar)
3.	Sher-e-Kashmir University of Agri. Science & Technology, Srinagar region (J. & K.) and Jammu region (J. & K.)
4.	College of Agricultural Engineering, Kerala Agricultural University, Tavanur (Kerala)
5.	College of Agricultural Engineering and Technology, Orissa University of Agriculture and Technology, Bhubaneswar (ORISSA)
6.	Tamil Nadu Agricultural University, Coimbatore (TAMIL NADU)

(Action: Department of Agriculture & Cooperation)

2. Follow up Action

- 2.1 The approved centres will strictly follow guidelines for testing of Agriculture equipment and machinery circulated by DAC and CIAE, Bhopal. No deviation shall be allowed in this regard.

(All approved centres)

- 2.2 The Agricultural Machinery and Equipment shall be accepted for test as per guidelines given in Training Manual circulated by CIAE, Bhopal during training or any amendment from time to time.

(All approved centres)

- 2.3 Follow-up for protocol of testing agriculture machinery may be done as per Chapter 3 page 12 to 16 of Training Manual circulated by CIAE, Bhopal or any amendment from time to time.

(All approved centres)

- 2.4 Testing charges are indicative, which shall be levied from the applicant according to the agreement of the testing authorities. SAUs/ICAR Institutes may not charge taxes as proposed in letter circulated.

(All approved centres)

- 2.5 Testing authority comprising of minimum three members viz. HOD (College of Agricultural Engineering), Test Engineer and Technical Officer shall be declared by the competent authority i.e. Vice Chancellor of the University or Dean of Faculty of Agriculture Engineering or Director of ICAR Institutes or Secretary/Director of the Agriculture of respective State Government under intimation to this Department. The testing authority will be responsible legally for replying against any RTI Issues etc.

(All approved centres)

2.6 All four FMT&TIs – Budni,(M.P.), Hissar(Haryana), Garladinne, Anantapur(AP) and B.Chariali, Sonitpur(Assam) have been declared as nodal agencies for quality audit and functioning of approved testing centres attached to FMT&TIs regularly on quarterly or half year basis as per **Annexure III attached.**

(Action: All approved centres/FMT&TIs)

2.7 For reviewing annual performance of all approved Testing Centres, Annual Meet, as a regular feature, may be taken up.

(Action: Department of Agriculture & Cooperation/CIAE (Bhopal)/ICAR)

3. Creation of facilities at approved centres.

3.1 All approved centres will develop a web-site particularly for assessing all kind of information relating to training and testing. Most of the correspondence shall be made by the testing authority through e-mail. Wider publicity may be made through print and electronic media for more awareness among users in this regard.

(Action: All approved centres)

3.2 All approved centres will display following information on a Notice Board and update it regularly in the premises of approved testing centres.

- Name and Contact number of Testing Authority.
- List of items to be tested by the centre.
- Testing Fee of the equipment levied by the centre during financial year.
- Citizen Charter for testing of test samples.
- Boarding and lodging facilities at the centre on payment basis.
- Name, designation, address and Contact number of officer from the DAC.
- Grievances officer of the approved centre nominated by SAUs/State Governments.
- Display of Notification No. issued from Ministry of Agriculture, Department of Agriculture & Cooperation for notifying the Institution as a Testing Centre for Agricultural Machinery and Equipments.

(Action: All approved centres)

3.3 All approved testing centres shall maintain all the records in the form of technical file for a period of five years, relating to testing correspondence i.e. application form, technical specification, photocopy of demand draft received against testing fee, data observation sheet and any agreement made between testing authority and applicant etc.

(Action: All approved centres)

3.3.1 All the records are auditable; these may be audited by the respective Audit Department on regular basis, under intimation to Regional FMT&TI/Ministry of Agriculture.

(Action: All approved centres)

4. Miscellaneous points:

4.1 On completion of all tests as per relevant BIS standards of test samples, the testing authority shall prepare a draft test report in the prescribed format, as in vogue, followed by FMT&TIs and send the same to concerned Director of FMT&TI for offering their comments **by e-mail** only. The FMT&TI will give their comments within seven working days and if not so Testing Authority will presume that there is no comment and Test Report would be released. The comments may also be asked from the applicant for their suggestions with regard to improvement of the sample at production level as suggested by testing authority under Chapter - Comments and Recommendation.

(Action: All approved centres)

4.2 Final Test report shall be issued by the approved testing centres only after incorporating comments furnished by the applicant as well as from FMT&TIs. A copy of final test report will be supplied to concerned FMT&TIs under intimation to Department of Agriculture & Cooperation.

(Action: All approved centres)

Annexure I

List of participants in the training programme on “Testing of Agricultural Machinery” to be held at CIAE, Bhopal during April 9-12, 2012.

Sl. No.	Name of Centre	Name & Address of the participants	Contact details
1.	Tamil Nadu Agricultural University, Coimbatore- 641 003	Dr. T Senthilkumar, Assistant Professor	9842955606 thasekumar@gmail.com
2.		Dr. M. Saravanakumar, Assistant Professor	9443857466 msaravana_aptnau@rediffmail.com
3.	Punjab Agricultural University Ludhiana-141 004	Er. Rajesh Goyal, Asstt. Engineer Department of Farm Machinery & Power Engineering	09779906139
4.		Er. Bhupinder Pal Singh	09872400742
5.	VNS Groups & Associates, Patna, Bihar	Sh. V N Singh	9709378234
6.	ANGRAU Hyderabad- 500 030 (Andhra Pradesh)	Er. P Sudhakar Reddy, Senior Scientist (Ag. Engg.)	9948291237
7.		Er. N Vinoda, Scientist (Agril. Engg.)	9849724314
8.	Maharana Pratap University of Agriculture & Technology, Udaipur- 313 001	Er. Shashikant G Pawar	Ph: 0294-2470119, 2417119(O), Shashipawar5406@gmail.com
9.		Er. Suresh Chandra Jat	Suresh160691@gmail.com
10.	Orissa University of Agricultural & Technology, (OUAT), Bhubaneswar (Orissa)	Dr A K Goel Associate Professor, Dept. of F.M.P.	9937660440 aswinigoel@yahoo.com
11.		Dr P L Pradhan Associate Professor, AICRP on FIM	9437184342 plp_ouat@yahoo.co.in
12.	Rajendra Agricultural University Pusa (Samastipur)- 848 125 (Bihar)	Er. Subhash Chandra	Mob: 9431897510 Email: Chandra_rau@yahoo.co.in
13.		Er. Sunil Kumar	9430245200
14.	Birsa Agricultural University Kanke,	Er. Birendra Oraon Principal Investigator (FIM)	Mob: 9905503184

	Ranchi-834 006 (Jharkhand)	Project), Deptt. of Agril. Engg. BAU, Kanke, Ranchi	
15.	CCS Haryana Agril. University, Hisar-125 004	Er. S Mukesh, Asstt. Prof. Department of Farm Power & Machinery, HAU, Hisar-125 004	Mob: 9416397798 E-mail: mukeshjainhisar@rediffmail.com
16.	Govind Ballabh Pant Univ. of Agricultural & Technology, Pantnagar- 263 145 (Uttarakhand)	Dr. T P Singh Head, Deptt. of Farm Machinery and Power Engg.,	(M)7500241498 05944-233380
17.		Dr. Jayant Singh	9410514942
18.	Kerala Agricultural University, Tavanur- 679 573 (Kerala)	Er. Sindhu Bhaskar Assistant Professor PI,AICRP on FIM, KCAET	Mob: 9446113559 E-mail: sbmangattil@gmail.com Sindhu.bhaskar@kau.in
19.	University of Agricultural Sciences	Er. Sunil Shirwal Asstt. Prof.	9986127705 sunilsshirwal@gmail.com
20.	Raichur- 584 101 (Karnataka)	Er. Sushilendra Asstt. Prof.	9448933556 ersushil@gmail.com
21.	Sam Higginbottom Institute of Agriculture Technology and Science, Allahabad – 211 007	Dr. R M Stevens Prof. & Head Deptt. of Agril. Engg.	Mob: 9450578719 email: rmstevens_16@yahoo.com
22.	Central Institute of Agricultural Engineering, (CIAE)	Dr. H L Kushwaha Senior Scientist	8989273448 hlkushwaha@gmail.com
23.	Nabi Bagh, Berasia Road, Bhopal- 462	Er. M B Tamhankar, Scientist	mbt_neh@yahoo.com 7566519009
24.	038 (Madhya Pradesh)	Dr. U R Badegaonkar Sr. Scientist,	9575509305 Udayrb65@gmail.com
25.		Er. G S Chouhan, Mechanical engineer	9893337882 chouhan_gurpal@yahoo.co.in
26.	Junagadh Agricultural University,	Dr. R Yadav Prof & Head (Farm Machinery & Power)	9426420561 Ryadav61@gmail.com
27.	Junagadh-362001 (Gujarat)	Er. A L Vadher, Asstt Professor	alvadher@jau.in
28.	Sher-e-Kashmir University of Agril. Science & Technology, Srinagar - 191121 (J. & K.)	Er. Mudasir Ali Division of Agril. Engg. SKUAST, Srinagar	9697051327 8587847302 Ma_malik_77@yahoo.com

29.	University of Agricultural Sciences, Gandhi Krishi Vigyan Kendra (GKVK), Bangalore-560065 (Karnataka)	Dr. B C Ravikumar Assistant Professor (Agril. Engg.), College of Agriculture,	9901449151 belaganakuppe@gmail.com
30.	Marathwada Agricultural University, Parbhani-431402 (Maharashtra)	Er. J M Potekar HOD, FMP	9923923221 jmpotekar@rediffmail.com
31.		Er. H G Darekar	9552138115 hari.darekar@gmail.com
32.	Indian Agricultural Research Institute (IARI), New Delhi – 110 012	Dr. Indra Mani Senior Scientist	9868656885 maniindra99@gmail.com
33.		Mr. Satish Devram Lande Scientist	9968190405 satishiari@gmail.com
34.	College of Agricultural Engineering and Post Harvest Technology, Ranipool, Gangtok-737135 (Sikkim)	Dr. N S Chauhan Associate Professor & PI AICRP on FIM,	Nsc_002@yahoo.co.in +91-9434742243
35.		Dr. S N Yadav Assoc. Prof	9474527606 snyadavbpl@yahoo.com
36.	State Level Agriculture Implement Testing Centre, Raipur (Chhatisgarh)	Ms Mukul Vandana Joint Director	0771-2443504, 2101905 M_vandana1@rediffmail.com
37.		Shri G K Pidiha Agriculture Engineer	0771-2443277, 98271-51776
38.		Sh. Vineet Das	Vineetdas2011@gmail.com
39.	Jharkhand Agriculture Machinery Testing and Training Centre (JAM-TTC), RANCHI (Jharkhand)	Er. J P Tiwari Asstt. Director Survey Soil Conservation	9431182155
40.	State Farm Machinery Training-cum-Testing Institute, Bidhan Chandra Krishi Viswavidyalaya (BCKV), Mohanpur, Distt. Nadia-741252 (West Bengal)	Mr. Shahnawaz Faruk Ahmed, Test Engineer	Asit Chakravarti asitkc@rediffmail.com farukbckv@gmail.com 07384431001

41.	State Level Farm	Er. R K Saxena, Assoc. Prof.	9452258968
42.	Machinery Training and Testing Institute, Rahmankhera, Lucknow – 227107 (U.P.)	Er. Prabhakar Shukla, Testing Engineer	8090268971 Prabhakarshukla05@gmail.com
43.	Mahatma Phule Krishi Vidyapeeth Rahuri,	Er. M B Agnihotri Sr. Tech. Asstt.	9881644680 agnihotri.mpkv@gmail.com
44.	Ahmednagar- 413 722 (Maharashtra)	Er. P J Thokale Tech. Asstt.	9850318456 pthokale@rediffmail.com
45.	Dr Punjabrao Deshmukh Krishi Vidyapeeth Krishi Nagar, Akola- 444 104 (Maharashtra)	Er. S M Nage Test Engineer, Farm Machinery Testing Centre	9766812246 <u>Nagesandip91@gmail.com</u> smnage@gmail.com
46.	Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur	Er. K B Tiwari	9329373898 kbtiwari53@gmail.com

- 1) Director, Central Farm Machinery Training and Testing Institute Budni and team
- 2) Director, North Eastern Region FMTTI, Biswanath Chariali (Assam) and team
- 3) Director, Southern Region FMTTI, Anantpur (Andhra Pradesh) + Er. PP Rao
(Mob: 9491361995)
- 4) Er.. P K Chopra, Senior Test Engineer, Northern Region Farm Machinery Training and Testing Institute (NRFMT&TI), Hisar
- 5) Er. R M Tiwari, Test Engineer, Northern Region Farm Machinery Training and Testing Institute (NRFMT&TI), Hisar

Annexure II

List of Approved Testing Centre

Sl. No.	Name of Centre
47.	Tamil Nadu Agricultural University, Coimbatore- 641 003 (Tamil Nadu)
48.	Punjab Agricultural University, Ludhiana-141 004 (Punjab)
49.	ANGRAU, Hyderabad- 500 030 (Andhra Pradesh)
50.	Maharana Pratap University of Agriculture & Technology, Udaipur- 313 001
51.	Orissa University of Agricultural & Technology, (OUAT), Bhubaneswar - 751 003 (Orissa)
52.	Rajendra Agricultural University, Pusa (Samastipur)-848 125 (Bihar)
53.	Birsa Agricultural University Kanke, Ranchi-834 006 (Jharkhand)
54.	CCS Haryana Agril. University, Hisar-125 004
55.	Govind Ballabh Pant Univ. of Agricultural & Technology, Pantnagar- 263 145 (Uttarakhand)
56.	KAU, Tavanur- 679 573 (Kerala)
57.	University of Agricultural Sciences, Raichur- 584 101 (Karnataka)
58.	Indian Institute of Technology (IIT), Kharagpur-721 302 (West Bengal)
59.	Sam Higginbottom Institute of Agriculture Technology and Science Allahabad – 211 007 (Uttar Pradesh)
60.	Central Institute of Agricultural Engineering, (CIAE) Nabi Bagh, Berasia Road, Bhopal- 462 038 (Madhya Pradesh)
61.	Junagadh Agricultural University, Junagadh-362001 (Gujarat)

62.	Sher-e-Kashmir University of Agril. Science & Technology, Srinagar - 191121 (J. & K.)
63.	University of Agricultural Sciences, Gandhi Krishi Vigyan Kendra (GKVK), Bangalore-560065 (Karnataka)
64.	Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, DAPOLI-415712 Ratnagiri (Maharashtra)
65.	Marathwada Agricultural University, Parbhani-431402 (Maharashtra)
66.	Indian Agricultural Research Institute (IARI), New Delhi – 110 012
67.	College of Agricultural Engineering and Post Harvest Technology, Ranipool, Gangtok-737135 (Sikkim)
68.	State Level Agriculture Implement Testing Centre, Directorate (Agricultural Engineering), Agriculture Department, Chhattisgarh State, Teli Banda, Gorav Path, Raipur (Chhatisgarh)
69.	Jharkhand Agriculture Machinery Testing and Training Centre (JAM-TTC), Department of Agriculture and Cane Development (Directorate of Soil Conservation), Jharkhand, Agricultural Engineering Section at Extension Training Campus, RANCHI (Jharkhand)
70.	State Farm Machinery Training-cum-Testing Institute, Faculty of Agricultural Engineering, Bidhan Chandra Krishi Viswavidyalaya (BCKVV), Mohanpur, Distt. Nadia-741252 (West Bengal)
71.	State Level Farm Machinery Training and Testing Institute Rahmankhera, Lucknow – 227107 (U.P.)
72.	Dr Punjabrao Deshmukh Krishi Vidyapeeth Krishi Nagar, Akola- 444 104 (Maharashtra)
73.	State Farm Machinery Training-cum-Testing Institute, Bhubaneswar (Orissa)

Annexure III

List of Testing Centres attached with FMTTIs

Sl. No.	Name of FMTTI	Name of Centres attached
1.	Director Northern Region Farm Machinery Training & Testing Institute, Tractor Nagar, Sirsa Road, Hissar- 125 001 (Haryana)	<ul style="list-style-type: none"> i) Punjab Agricultural University Ludhiana-141 004 ii) CCS Haryana Agril. University, Hisar iii) Govind Ballabh Pant Univ. of Agricultural & Technology, Pantnagar- 263 145 iv) Sher-e-Kashmir University of Agril. Science & Technology, Srinagar v) Indian Agricultural Research Institute (IARI), New Delhi – 110 012 vi) Maharana Pratap University of Agriculture & Technology, Udaipur- 313 001 vii) State Level Farm Machinery Training and Testing Institute Rahmankhera, Lucknow – 227107
2.	Director, Central Farm Machinery Training and Testing Institute Budni, Madhya Pradesh.	<ul style="list-style-type: none"> i) Sam Higginbottom Institute of Agriculture Technology and Science Allahabad – 211 007 ii) Central Institute of Agricultural Engineering, (CIAE) Bhopal iii) Junagadh Agricultural University, Junagadh-362001 iv) Marathwada Agricultural University, Parbhani v) State Level Agriculture Implement Testing Centre, Directorate (Agricultural Engineering), Agriculture Department, Chhattisgarh State, Teli Banda, Gorav Path, Raipur vi) Dr. PDKV Akola
3.	Director, North Eastern Region Farm Machinery Training and Testing Institute, Sonitpur, Biswanath Chariali (Assam) – 784176.	<ul style="list-style-type: none"> i) Rajendra Agricultural University Pusa (Samastipur ii) Birsa Agricultural University Kanke, Ranchi-834 006 iii) College of Agricultural Engineering and Post Harvest Technology, Ranipool, Gangtok-737135 iv) Jharkhand Agriculture Machinery Testing and Training Centre (JAM-TTC), Department of Agriculture and Cane Development (Directorate of Soil Conservation), Jharkhand, Agricultural Engineering Section at Extension Training Campus, Ranchi v) State Farm Machinery Training-cum-Testing Institute, Faculty of Agricultural Engineering, Bidhan Chandra Krishi Viswavidyalaya (BCKVV), Mohanpur, Distt. Nadia-741252
4.	Director, Southern Region Farm Machinery Training and Testing Institute, Anantpur (Andhra Pradesh)	<ul style="list-style-type: none"> i) Tamil Nadu Agricultural University, Coimbatore ii) ANGRAU Hyderabad- 500 030 iii) Orissa University of Agricultural & Technology, (OUAT), Bhubaneswar - 751 003 iv) KAU, Tavanur- 679 573 v) University of Agricultural Sciences Raichur- 584 101 vi) University of Agricultural Sciences, Gandhi Krishi Vigyan Kendra (GKVK), Bangalore-560065 vii) State Level Farm Machinery Training & Testing Centre, Agriculture Department, Government of Odisha, Bhubaneswar (Odisha)