

# वार्षिक रिपोर्ट/ ANNUAL REPORT

## 2016-17



भारत सरकार

**Government of India**

कृषि एवं किसान कल्याण मंत्रालय

**Ministry of Agriculture and Farmers Welfare**

कृषि, सहकारिता एवं किसान कल्याण विभाग

**Department of Agriculture, Cooperation and Farmers Welfare**

दक्षिणी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

**Southern Region Farm Machinery Training and Testing Institute**

ट्रैक्टर नगर, गार्लदिन्ने - 515 731, जिला: अनंतपुर (आं. प्र.)

**Tractor Nagar, Garladinne- 515 731, District: Anantapur (A.P.)**

**[An ISO 9001:2015 CERTIFIED INSTITUTION]**

Website: <http://srfmtti.dacnet.nic.in/>

E-mail: [fmti-sr@nic.in](mailto:fmti-sr@nic.in)

Tele./FAX: 08551-286441

# ANNUAL REPORT 2016-17



EDITOR : Dr. P.P.RAO, DIRECTOR

Compilation: B. Umamaheswarappa,  
Lib.Inf.Asst.



Published by

**DIRECTOR**

SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE  
TRACTOR NAGAR, GARLADINNE-515 731, District: ANANTAPUR (A.P)

# CONTENTS

<b>Sl.No.</b>	<b>Contents</b>	<b>Page No.</b>
1.	MANDATE	01
2.	THE LOCATION OF INSTITUTE	02
3.	TRAINING ACTIVITIES	03
4.	INFRASTRUCTURE	13
5.	DEMONSTRATION	17
6.	TESTING ACTIVITIES	22
7.	FARM ACTIVITIES	43
8.	ADMIN ACTIVITIES	46

**Being a Farmer means  
Shaking hands with nature**

## HIGHLIGHTS...

- ❖ A total of 96 Test Reports, against the target of 90 reports, have been released by this Institute during 2016-17.
- ❖ A total of 2619 trainees, against the target of 2400 trainees, have been trained by this institute during 2016-17, which is the highest ever annual achievement.
- ❖ A particular attention was given to involve the FARMING COMMUNITY in the training activities. 68% of the total trainees trained, were from Farming Community.
- ❖ 37% of the total trainees trained, were Woman.
- ❖ 10 numbers of trainees trained were from NER.
- ❖ 04 Numbers of trainees trained were from Abroad.
- ❖ Under SAANSAD ADARSH GRAM YOJAN, 40 field demonstrations of developed Agricultural/Horticultural machines were carried out in the FARMERS' fields. This programme covered 40 villages of 5 States. A total of 2206 farmers were benefitted.
- ❖ Under SMAM Field demonstrations of different types of developed Agricultural/Horticultural Machines were carried out in the FARMERS' fields. A total of 1227 farmers were benefitted.
- ❖ Out of Total Trainees trained, 19.3% trainees were from SC, 4.4% from ST & 46.2% from OBC categories.

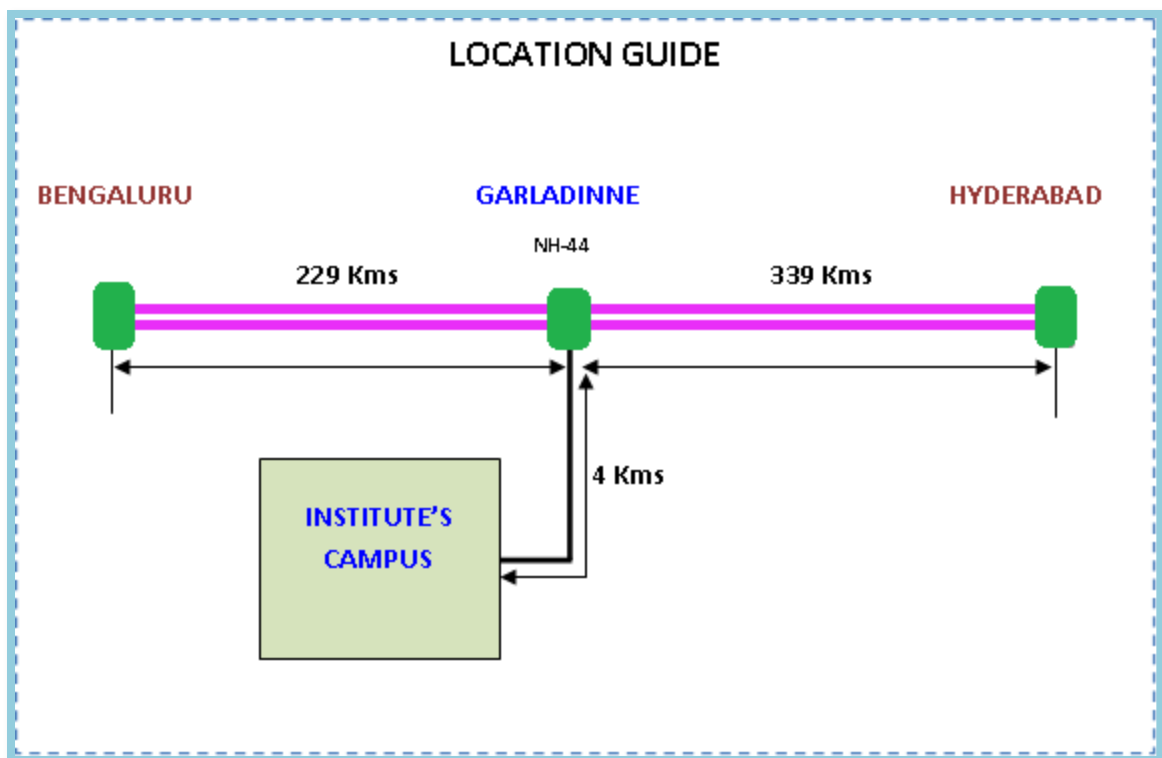
## NEW DEVELOPMENTS

- Office Main Gate has been constructed newly during the year
- The Institute is in conformance with ISO 9001 : 2015 Quality Management System during the year.
- The Institute's Main Entrance gate has been renovated with digital vinyl sticker board.
- One Tempo traveler delivery Van has been purchased exclusively for demonstration of newly developed Agricultural Machinery
- Optical Fiber cable(OFC) was laid during this year for enhancing the quality of Internet speed from 2 mbps to 10 mpbs
- Closed Circuit Cameras have been installed newly during the year for the enhanced security of the Institute.
- New Lawn has been developed along with the plantation of fish tail type palm trees in the premises of Ladies Hostel cum Guest house.
- Gutters of the roof of Test Lab were replaced to avoid leakage of water, Renovation of flooring of Test lab and also a separate underground water tank near to Test Lab was constructed for recirculation of water in Dynamometer during engine test.
- A Children Park was developed after installation of different Play Ground equipments and erected Cement benches during the year.
- Portraits of prominent leaders have been displayed in the entire Admn. Building.
- Farm Ponds were filled with Canal water by which the level of ground water has been increased and because of this, sufficient water is available in the Institute till date for domestic and drinking purpose where as the surrounding villages are deadly suffering from non-availability of domestic as well as even for drinking water also.

## **MANDATE**

- a) To impart training to the Farmers, Technicians, Engineering Students, Nominees of various State Government Organizations, Autonomous Organizations, State Agricultural Universities and Agricultural Machinery Manufacturers; on Selection, Operation, Maintenance and Repair of Agricultural Tractors, Power Tillers, Combine Harvesters and other Agricultural Implements and machinery.
  
- b) To carry out testing on Power Tillers and other Agricultural Implements and Machinery in accordance with BIS/Other National/ International Test Codes.
  
- c) Demonstration of Newly developed/proven agricultural machinery in the FARMERS FIELDS UNDER SAANSAD ADARSH GRAM YOJNA.
  
- d) Demonstration of Newly developed/proven agricultural machinery in the FARMERS FIELDS UNDER SUB-MISSION ON AGRICULTURAL MECHANIZATION.
  
- e) To function as Nodal Agency for a number of testing centers approved by the ministry.
  
- f) To participate in Bureau of Indian Standards programmes for formulation and revision of various Standards and Test Codes related to Agriculture.

## THE LOCATION OF INSTITUTE



## TRAINING ACTIVITIES

### OBJECTIVES OF TRAINING:

- To impart Training in the field of judicious use of various vital agricultural inputs such as Land, Seed, Water, Farm Machinery and available Farm Power.
- To transfer the proven technology from research institutes to the farmers by imparting on-the-job training on them.
- To create awareness for Proper Selection, Operation, Repair, Maintenance and Management of Agricultural Tractors, Power Tillers, Combine Harvesters and other Farm Implements and Machinery.
- To conduct Demonstration of Newly developed/proven agricultural machinery in the FARMERS FIELDS UNDER SAANSAD ADARSH GRAM YOJNA
- To conduct Demonstration of Newly developed/proven agricultural machinery in the FARMERS FIELDS UNDER SUB-MISSION ON AGRICULTURAL MACHANIZATION.
- To upgrade social and Economic condition of the Rural Youth by transforming them into skilled work force.
- To encourage the energy conservation practices in the field of agriculture through various training programmes.
- To conduct awareness programmes on safety in use of agricultural machinery.

### TARGET GROUPS

❖ Farmers	❖ Technicians
❖ Rural Youths	❖ Extension Workers
❖ Nominees of the State/Central/Autonomous Organizations	❖ Sponsored Candidates from various Agricultural Machinery Manufacturers.
❖ Agricultural/Mechanical Engineering Students	❖ Women Farmers



## TRAINING PROGRAMMES

Sl. No.	Name of the Course & Code		Duration of Course	Fees
<b>USER LEVEL COURSES</b>				
1.	U1	Appropriate Mechanization Technology for Energy Management in Agriculture	4 weeks	Free
2.	U2	Selection, Operation, Safety and Maintenance of improved Agricultural machinery	6 weeks	Free
3.	U3	Operation, maintenance and Management of Power Tillers	2 weeks	Free
4.	U5	Gender Friendly Equipments for Women farmers	3 days	Free
5.	U7	Water managements through sprinkler and drip irrigation and water saving devices	1 weeks	Free
6.	U9	Selection, operation and maintenance of improved Harvesting & Threshing machines	2 weeks	Free
7.	U11	Selection, operation and maintenance of agri. Machinery for dry land agriculture	2 weeks	Free
<b>TECHNICIAN LEVEL COURSES</b>				
8.	T1	Repairing and Overhauling of Stationery Engines and Tractors	6 weeks	300/-
9.	T2	Repair & Overhauling of power tillers	2 weeks	100/-
10.	T5	Repair and maintenance of Auto electrical equipments and Battery re-conditioning	3 weeks	150/-
<b>ACADEMIC LEVEL COURSES</b>				
11.	A1	Trg. Programme on Farm Power & Machinery for Degree/Diploma Engg. Students	4 weeks	200/-
12.	A2	Practical Training programme on Farm Power and Machinery for ITI & 10+2 Vocational students	4 weeks	200/-
<b>NEED BASED COURSES</b>				
13.	NB	Need Based Training Programme on Mechanization	As per requirement	1000/-per month(except farmer)
<b>TECHNOLOGY TRANSFER CAMPS-OFF CAMPUS</b>				
14.	TT-1	Energy conservation and safety in farm machinery	1-2 days	Free
<b>MANAGEMENT LEVEL COURSES</b>				
15.	M-1	Testing and Evaluation of Farm Machinery	1 week	1000/-
16.	M-5	Entrepreneurship development to establish custom hiring agro- services centre	8 weeks	200/- per month

## FINANCIAL ASSISTANCE:-

Trainees admitted/sponsored by the state nodal agencies to the User Level Courses at the Institute will be paid stipend @ Rs.500/- per week per trainee. Travel expenses to the trainees admitted in these courses will be paid on actual basis by ordinary mode of transport from their place of residence to this Institute and back.

## TRAINING ACHIEVEMENTS: -

DURING THE YEAR 2016-2017 THE INSTITUTE TRAINED 2619 TRAINEES AGAINST THE TARGET OF ONLY 1400, WHICH IS THE HIGHEST EVER ANNUAL ACHIEVEMENT.

This Institute has trained 31,211 personnel since inception up to March, 2017.

### QUARTER-WISE TRAINEES TRAINED DURING THE YEAR

	1 <sup>st</sup> Quarter (April-June,16)	2 <sup>nd</sup> Quarter (July-Sep,16)	3 <sup>rd</sup> Quarter (Oct-Dec,16)	4 <sup>th</sup> Quarter (Jan-March,17)	Total
Achievement	509	1177	714	219	2619

### CATEGORY-WISE TRAINEES TRAINED DURING THE YEAR

Course name	U	T	A	NB	To/HMO	M1	Total
a) General	151	20	127	472	11/01	03	785
b) SC	163	15	55	262	07/03	01	506
c) ST	24	07	37	43	04/02	-	117
d) OBC	259	48	144	737	13/09	01	1211
Total	597	90	363	1514	35/15	05	2619

### WOMEN/WOMEN FARMERS TRAINED DURING THE YEAR 2016-17

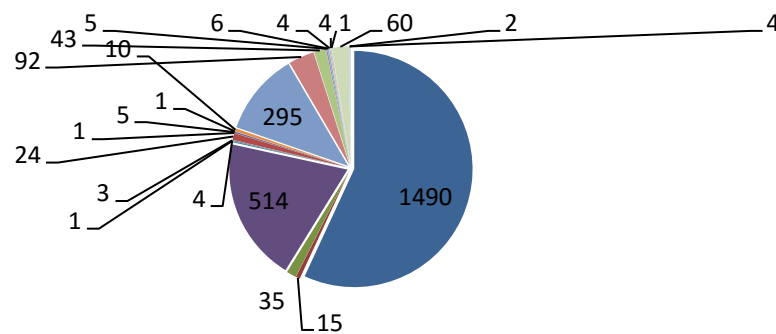
Course Name	U	T	A	NB	TO/HMO	M1	Total
ACHIEVEMENT	482	09	127	348	08/02	-	976(37% of total)

### FARMERS TRAINED DURING THE YEAR 2016-17

Course Name	U	T	A	NB	TO/HMO	M1	Total
ACHIEVEMENT	597	45	241	840	30/19	03	1775 (68% of total)

## STATE-WISE TRAINEES TRAINED DURING THE YEAR 2016-17

Sl. No.	Name of State	Trainees trained
1	Andhra Pradesh	1490
2	Madhya Pradesh	15
3	Maharashtra	35
4	Tamil Nadu	514
5	Rajasthan	04
6	Arunachal Pradesh	01
7	Bihar	03
8	Uttar Pradesh	24
9	Jharkhand	01
10	West Bengal	05
11	Assam	01
12	Haryana	10
13	Karnataka	295
14	Telangana	92
15	Kerala	43
16	Orissa	05
17	Gujarat	06
18	Meghalaya	04
19	Manipur	04
20	Chhattisgarh	01
21	Goa	60
22	Andaman & Nicobar	02
23	Foreign National	04
	<b>TOTAL</b>	<b>2619</b>



## YEAR – WISE TRAINEES TRAINED SINCE INCEPTION

S.No	Year	Target	No. of Trainees trained
1.	1984-85	-	95
2.	1985-86	-	143
3.	1986-87	-	111
4.	1987-88	-	122
5.	1988-89	-	162
6.	1989-90	-	218
7.	1990-91	-	219
8.	1991-92	-	249
9.	1992-93	-	506
10.	1993-94	300	514
11.	1994-95	300	538
12.	1995-96	500	602
13.	1996-97	600	613
14.	1997-98	600	636
15.	1998-99	700	707
16.	1999-2000	700	776
17.	2000-01	850	908
18.	2001-02	850	1177
19.	2002-03	850	857
20.	2003-04	850	981
21.	2004-05	1200	1255
22.	2005-06	1200	1202
23.	2006-07	1200	1212
24.	2007-08	1300	1300
25.	2008-09	1300	1300
26.	2009-10	1300	1451
27.	2010-11	1400	1606
28.	2011-12	1400	1662
29.	2012-13	1400	1666
30.	2013-14	1400	1683
31.	2014-15	1400	1707
32.	2015-16	1400	2414
33.	2016-17	1400	2619
	<b>TOTAL</b>		<b>31,211</b>

# TRAINING



**AUDIO VISUAL TRAINING**



**TRAINING ON TRACTOR**



**A VIEW OF TRAINING CLASS ROOM**



**TRAINING ON TRACTOR DRIVING**



**ENGINE DISMANTLING**



**A CLASS ROOM VIEW**

## Valedictory Function



**(17.09.2016)**





**A Group photo with passing out Trainees  
(30.09.2016)**

## INFRASTRUCTURE AVAILABLE WITH TRAINING SECTION:

### MACHINERY & EQUIPMENTS

▪ Tractors	-	10
▪ Crawler tractors	-	01
▪ Transport vehicles	-	02
▪ Stationery engines	-	09
▪ Irrigation pumps	-	10
▪ Farm Implements	-	245
▪ P.P. Equipments.	-	50
▪ Harvesting & Threshing machines	-	08
▪ Power Tillers	-	04

### DEMONSTRATION/TRAINING LABS

- Irrigation Pumps Lab
- Lab for Hydraulic System Of Tractor
- Tractor Demonstration Lab.
- Plant Protection Equipments Lab.
- Gender-Friendly Equip./Machinery Lab.
- Lab for Power Tiller & Its Matching Implements.
- Processing Machinery Lab.
- Auto Electrical Lab

### DISPENSARY

A Dispensary is being maintained for the benefit of staff and trainees equipped with medicines for first-aid.

### GUEST HOUSE:

Two Guest Houses with modern facilities are available for those want to stay in the campus, out of which one is Ladies Hostel-Cum-Guest House.

**If Conservation of natural resources goes wrong,  
Nothing else will go right**

**-M.S.Swaminathan**

## HOSTELS

One Boy's Hostel and One Ladies Hostel with modest facilities to accommodate about 120 trainees are available.

Free lodging is provided to the trainees in the Hostels. All amenities for boarding are also arranged. Boarding charges are required to be borne by the trainees on co-operative basis. In addition to this, recreation facilities viz. Entertainment Sports etc. are also provided.

### BOYS HOSTEL



### GIRLS HOSTEL CUM GUEST HOUSE



## **LIBRARY & INFORMATION CENTRE:**

The Institute has one Library & Information Centre in place. The Library is well equipped to disseminate information among interested personnel in agricultural development. The Library has adequate space and reading facility to take care of needs of the readers. Valuable collection of reference books on Agriculture Engineering and allied subjects are shelved in the reference section. Multi volume titles of the Encyclopedia, Directories, Dictionaries, Hand Books, maps/atlases, Statistical Survey Reports are available. The Library also subscribes some Indian as well as foreign journals on farm power and machinery. It has been provided with two computers connected with internet access to facilitate the trainees, staff and other information seekers.





**An Inner view of Library**



## 4. DEMONSTRATIONS

### MISSION

To increase the productivity of all agricultural inputs, viz land, seed, fertilizer, water, machinery, labour etc., so as to accomplish the divine duty of providing food fibre to all citizens.

### AIM

To increase the farm mechanization by organizing on-field demonstrations.

### OBJECTIVE

To popularize new agricultural/horticultural equipments, by way of imparting in situ training, on their operation and maintenance to the farmers.

### Demonstrations under SAANSAD ADARSH GRAM YOJANA (SAGY)

<b>Target</b>	<b>40</b>
<b>No.of Demonstrations</b>	<b>40</b>
<b>No.of States Covered</b>	<b>05</b>
<b>No.of Constituencies covered</b>	<b>40</b>
<b>No.of Machines demonstrated</b>	<b>372</b>
<b>No.of Beneficiary</b>	<b>2206</b>

### Demonstrations under SMAM

<b>Target</b>	<b>100</b>
<b>No.of Machines demonstrated</b>	<b>219</b>
<b>No.of Beneficiaries</b>	<b>1227</b>

**IN TRAINING, THERE IS NO  
WINNING OR LOSING  
THERE IS ONLY LEARNING**

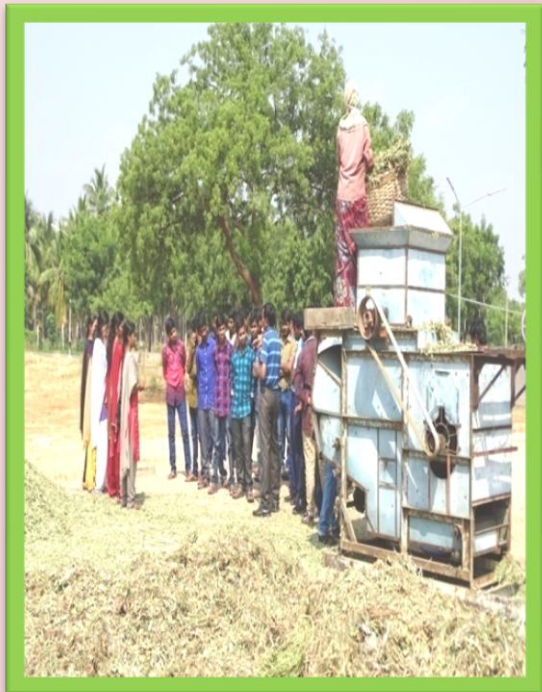
## List of Demonstrations under SAGY conducted During 2016-17

Sl.No.	Date	Name of the Hon'ble M.P/ Constituency	Village	No.of Machines Demonstrated	No.of Beneficiaries
1.	16.05.2016	Shri.Y.S.Chowdary/ Rajya Sabha Member	Ponnavaram/Veerullapadu/ Krishna/Andhra Pradesh	06	51
2.	18.05.2016	Shri. Konakalla Narayana Rao /Machili Patnam	Kankatava/Guduru/Krishna/ Andhra Pradesh	06	55
3.	19.05.2016	Shri.Venkateswara Rao Magantti/Eluru	Pedagonnuru/Mudinepalli/ Krishna/Andhra Pradesh	06	55
4.	07.07.2016	Shri. Mekapati Raja Mohan Reddy/Nellore	Kampa Samudram/ Marripadu/Nellore	06	72
5.	08.07.2016	Shri. Vara Prasad Rao/ Tirupati	Chilakur/Pellakur/Nellore	06	46
6.	11.07.2016	Shri.MidhunReddy/ Rajampeta	Sodam/Sodam/Chittor	06	60
7.	25.07.2016	Shri.Shripad Yesso Naik/ North Goa	Ibrampur/Pernem/North Goa	06	52
8.	29.07.2016	Shri.Advocate Narendra Sawaikar/South Goa	Cola/Canacona/South Goa	06	31
9.	03.08.2016	Shri.Shantaram Naik/ Rajya Sabha Member	Rachol/Salcete/South Goa	07	45
10.	28.08.2016	Shri.J.C.Divakar Reddy/ Anantapur	Peddavadugur/Anantapur/ Andhra Pradesh	10	62
11.	14.09.2016	Shri.Sukendar Reddy Gutha/Nalgonda	Chintakuntla/Devarakonda/ Nagaland/Telangana	08	71
12.	15.09.2016	Shri. Palvai Govardhan Reddy/Rajya Sabha Member	Marriguda/Nalgonda/ Telangana	08	76
13.	16.09.2016	Shri.Boora Narasaiah Goud/Bhongir	Redlarepaka/Valigonda /Nalgonda/Telangana	08	85
14.	17.09.2016	Shri.Devender Goud.T/ Rajya Sabha Member	Harshguda/Maheswaram/ Rangareddi/Telangana	08	71
15.	24.10.2016	Shri.Yerram Venkata Subbareddy/Ongole	Daddawada/Komarolu/ Prakasam/Andhra Pradesh	06	48
6.	27.10.2016	Shri Sriram Malyadri/ Bapatla	Ramkuru/ Janakavarampanguluru/ Prakasam/Andhra Pradesh	08	53
17.	19.11.2016	Shri.Lakshmanan Ramamoorthy/ Rajya Sabha Member	Haledharmapuri/Dharmapu ri Tamil Nadu	10	77
18.	21.11.2016	Smt.Vijila Sathyananth/ Rajya Sabha Member	Konanginaikana/Halli/ Dharmapuri/Dharmapuri/ Tamilnadu	12	98

19.	22.11.2016	Shri.T.Rathinavel/ Rajya Sabha Member	Annamalahalli/ Karimangalam/Dharmapuri/ Tamilnadu	12	54
20.	23.11.2016	Shri.Rabi Bernard A.W./ Rajya Sabha Member	Gendanahalli/Palacode/ Dharmapuri/Tamilnadu	12	81
21.	24.11.2016	Dr.Maitreyan V/ Rajya Sabha Member	Palavadi/Nallampalli/ Dharmapuri/Tamilnadu	11	58
22.	25.11.2016	Shri.K.R.Arjunan/ Rajya Sabha Member	Arakasanahalli/Pennagaram/ Dharmapuri/Tamilnadu	12	55
23.	26.11.2016	Shri.Selvaraj.A.K/ Rajya Sabha Member	Basuvapuram /Morappur/ Dharmapuri/Tamilnadu	10	75
24.	27.11.2016	Shri.Paul Manoj Pandian/ Rajya Sabha Member	Thovala/Thovala/ Kanniyakumari/Tamilnadu	10	36
25.	28.12.2016	Shri.S.Muthukaruppan/ Rajya Sabha Member	Madhavalayam/ Kanniyakumari/Tamilnadu	10	18
26.	28.11.2016	Smt.Pon Redhakrishnan/ Kanniyakumari	Muthalakurichi/Thuckalay/ Kanniyakumari/Tamilnadu	10	77
27.	29.11.2016	Shri.S.Thangavelu/ Rajya Sabha Member	Vadakkupudur/Sankarankoil/ Tirunelveli/Tamilnadu	10	27
28.	30.11.2016	Shri.T.Radhakrishnan/ Virudhunagar	Saminatham /Sivakasi/ Virudhunagar/Tamilnadu	10	19
29.	31.12.2016	Shri.M.Udhayakumar/ Dindigul	Ragalapuram/Shanarpatti/ Dindigul/Tamilnadu	10	27
30.	02.01.2017	Shri.R.Parthipan/ Theni	Rasingapuram/ Bodinaickanur/Theni/Tamilnadu	10	28
1.	03.01.2017	Dr.Munisamy Thambidurai/Karur	Palaviduthi/Kadavur/Karur /Tamilnadu	10	51
32.	02.02.2017	Smt.Gundu sudharani/ Rajya Sabha Member	Neerukulla/Atmakur/ Warangal/Telangana	10	62
33.	03.02.2017	Shri.Bandaru Dattatreya/ Secindrabad	Annaram/Parvathagiri/ Warangal/Telangana	10	69
34.	04.02.2017	Shri.Srihari Kadiyam/ Warangal	Inole/Wardhannapet/ Warangal/Telangana	10	09
35.	06.02.2017	Shri.Annada Bhaskar Rapolu/ Rajya Sabha Member	Edunuthula/Kodakandla/ Warangal/Telangana	10	65
6.	28.02.2017	Shri Ranga saiye Ramakrishana/ Rajya Sabha Member	Rajankunte/Bangalore/urban/ Karnataka	10	43
37.	02.03.2017	Shri.P.C.Mohan/ Bangalore Central	Kannur(VII) Bangalore (Urban)/ Karnataka	10	42
38.	03.03.2017	Shri.C.S.Puttta Raju/ Mandya	T.S.Chtra(Vill) Mandya(Dist)/Karnataka	10	46
39.	04.03.2017	Shri.Venkaiah Naidu/ Rajya Sabha Member	Yeliyur(Vill) Bangalore/Karnataka	10	42
40.	05.03.2017	Shri.Ananta Kumar/ Bangalore South	Ragi Halli(Vill) Bangalore (Urban)/Karnataka	10	54



# DEMONSTRATION





## TESTING

### **OBJECTIVES: -**

1. To conduct testing on Power Tillers and Other Agricultural Machinery with a view to assess their functional suitability and performance characteristics under different agro climatic conditions so that the published test results would: -
  - Serve as a basis to decide the suitable machinery for different agro climatic conditions of the country, which may further be encouraged for production and popularization.
  - Help the farmers and other prospective purchasers in determining the comparative performance of machinery available in the market.
  - Provide material to researchers/designers for undertaking development work on agricultural machinery, engineers and extension workers for guiding farmers and other users in proper selection of equipment.
  - Help financial Institutions in recommending financial assistance to the manufacturers as well as to the farmers.
2. To maintain a check over the quality of Power Tillers through “Batch Testing” programme. It also aims at assisting the manufacturers in the product improvement and facilitates them updating the specifications of their machines.
3. To assist Bureau of Indian Standards in the formulation of various standards on agricultural implements and machines.

### **POWER TILLER TESTING – WHY ?**

Though the Institute had ushered in testing activities in 1990, but scope of testing was limited to the testing of Farm Implements and Machinery. It was in the year 2006-07 that the Institute expanded its profile and started testing of Power Tillers also. The necessity of testing of Power Tillers in the present scenario assumes even greater in the light of following facts:

- As of now there are about 25 units in India in the field of manufacturing/ assembling the power tillers.
- Most of them are only assembling the completely knocked down units (from China, Thailand etc.) for marketing in India.

- Initial Commercial Test of power tiller is considered compulsory to assess the field worthiness of power tiller in Indian conditions (as envisaged in ministry's memorandum No. 7-37/98-My(I&P) Part-III dated 16.04.2001).

- It would be in the interest of buyers- especially now a days when most of the power tillers are just assembled from CKD units- to seek loan for proven machines only. Even otherwise, it is in the interest of buyers to procure only dependable machines. To serve to this purpose of buyers, power tiller testing should be mandatory.

- It would be in the interest of financing Institutions also to grant the loan for tested machines only. This also necessitates the mandatory testing of power tillers.

- As a matter of fact, the Industry, NABARD, ICAR, CFMTTI BUDNI & Other Institutes have gone unanimously to recommend to formulate Minimum Performance Standards (MPS for short) for power tillers, which now serve as a criteria for their financing, vide Ministry's memorandum No. 7-37/98-My(I&P)-Part-III dated 16.04.2001. The underlying concept is that power tiller test should be compulsory to assess their compliance to MPS.

- The IS 13539:2008 provides some requirements as "**Evaluative Requirements**". These are the ones which are **mandatory for acceptance of power tiller for purpose of subsidy/ NABARD financing**. In view of this there is every reason to make power tiller testing mandatory.

- Clause 5.1 of IS 13539:2008 lays down the acceptance criteria in case of Break down/ defects, according to which, a power tiller may be accepted subject to the following conditions.

- a) There is no 'critical breakdown' during its validation after all tests including repeat/ supplementary tests;
- b) There are not more than two 'major breakdowns' and neither of them is of repetitive nature; and
- c) There are not more than five 'minor defects' during the test and the frequency of each is not more than two.

In no case, the total number of breakdowns should exceed five, that is (2 Major + 3 Minor) or 5 minor breakdowns.

Thus, in order to assess the robustness/ reliability of the machine, mandatory testing of power tiller is considered necessary.

- Apart from the above, testing of power tillers should be made mandatory because:

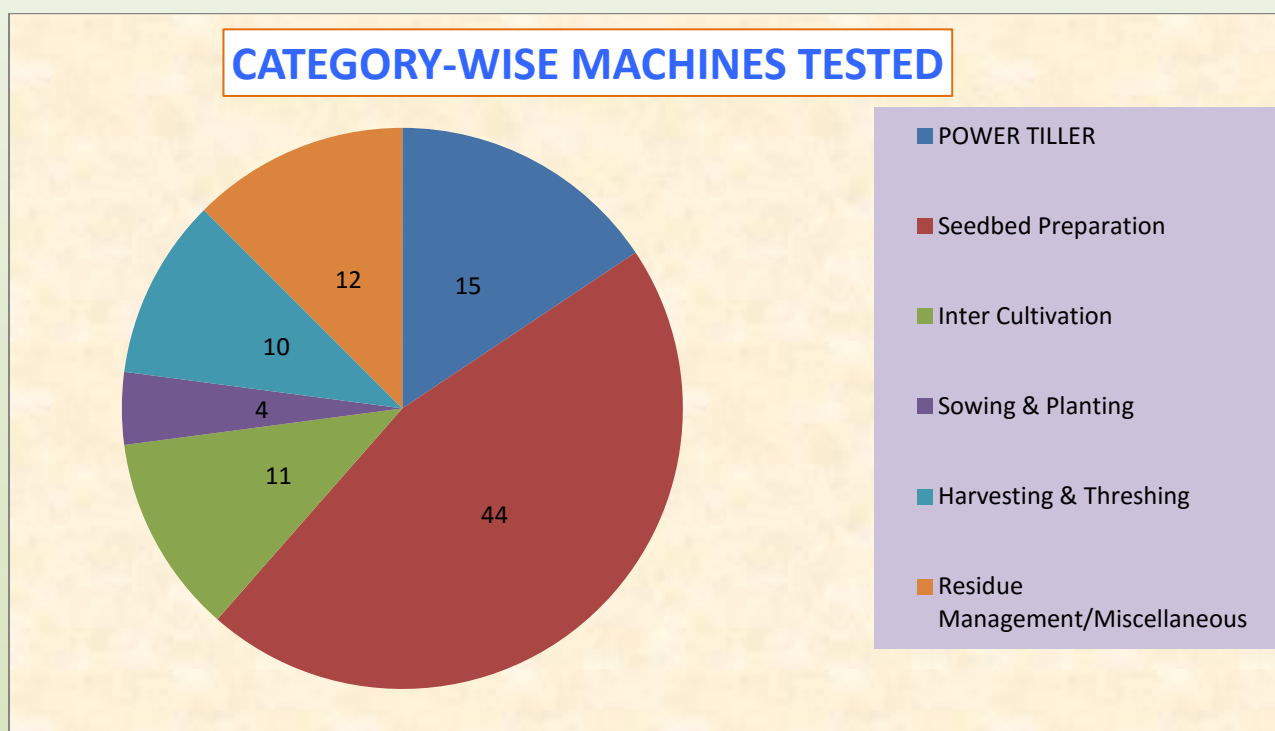
- a) It helps the farmers in determining the comparative performance of machines available in the market.
- b) It provides inputs to research/ design peoples for undertaking development work on machines.

## TESTING ACHIEVEMENTS

**THE INSTITUTE HAS RELEASED 96 TEST REPORTS DURING THE YEAR 2016-17 AGAINST THE TARGET OF 90 TEST REPORTS**

### CATEGORY-WISE MACHINES TESTED DURING THE YEAR 2016-17

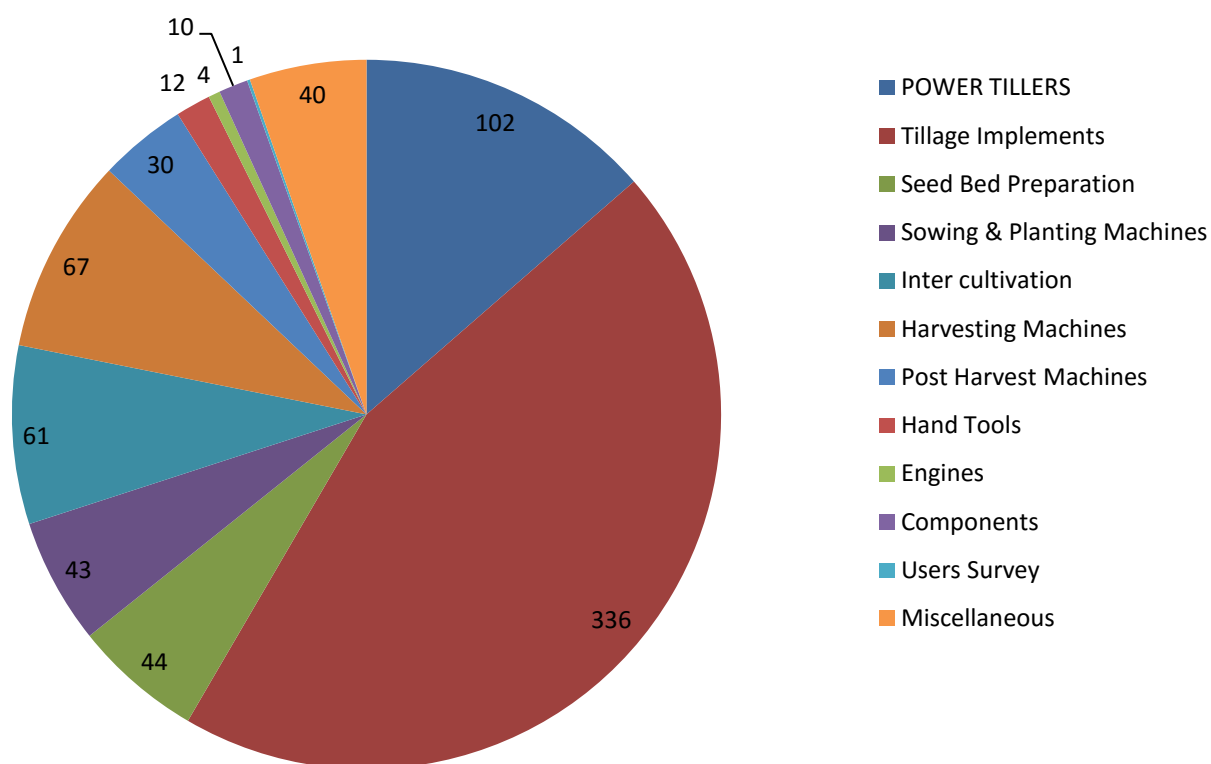
POWER TILLER	15
Seedbed Preparation	44
Inter Cultivation	11
Sowing & Planting	04
Harvesting & Threshing	10
Residue Management/Miscellaneous	12
Total	<b>96</b>



## CATEGORY-WISE MACHINES TESTED SINCE INCEPTION

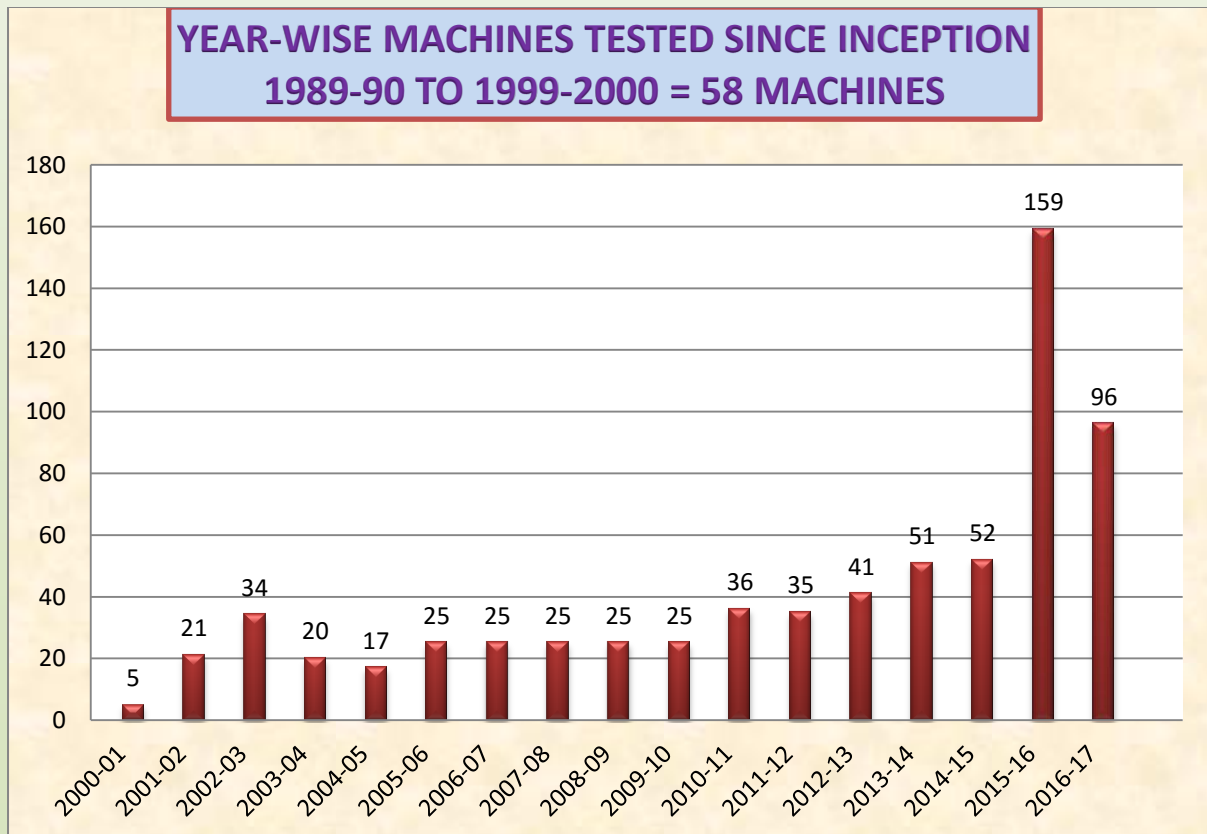
<b>POWER TILLERS</b>	<b>102</b>
Tillage Implements	336
Seed Bed Preparation	44
Sowing & Planting Machines	43
Inter cultivation	61
Harvesting Machines	67
Post Harvest Machines	30
Hand Tools	12
Engines	04
Components	10
Users Survey	01
Miscellaneous	40
<b>Total</b>	<b>750</b>

### CATEGORY-WISE MACHINES TESTED SINCE INCEPTION



**YEAR-WISE MACHINES TESTED SINCE INCEPTION**  
**1989-90 TO 1999-2000=58 MACHINES**

Sl.No.	Year	Machines Tested
1.	2000-01	5
2.	2001-02	21
3.	2002-03	34
4.	2003-04	20
5.	2004-05	17
6.	2005-06	25
7.	2006-07	25
8.	2007-08	25
9.	2008-09	25
9.	2009-10	25
10.	2010-11	36
11.	2011-12	35
12.	2012-13	41
13.	2013-14	51
14.	2014-15	52
15.	2015-16	159
16.	2016-17	96
	<b>Total</b>	<b>692</b>



## **TESTING CHARGES**

<b>Sl. No.</b>	<b>Item</b>	<b>Testing Charges</b>
1.	Power Tiller (Both ICT & Batch Test)	6,06,528
1	Components	9236
2	Hand tools	9236
3	Power operated thresher, decorticator, sheller, winnowers etc.	36918
4	Animal drawn equipments	19693
5	Tractor drawn/operated implements/equipments	62764
6	Manually operated equipment	17844
7	Power tiller driven/self propelled reaper etc.	36918
8	Tractor drawn/operated seed cum fertilizer drill/planter, straw reaper, Mini rice mill, power seed cleaner/grader	65837
9	Animal drawn Multi tool bar (Minimum for attachments)	52297
10	Self Propelled Paddy transplanter	89833
11	Power operated Multi-crops thresher (Two or more crops)	67686

**Science is organized knowledge**

**Wisdom is organized life**





## TESTING LOGISTICS AVAILABLE

Test laboratory of the Institute is well equipped with modern and sophisticated instruments to carry out the tests on various Agricultural machines. The list of major testing logistics available with the institute are given as under.

S. No	Name of the equipment	Particulars	Number
(1)	(2)	(3)	(4)
<b>A) POWER MEASUREMENT</b>			
1.	Eddy current dynamometer	70 ps/ 10000 rpm	1
2.	Schenck Avery Dynamometer Model W400	Model W400	1
3.	Eddy Current Dynamometer Model 30 EC 2-6.5	30 ps/6500 rpm	1
4.	Gravimetric Fuel Flow Meter	-	1
5.	Locally made Loading Car	0-2000 kg	1
5.	Smoke Meter	Model: AVL 437	1
6.	Noise Level Meter	Bruel & Kjar Model: 2239	2
7.	VMF Vibration measurement meter	Model: VM30-H	2
<b>B) EQUIPMENT FOR PULL MEASUREMENTS</b>			
1.	SYSCON Digital load Cell with Indicator	2 & 4 Ton	2+1
2.	Pull/ Push Force Sensor Make: Industrial Engineering Instruments	1000N & 1000N	2
3.	Gear Shifting Force Meter Make: Industrial Engineering Instruments	X100N & Y100N	-
<b>C) MATERIAL TESTING</b>			
1.	Hardness testing machine	0-100 HRC	1

<b>D) INSTRUMENTS (General Measurements)</b>			
1.	Mitutoyo Inside micrometer	0-25, 25-50, 50-75	1 each
2.	Cylinder Bore gauge	50-150 mm	1
3.	Outside micrometer	0-150 mm	1
4.	Magnetic Dial gauge	0-150 mm	1
5.	Digital vernier calliper	0-200 & 0-300 mm	1
6.	Depth gauge micrometer	0-25, 0-100, 0-150 mm	1
7.	Bore gauge	12-20, 20-50, 50-100, 100-200 mm	1 set
8.	Three point depth gauge	0-120 mm	1
9.	Digital Inclinator	-	2
<b>E) SOIL TESTING EQUIPMENTS</b>			
1.	Cone penetrometer	-	1
2.	Bulk density test apparatus	1000 cc	1
<b>F) VACUUM &amp; PRESSURE MEASUREMENTS</b>			
1.	Fortin Barometer	-	2
2.	Portable barometer	940-1060 mm Hg	1
3.	Vacuum Gauge	0 – 760 mm Hg	1
4.	Pressure Gauges	0-75 Kg/cm <sup>2</sup>	1
<b>G) SPEED, TIME &amp; DISTANCE MEASUREMENTS</b>			
1.	Digital hand tachometers	9999 rpm	3
2.	RPM counter with magnetic pickup	9999 rpm	1
3.	Digital stop watches	-	5
<b>H) MASS MEASUREMENTS</b>			
1.	Precision digital top loading balance	0 – 20 kg	1
2.	Physical Balance	100 g	1
3.	Avery Platform balance	0 – 200 kg	1
4.	Spring balance	0-50, 0-100 kg	1 each
5.	Digital weighing bridge	0 – 5000 kg	1
6.	Digital Electronic balance	1.0, 2.0 & 5.0 kg	1 each

<b>I) MOISTURE MEASUREMENT</b>			
1.	Hot air oven	Up to 300°c	1
2.	Speedy moisture tester	0 – 25%	1
<b>J) AIR VELOCITY MEASUREMENTS</b>			
1.	Anemometer (Van type)	0.4 – 30 m/s	1
<b>K) OTHER INSTRUMENTS</b>			
1.	Pressure transducer with digital indicator for measurement of exhaust gas	0 – 10 kg/cm <sup>2</sup>	1
2.	Vacuum transducer with digital indicator for measurement of intake gas	0 – 760 mm of Hg	1
3.	Vacuum transducer with digital indicator	0 – 760 mm of Hg	1
4.	Temperature sensors	P & K type	5 each
5.	Tractors	---	4 No.
6.	Two Wheel Tipping Trailer	3 Tonne	1
<b>L) New Instruments Purchased</b>			
1.	Digital Psychrometer	R-tek Model: RT/ET-931	1
2.	Digital Thermo Meter	IEICOS Model: HTC-1	1
3.	Soil Moisture Meter	Lutron Model: PMS714	1
4.	Button type Load Indicator SPL (Break Test Equipment)	Make Industrial Engineering Instruments	1
5.	Digital Rockwell cum Brinell Hardness Testing machine	BIE Model:TRB-250DN	1
6.	Digital Stop Watch	Racer	-

Learning without thought is labor lost;  
thought without learning is perilous.

### LIST OF MACHINES TESTED DURING 2016-17

Sl. No.	Name of Machine/ Implement	Make & Model	Name of Applicant/ Manufacturer	Test Report No.	Type of test
1	2 Bottom Disc Plough (Tractor Mounted)	Andavar AES 2 BDP	Andavar Engineering & Services, 1 <sup>st</sup> Division 6 <sup>th</sup> Ward, Chamarajanagar Main Road, Gundalpet, Chamarajanagar Dist., Karnataka State - 571 111.	IMP-368/655	Commercial
2	5 Bottom Cultivator (Tractor Mounted)	Andavar AES 5DF	Andavar Engineering & Services, 1 <sup>st</sup> Division 6 <sup>th</sup> Ward, Chamarajanagar Main Road, Gundalpet, Chamarajanagar Dist., Karnataka State - 571 111.	IMP-369/656	Commercial
3	Two Bottom Mould Board Plough (Tractor Mounted)	SMGE 2MBP	Sirigeri Mohammed Ghouse Engineerings, Auto Nagar, Anantapur Road, Bellary, Karnataka - 583 101	IMP-370/657	Commercial
4	7 Bottom Cultivator (Tractor Mounted)	SMGE 7 DF	Sirigeri Mohammed Ghouse Engineerings, Auto Nagar, Anantapur Road, Bellary, Karnataka - 583 101	IMP-371/658	Commercial
5	Puddler with Half Cage Wheels (Tractor Mounted)	SMGE 12 DP	Sirigeri Mohammed Ghouse Engineerings, Auto Nagar, Anantapur Road, Bellary, Karnataka - 583 101	IMP-372/659	Commercial
6	9 Tyne Rigid Cultivator (Tractor Mounted)	Fizba 9RTC	Fizba Engineering, Sirigeri, Siruguppa Taluk, Bellary - 583 120, Karnataka.	IMP-373/660	Commercial
7	Peg Type Puddler with Full Cage Wheels (Tractor Mounted)	Fizba PPFCW	Fizba Engineering, Sirigeri, Siruguppa Taluk, Bellary - 583 120, Karnataka.	IMP-374/661	Commercial
8	<b>Power Tiller</b>	Shrachi Champion	M/s. Bengal Tools Limited (Agro Div.), 2nd Jessore Road, Kolakata - 700 028, West Bengal.	PT-88/662	Commercial (BATCH)
9	Brush Cutter	Blue Star BS 535	M/s. Blue Star Trading Corporation, # 36, BHCS Layours, BMTc Bus Stand Road, Chandra Layout, Vijayanagar, Bangalore - 560 040, Karnataka.	Machine-145/663	Commercial

10	Brush Cutter	Blue Star BS 550	M/s. Blue Star Trading Corporation, # 36, BHCS Layours, BMTC Bus Stand Road, Chandra Layout, Vijayanagar, Bangalore - 560 040, Karnataka.	Machine-146/664	Commercial
11	Chain Saw	Blue Star BS 5800	M/s. Blue Star Trading Corporation, # 36, BHCS Layours, BMTC Bus Stand Road, Chandra Layout, Vijayanagar, Bangalore - 560 040, Karnataka.	Machine-147/665	Commercial
12	Power Weeder	Ganga 105	M/s. Ganga High Tech Pvt. Ltd., (Formerly Ganga Motors), 23-Ganesh Chandra Avenue, Kolkata - 700 013, West Bengal.	Machine-148/666	Commercial
13	Chain Saw	Farmak FM 5430	M/s. V.R. Agro Equipments, # 7-299, Veera Reddy Building, Allagadda, Kurnool (Dist.) - 518543, Andhra Pradesh.	Machine-149/667	Commercial
14	Power Weeder	XYLEM SS-203	M/s. Shri Shivashakthi Agro Service, 117/1, Railway Station Road, Ayothiyapattanam, Salam - 636 103, Tamil Nadu	Machine-150/668	Commercial
15	Power Weeder	XYLEM SS-135	M/s. Shri Shivashakthi Agro Service, 117/1, Railway Station Road, Ayothiyapattanam, Salam - 636 103, Tamil Nadu	Machine-151/669	Commercial
16	Rotavator (Tractor Mounted)	FortuneAgro FAI-FRV6 HD	M/s. Fortune Agro Impex, Fortune House, No. 343, 9 <sup>th</sup> Block, Sir M.Visvesvaraya Layout, Kengunte First Main Road, (Mallathalli Lake Road), Bangalore - 560 056, Karnataka	IMP-375/670	Commercial
17	9 Tyne Spring Loaded Cultivator (Tractor Mounted)	FortuneAgro FAI-SC9 HD	M/s. Fortune Agro Impex, Fortune House, No. 343, 9 <sup>th</sup> Block, Sir M.Visvesvaraya Layout, Kengunte First Main Road, (Mallathalli Lake Road), Bangalore - 560 056, Karnataka	IMP-376/671	Commercial

18	9 Tyne Rigid Cultivator (Tractor Mounted)	FortuneAgro FAI-RC6 HD	M/s. Fortune Agro Impex, Fortune House, No. 343, 9 <sup>th</sup> Block, Sir M.Visvesvaraya Layout, Kengunte First Main Road, (Mallathalli Lake Road), Bangalore - 560 056, Karnataka	IMP-377/672	Commercial
19	Terracer Blade (Tractor Mounted)	FortuneAgro FAI-LB 78 HD	M/s. Fortune Agro Impex, Fortune House, No. 343, 9 <sup>th</sup> Block, Sir M.Visvesvaraya Layout, Kengunte First Main Road, (Mallathalli Lake Road), Bangalore - 560 056	IMP-378/673	Commercial
20	Rotavator (Tractor Mounted)	Sai Peera PVS-SPR	Sai Peera Tractor Works, Beside Naresh Complex, Gangavathi Road, Sindhanur, Raichur (District),Karnataka-584128.	IMP-379/674	Commercial
21	Paddy Thresher	SBI 4WMCT	Sri Balaji Industries, 622/1, ELGI Industrial Area, Trichy Road, Singanullu, Coimbatore- 641 005	Th-29/675	Commercial
22	6 Row Walk Behind Rice Transplanter	Yanmar AP6	Yanmar Coromandel Agrosolutions Pvt. Ltd., SPIC Annexe Building, Mount Road, Guindy, Chennai - 600 032, Tamil Nadu	Machine-152/676	Commercial
23	Self Propelled Walk Behind Rice Transplanter	RI AGRI 2ZS-4	Rajalakshmi Implements, #87, G.S.T. Road, Pulipakkam, Chengalpattu - 603 002, Tamil nadu.	Machine-153/677	Commercial
24	Self Propelled Walk Behind Rice Transplanter	RI AGRI 2ZS-6	Rajalakshmi Implements, #87, G.S.T. Road, Pulipakkam, Chengalpattu - 603 002, Tamil nadu.	Machine-154/678	Commercial
25	Three Bottom Mould Board Plough (Tractor Mounted)	Andavar AES 3 BMBP	Andavar Engineering & Service, 1st division, 6th ward, Chamrajanagar Main Road, Gundalpet-571 111, Karnataka state.	IMP-380/679	Commercial
26	Nine Tine Spring Loaded Cultivator (Tractor Mounted)	Andavar AES 9 TC (Tractor Mounted)	Andavar Engineering & Service, 1 <sup>st</sup> division, 6 <sup>th</sup> ward, Chamrajanagar Main Road, Gundalpet-571 111, Karnataka state.	IMP-381/680	Commercial

27	Power Tiller Operated Trailer (Wheel Barrow)	Sri Mallikarjuna Agro SMA PTT 1	Sri Mallikarjuna Agro, Plot No. 61, 1st Main Auto Complex, Shimoga (Distt.), Pin code - 577 204, Karnataka.	T-1/681	Commercial
28	Rotavator (Tractor Mounted)	Vinayaka V 36	Sri Vinayaka Engineering & Agro Equipments, G.B.N. Road, Madhugiri-572 132, Tumkur district, Karnataka.	IMP-382/682	Commercial
29	Puddler with Full Cage Wheels (Tractor Mounted)	Vinayaka V 12	Sri Vinayaka Engineering & Agro Equipments, G.B.N. Road, Madhugiri-572 132, Tumkur district, Karnataka.	IMP-383/683	Commercial
30	Single Bottom Mould Board Plough (Tractor Mounted) (Incomplete)	Andavar AES 1 BMBP	Andavar Engineering & Service, 1 <sup>st</sup> division, 6th ward, Chamrajanagar Main Road, Gundalpet-571 111, Karnataka state.	IMP-384/684	Commercial
31	Power Weeder	Shrachi 100H	M/s. BTL EPC LTD. (Agro), #2 Jessore Road, Kolkata - 700 028, West Bengal.	Machine-155/685	Commercial
32	Power Weeder	Divya Shakti DS-105	M/s. Chirag Corporation, 320, Marshall House, 33/1, N.S. Road, Kolkata-700 001, West Bengal.	Machine-156/686	Commercial
33	Seed Cum Fertilizer Drill (Tractor Mounted)	Vinayaka V 08	Sri Vinayaka Engineering & Agro Equipments, GBN Road, Madhugiri, Thumkur Dist., Karnataka - 572 132.	IMP-385/687	Commercial
34	Three Bottom Mould Board Plough (Tractor Mounted)	Saheel YA ALI 3 MBP	M/s. Saheel General Engineering Works, D. No. 535, W. No. 21, Ya Ali Compound No.-1, Adoni Road, Sirguppa - 583 121, Dist. Bellary, State: Karnataka.	IMP-386/688	Commercial
35	TWO Bottom Mould Board Plough (Tractor Mounted)	Saheel YA ALI 2 MBP	M/s. Saheel General Engineering Works, D. No. 535, W. No. 21, Ya Ali Compound No.-1, Adoni Road, Sirguppa - 583 121, Dist. Bellary, State: Karnataka.	IMP-387/689	Commercial



36	Nine Tine Rigid Cultivator (Tractor Mounted)	Saheel YA ALI 9 RTC	M/s. Saheel General Engineering Works, D. No. 535, W. No. 21, Ya Ali Compound No.-1, Adoni Road, Sirguppa - 583 121, Dist. Bellary, State: Karnataka.	IMP-388/690	Commercial
37	Peg Type Puddler with Full Cage Wheels (Tractor Mounted)	Saheel YA ALI PPWFCW	M/s. Saheel General Engineering Works, D. No. 535, W. No. 21, Ya Ali Compound No.-1, Adoni Road, Sirguppa - 583 121, Dist. Bellary, State: Karnataka.	IMP-389/691	Commercial
38	Blade Harrow (Tractor Mounted)	Saheel YA ALI BH	M/s. Saheel General Engineering Works, D. No. 535, W. No. 21, Ya Ali Compound No.-1, Adoni Road, Sirguppa - 583 121, Dist. Bellary, Karnataka.	IMP-390/692	Commercial
39	Terracer Blade (Tractor Mounted)	Saheel YA ALI LB	M/s. Saheel General Engineering Works, D. No. 535, W. No. 21, Ya Ali Compound No.-1, Adoni Road, Sirguppa - 583 121, Dist. Bellary, State: Karnataka.	IMP-391/693	Commercial
40	Five Bottom Cultivator (Tractor Mounted)	Saheel YA ALI 5 DF	M/s. Saheel General Engineering Works, D. No. 535, W. No. 21, Ya Ali Compound No.-1, Adoni Road, Sirguppa - 583 121, Dist. Bellary, Karnataka.	IMP-392/694	Commercial
41	Puddler with Half Cage Wheels (Tractor Mounted)	Saheel YA ALI DPHC	M/s. Saheel General Engineering Works, D. No. 535, W. No. 21, Ya Ali Compound No.-1, Adoni Road, Sirguppa - 583 121, Dist. Bellary, Karnataka.	IMP-393/695	Commercial
42	Five Bottom Cultivator	Vinayaka V 5 BC	Sri Vinayaka Engineering & Agro Equipments, GBN Road, Madhugiri, Thumkur Dist., Karnataka - 572 132.	IMP-394/696	Commercial
43	Two Bottom Reversible Disc Plough (Tractor Mounted)	Vinayaka V 4 RDP	Sri Vinayaka Engineering & Agro Equipments, GBN Road, Madhugiri, Thumkur Dist., Karnataka - 572 132.	IMP-395/697	Commercial

44	Rotavator (Tractor Mounted)	Vinayaka V 30	Sri Vinayaka Engineering & Agro Equipments, G.B.N. Road, Madhugiri-572 132, Tumkur district, Karnataka.	IMP- 396/698	Commercial
45	Rotavator (Tractor Mounted)	Vinayaka V 42	Sri Vinayaka Engineering & Agro Equipments, G.B.N. Road, Madhugiri-572 132, Tumkur district, Karnataka.	IMP- 397/699	Commercial
46	Blade Harrow (Tractor Mounted)	Vinayaka V BH	Sri Vinayaka Engineering & Agro Equipments, G.B.N. Road, Madhugiri-572 132, Tumkur district, Karnataka.	IMP- 398/700	Commercial
47	Nine tine rigid cultivator (Tractor Mounted)	Vinayaka V 9 RTC	Sri Vinayaka Engineering & Agro Equipments, G.B.N. Road, Madhugiri-572 132, Tumkur district, Karnataka.	IMP- 399/701	Commercial
48	Power Weeder	Sri Sakthi 135	Sri Sakthi Farm Equipments, 110/2,Pudukottai Street, Poosaripatti P.O, Omlaur T.K., Salem Dt., Tamil Nadu-636305.	Machine- 157/702	Commercial
49	Rotavator (Tractor Mounted)	SBI AKASH 5 SSGD	Sri Balaji Industries, 622/1, ELGI Industrial Area, Trichy Road, Singanullaur , Coimbatore, Tamil Nadu-641 005.	IMP- 400/703	Commercial
50	Rotavator (Tractor Mounted)	SBI AKASH 6 MSCD	Sri Balaji Industries, 622/1, ELGI Industrial Area, Trichy Road, Singanullaur , Coimbatore, Tamil Nadu-641 005.	IMP- 401/704	Commercial
51	<b>Power Tiller</b>	VST Shakti 135 DI-ULTRA	M/s. VST Tillers Tractors Ltd., P.B. No. 4801, Mahadevapura Post, Whitefield Road, Bangalore - 48, Karnataka - 560 048.	PT-89/705	Commercial (ICT)
52	<b>Power Tiller</b>	VST Shakti 135 DI-ULTRA . S	M/s. VST Tillers Tractors Ltd., P.B. No. 4801, Mahadevapura Post, Whitefield Road, Bangalore - 48, Karnataka - 560 048.	PT-90/706	Commercial (ICT)
53	<b>Power Tiller</b>	VST Shakti 130 DI . S	M/s. VST Tillers Tractors Ltd., P.B. No. 4801, Mahadevapura Post, Whitefield Road, Bangalore - 48, Karnataka - 560 048.	PT-91/707	Commercial (ICT)

54	<b>Power Tiller</b> (Tilling Type)	VST Shakti 072	M/s. VST Tillers Tractors Ltd., P.B. No. 4801, Mahadevapura Post, Whitefield Road, Bangalore - 48, Karnataka - 560 048.	PT-92/708	Commercial (ICT)
55	<b>Power Tiller</b>	Divya Shakti Super	M/s Chirag Corporation, Agro Equipment Division, 320, Marshall House, 33/1. N.S. Road, Kolkata - 700 001 West Bengal	PT-93/709	Commercial (ICT)
56	<b>Power Tiller</b>	Shrachi All Rounder	M/s. Bengal Tools Limited (Agro Div.), 2 <sup>nd</sup> Jessore Road, Kolkata - 700 028, West Bengal	PT-94/710	Commercial (BATCH)
57	<b>Power Tiller</b>	Vijay VR-15 L	M/s. Vijay Engineering & Machinery Company, 1420, 'C', Laxmipuri, Kolhapur - 416 002 - Maharashtra State, India	PT-95/711	Commercial (BATCH)
58	Rotavator (Tractor Mounted)	TAFE 615 VXZ	Tractors and Farm Equipment Limited, P.O. Box No. 3302, 35, Mahathma Gandhi Road, Nungambakkam, Chennai - 600034	IMP-402/712	Commercial
59	Rotavator (Tractor Mounted)	TAFE 717 VX	Tractors and Farm Equipment Limited, P.O. Box No. 3302, 35, Mahathma Gandhi Road, Nungambakkam, Chennai - 600 034	IMP-403/713	Commercial
60	Rotavator (Tractor Mounted)	TAFE 512 VX	Tractors and Farm Equipment Limited, P.O. Box No. 3302, 35, Mahathma Gandhi Road, Nungambakkam, Chennai - 600 034	IMP-404/714	Commercial
61	<b>Power Tiller</b>	Sigma Plus V2 EM	M/s. Sigma Power Tiller Private Limited, 272, Maarshall House, 25 Strand Road, Kolkata - 700 001, West Bengal.	PT-96/715	Commercial (BATCH)
62	Self propelled cultivator	Varun Mahipal - 01	Varun Engineering Works, Peddarajipet, Parakal Mandal, Warangal -505 164, Telangana	Machine-158/716	Commercial

63	Power Weeder	Kisan Power KP-451	Power Sales Agency, 27-A, National highway, Opp. Marketing Yard, Chandrapur Road, Wankaner, District Morobi, Gujarat - 363 621	Machine- 159/717	Commercial
64	Power Weeder	Kisan Power KP-486	Power Sales Agency, 27-A, National highway, Opp. Marketing Yard, Chandrapur Road, Wankaner, District Morobi, Gujarat - 363 621	Machine- 160/718	Commercial
65	Brush Cutter	Shrachi SR-BCSB4H35	M/s. BTL EPC LTD. (AGRO), No. 2, Jessore Road, Kolkata - 700 028, West Bengal	Machine- 161/719	Commercial
66	Brush Cutter	Shambhavi SB- 52	M/s. Hegde Agrotech (Kdle) Pvt. Ltd., Jalistag Compound, Honpavar, Uttahara Kannada - 581 334, Karnataka.	Machine- 162/720	Commercial
67	Chain saw	Shambhavi SC- 5800	M/s. Hegde Agrotech (Kdle) Pvt. Ltd., Jalistag Compound, Honpavar, Uttahara Kannada - 581 334, Karnataka.	Machine- 163/721	Commercial
68	Power Weeder	Kisan Kraft KK- 1C-350D	Kisan Kraft Mahcine Tools Pvt. ltd., Sri Huchhanna Tower, # 4. 1st Main, 7-A Cross, Maruthi Layout, Dasarahalli, HAF Post, Hebbal, Bangalore - 560 025, Karnataka, India	Machine- 164/722	Commercial
69	Brush Cutter	ICS YCM-200	ICS Merchandise Private Limited, # 39/50, Aswathappa Layout, M.P.M. Layout, Lake Road, Mallathalli, Bangalore- 560056	Machine- 165/723	Commercial
70	Brush Cutter	ICS YCM-430	ICS Merchandise Private Limited, # 39/50, Aswathappa Layout, M.P.M. Layout, Lake Road, Mallathalli, Bangalore- 560056	Machine- 166/724	Commercial

71	Chain Saw	ICS 58 DLX	ICS Merchandise Private Limited, # 39/50, Aswathappa Layout, M.P.M. Layout, Lake Road, Mallathalli, Bangalore-560056	Machine-167/725	Commercial
72	Power Harrow (Tractor Mounted)	Shaktiman SPH-4D	M/s. Tirth Agro technology Pvt. Ltd., Nr. Hotel Krishna Park, N.H. - 27, Vavdi, rajkot, Gujarat, India - 360 004	IMP-405/726	Commercial
73	Power Harrow (Tractor Mounted)	Shaktiman SPH-5D	M/s. Tirth Agro technology Pvt. Ltd., Nr. Hotel Krishna Park, N.H. - 27, Vavdi, rajkot, Gujarat, India - 360 004	IMP-406/727	Commercial
74	Power Harrow (Tractor Mounted)	Shaktiman SPH-6D	M/s. Tirth Agro technology Pvt. Ltd., Nr. Hotel Krishna Park, N.H. - 27, Vavdi, rajkot, Gujarat, India - 360 004	IMP-407/728	Commercial
75	Power Harrow (Tractor Mounted)	Shaktiman SPH-7D	M/s. Tirth Agro technology Pvt. Ltd., Nr. Hotel Krishna Park, N.H. - 27, Vavdi, rajkot, Gujarat, India - 360 004	IMP-408/729	Commercial
76	<b>Power Tiller</b>	Kisan Kraft KK-PTDE-15105	Kisan Kraft Mahcine Tools Pvt. ltd., Sri Huchhanna Tower, # 4. 1st Main, 7-A Cross, Maruthi Layout, Dasarahalli, HAF Post, Hebbal, Bangalore - 560 025, Karnataka, India	PT-97/730	Commercial (ICT)
77	<b>Power Tiller</b>	Kisan Kraft KK-PTDE-16110	Kisan Kraft Mahcine Tools Pvt. ltd., Sri Huchhanna Tower, # 4. 1st Main, 7-A Cross, Maruthi Layout, Dasarahalli, HAF Post, Hebbal, Bangalore - 560 025, Karnataka, India	PT-98/731	Commercial (ICT)
78	Post Hole Digger	ICS PHD500	ICS Merchandise Private Limited, # 39/50, Aswathappa Layout, M.P.M. Layout, Lake Road, Mallathalli, Bangalore-560056	Machine-168/732	Commercial

79	Manual Pole Puner	ICS-63PP	ICS Merchandise Private Limited, # 39/50, Aswathappa Layout, M.P.M. Layout, Lake Road, Mallathalli, Bangalore-560056	HT-10/733	Commercial
80	Multi Crop Chopper (Tractor Mounted)	Santhosh MCC-2227	Santhosh Agri Machinery, 282, Kartar Complex, Salem-Cuddalore Main Road, Narasingapuram, Attur Tk., Salem District, Tamil Nadu - 636 108	Machine-169/734	Commercial
81	Round Baler (Tractor Mounted)	Sree Amman Mills Spares Karata-933	Sree Amman Mills Sapres, 283, 283 A, Kartar Complex, Salem-Cuddalore Main Road, Narasingapuram, Attur Tk., Salem District, Tamil Nadu - 636 108	Machine-170/735	Commercial
82	Round Baler (Tractor Mounted)	Jaysan JRB-312	M/s. Jaysan Agri industrial, 33, West Street, Karattupalayam, Vengambur Post., Unjalur (Via.), Kodumudi, Erode-638 152, Tamil Nadu	Machine-171/736	Commercial
83	Rotavator (Tractor mounted)	raina MSP-150 GR-U	M/s. Raina Agrico Pvt. Ltd., U-155, MIDC, Hingna Road, Nagpur - 440 016, Maharashtra	IMP-409/737	Commercial
84	Rotavator (Tractor mounted)	Raina MSP-180 GR-U	M/s. Raina Agrico Pvt. Ltd., U-155, MIDC, Hingna Road, Nagpur - 440 016, Maharashtra	IMP-410/738	Commercial
85	Power Weeder	BIO SPARK 007 SHAKTHI	Bio Spark Aqua Technologies, H. No : 37-70/1, Jagatgiri Nagar, Jagatgirigutta, Kukatpally, Near Bus Stand, Hyderabad-500 072.	Machine-172/739	Commercial
86	Power Weeder	BIO SPARK 003 SHAKTHI	Bio Spark Aqua Technologies, H. No : 37-70/1, Jagatgiri Nagar, Jagatgirigutta, Kukatpally, Near Bus Stand, Hyderabad-500 072.	Machine-173/740	Commercial
87	<b>Power Tiller</b>	INDRA MARSHAL	Indra Marshal Power Pvt. Ltd., 13/B, Industrial Area, Sector A, Sanwer Road, Indore, Madhya Pradesh - 452 015.	PT-99/741	Commercial (BATCH)

88	<b>Power Tiller</b>	GREAVES MAHABALI GC 14 DI	M/s. Greaves Cotton Limited, 72, SIPCOT Industrial Complex, Ranipet, Tamilnadu - 632 403.	PT-100/742	Converted from Confidential to Commercial (ICT)
89	<b>Power Tiller</b>	KISANKRAFT KK-PTDE-12600	M/s. KisanKraft Machine Tools Pvt. Ltd., Sri Huchhanna Towers, #4, 1 <sup>st</sup> main 7 A Cross, Maruthi Layout, Dasarahalli, H.A.F. Post, Hebbal, Bangalore - 560 024, Karnataka.	PT-101/743	Commercial (ICT)
90	Pole Pruner (Power Operated)	KISANKRAFT KK-PP2-8627	M/s. KisanKraft Machine Tools Pvt. Ltd., Bangalore - 560 024, Karnataka.	Machine-174/744	Commercial
91	CHAIN SAW	FARM BOY FB-CSP-8658	M/s. KisanKraft Machine Tools Pvt. Ltd., Bangalore - 560 024, Karnataka.	Machine-175/745	Commercial
92	CHAIN SAW	KISANKRAFT KK-CSP-7524	M/s. KisanKraft Machine Tools Pvt. Ltd., Bangalore - 560 024, Karnataka.	Machine-176/746	Commercial
93	CHAIN SAW	KISANKRAFT KK-CSP-5920	M/s. KisanKraft Machine Tools Pvt. Ltd., Bangalore - 560 024, Karnataka.	Machine-177/747	Commercial
94	<b>Power Tiller (Incomplete)</b>	GREAVES BAHUBALI GC 15 DI	M/s. Greaves Cotton Limited, 72, SIPCOT Industrial Complex, Ranipet, Tamilnadu - 632 403.	PT-102/748	<b>Confidential</b>
95	Forage Harvester (Tractor Drawn, PTO Powered)	CLAAS JAGUAR-25	CLAAS India Pvt. Limited, Morinda By-Pass, NH-95, Village Marauli Kalan, Morinda - 140 101, Dist. Ropar, Punjab.	Machine-178/749	Commercial
96	Paddy Thresher (Tractor PTO Operated)	AKHTARI A-786	M/s. Akhtari Agriculture Works, Shop No. 18-19-20, New Anaz Mandi, Moradabad Road, Kashipur, Udham Singh Nagar, Uttarakhand - 244 713.	Th-30/750	Commercial

**“DON’T JUDGE EACH DAY  
BY THE HARVEST YOU REAP,  
BUT BY THE SEEDS THAT YOU PLANT**

## FARM ACTIVITIES

The Institute has been established in a sprawling 185.332 Ha. of land to carry out its set objectives. The Institute's main activities are Training & Testing for Agricultural Mechanization. The objective is to provide practical training to the trainees in the field. The Farm section also provides the land for field Demonstration/ Training purpose. The farm also lends support for conducting testing activities by providing necessary inputs like field, seeds, etc. As a part of its training programme, the farm has been equipped with drip and sprinkler irrigation system for optimum utilization of water resources.

The actual land utilization at present is as follows :

1	Office Complex/Colony, Hostel etc.	28.00 ha
2	Orchards	24.10 ha
3	Forestry	15.00 ha
4	Area Under Canal Use	0.98 ha
5	Area Under Farm Road	02.50 ha
6	Stony Area	33.28 ha
7	Area Under Haulage Test Track	12.50 ha
8	Area Under Percolation Tank	04.00 ha
9	Area left externally along with Fencing	02.07 ha
10	Net Cultivable Area	54.902 ha
	<b>Total</b>	<b>185.332 ha</b>

### Area, Production of horticultural crops:

Under farm activities, Institute has developed various orchards and cultivating field crops suitable to this area. The climatic condition of this region is dry with a very low annual rainfall i.e. 150 to 500 mm and the soil of Institute farm are infested with stones, pebbles, boulders and hard layers etc. Though, the Institute is maintaining the following fruit crops and orchards.

### **HORTICULTURAL CROPS**

<b>Sl. No.</b>	<b>Name of the Orchard</b>	<b>Area in hectares</b>	<b>No.of Plants</b>	<b>Revenue received in 2016-17</b>
1	Coconut	3.88	458	72786
2	Mosambi	1.34	302	40100
3	Mango	1.00	103	9000
4	Sapota	16	1722	220786
5.	Lemon	1.22	155	71,786
	<b>Total</b>	<b>23.44</b>	<b>2740</b>	<b>4,14,458</b>



## FIELD CROPS

Sl.No.	Name of the Crop	Area covered (Hectares)	Production	Revenue Received
1.	Red gram	16.00	46.60 Qtls	21,830**
2.	Ground Nut	0.8	2.06 Qtls	11,980
3.	Castor	4.0	3.35Qtls	11,055
4.	Jower Fodder Crop	12.0		39,545
	<b>Total</b>			<b>84,410</b>

\*\*An amount of Rs.2,09,575 has received in the month of April-2017, hence it will be shown in the financial year of 2017-18.

### **NEW DEVELOPMENTS:**

1. 04 No. of New bore wells have been dug to meet the drinking water requirements out of which, 02 No. bore wells have shown the water yields.
2. Lawn at about 8436 Sq.ft has been laid in front of the Girls hostel building

## RAINFALL DATA

Sl.No.	Name of the Month	Rainfall recorded (in mm.)
1.	April,2016	Nil
2.	May,2016	35
3.	June,2016	55
4.	July,2016	51.5
5.	August, 2016	07
6.	September, 2016	12
7.	October,2016	27
8.	November,2016	Nil
9.	December,2016	Nil
10.	January,2017	Nil
11.	February,2017	Nil
12.	March,2017	Nil
	<b>Total</b>	<b>187.50</b>



## ADMINISTRATION

### Review cases:

Review cases of Two officers, who attained the age of 50/55 yrs were submitted to the Ministry.

### Training of Staff

Following staff members were deputed for training courses mentioned against their names

Sl. No	Name of staff	Training details
I.	Smt.G.Aruna Kumar,A.O. Shri Y.K.Kiran Kumar, Hindi Typist	One day Orientation Training Programe on “PFMS” held at Soil Survey of India, Bangalore on 17.06.2016.
II.	Shri.P.C.Meshram, Senior Agricultural Engineer, Smt. D.C.Bhargavi, Sr.Technical Assistant Shri. B.V. Ramana, Sr.Technician	03 days Need based training on “Methodology of Skill Development Training and Familiarization with Tractors” at CFMT&TI, Budni (M.P.) from 02.11.02016 to 04.11.2016.
III.	Smt. G.Aruna Kumari, A.O.	Training Programme on “Records Management for Departmental Record Officers” from 16.11.2016 to 18.11.2016 at National Archives of India, Puducherry.
IV.	Smt.G.Aruna Kumari, A.O. & Shri.D.Vasuki Krishna, Upper Division Clerk	Training programme on “BHAVISHYA-e-Tool” held on 21.12.2016 at RTC, Chennai.
V.	Smt. P.Kamalabai, Senior Agriculture Engineer	04 weeks training in the field of operation or repair and maintenance or design development, production, training and testing of agricultural equipments and machines at University of Agricultural Science, GKVK, Bangalore.
VI.	Smt. D.C.Bhargavi, Sr. Technical Assistant Shri G.Ventatesulu, Senior Technician.	Training programme on Transmission system from 06.03.2017 to 10.03.2017 at Escort Institute of Farm Mechanization, Bangalore.
VII	Shri.D.S.Vara Prasad, Senior Technician.	Training programme on Transmission from 13.03.2017 to 18.03.2017 at TAFE Institute of Farm Mechanization, Chennai.

## RECRUITMENTS:

In Compliance to Ministry's letters No. 12-17/2015-M&T(Admn.) dated 15.09.2015 and No. 12-14/2015-M&T (Admn.) dated 14.10.2015, recruitments have been made to seven posts of Senior Technician and one post of Technical Assistant during the year 2016-17

## PROMOTIONS

1. Dr.P.P.Rao has been promoted to the post of Director w.e.f.16.05.2016
2. Shri B.V.Ramana, Technical Assistant has been promoted to the post of Senior Technical Assistant w.e.f. 30.08.2016

## TRANSFERS

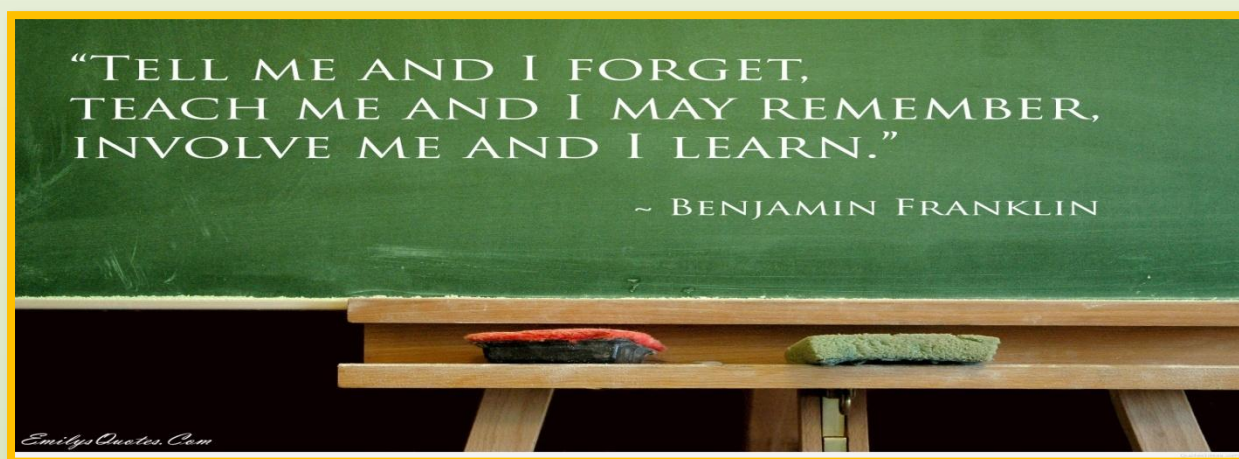
Shri P.K.Pandey, Director	Transferred from the Institute to NRFMT&TI, Hisar, Haryana. He was relieved from this Institute on 13.05.2016 (A.N.)
Dr.P.P.Rao Director	Transferred to this Institute on promotion from NERFMT&TI, Assam & assumed the charge on 16.05.2016
Shri P.C.Meshram, Senior Agricultural Engineer	Transferred to this Institute from CFMT&TI, Budni, & assumed the charge on 11.04.2016
Shri Nihal Singh, Senior Technician	Transferred to this Institute from NRFMT&TI, Hisar, Haryana as Technical Assistant and assumed the charge on 04.04.2016
Shri Devinder Kumar, Senior Technician	Transferred to this Institute from NRFMT&TI, Hisar, Haryana as Technical Assistant & assumed the charge on 04.04.2016
Shri Somveer Singh, Senior Technical Assistant	Transferred from this Institute to NRFMT&TI, Hisar, Haryana. He was relieved from this Institute on 11.05.2016.

## CELEBRATIONS

1.	21 <sup>st</sup> May	Anti-Terrorism Day
2.	15 <sup>th</sup> August	Independence Day
3.	1 <sup>st</sup> to 15 <sup>th</sup> September	Hindi Diwas
4.	2 <sup>nd</sup> October	Gandhi Jayanthi
5.	16 <sup>th</sup> to 31 <sup>st</sup> October	Swachh Bharat Pakhwada
6.	31 <sup>st</sup> October to 5 <sup>th</sup> November	Vigilance awareness week
7.	19 <sup>th</sup> to 25 <sup>th</sup> November	Communal Harmony Campaign Week/Quami Ekta Week
8.	26 <sup>th</sup> January	Republic Day

## Miscellaneous

- Eye care camp was conducted on 21-01-2017 with the co-ordination of Vasan Eye Care Hospital, Anantapur
- Moreover, in compliance to Ministry's instructions "Swachh Bharat" is being observed by every batch of trainees undergoing training at this Institute.
- Shri.A.Vemula Naidu, MTS (NT) has expired on 25.02.2017.



**INDEPENDENCE DAY**



**2016**

# HINDI DAY/हिन्दीदिवस



# REPUBLIC DAY



**2017**

Freedom in the mind, Faith in the words  
Pride in our hearts, Memories in our souls





21.07.2016



09.08.2016



04.10.2016



16.10.2016



03.11.2016



17.11.2016



17.11.2016



06.12.2016



# CLEAN & GREEN



## OFFICE MAIN GATE

OLD



NEW



# INSITUTE MAIN GATE

OLD



NEW

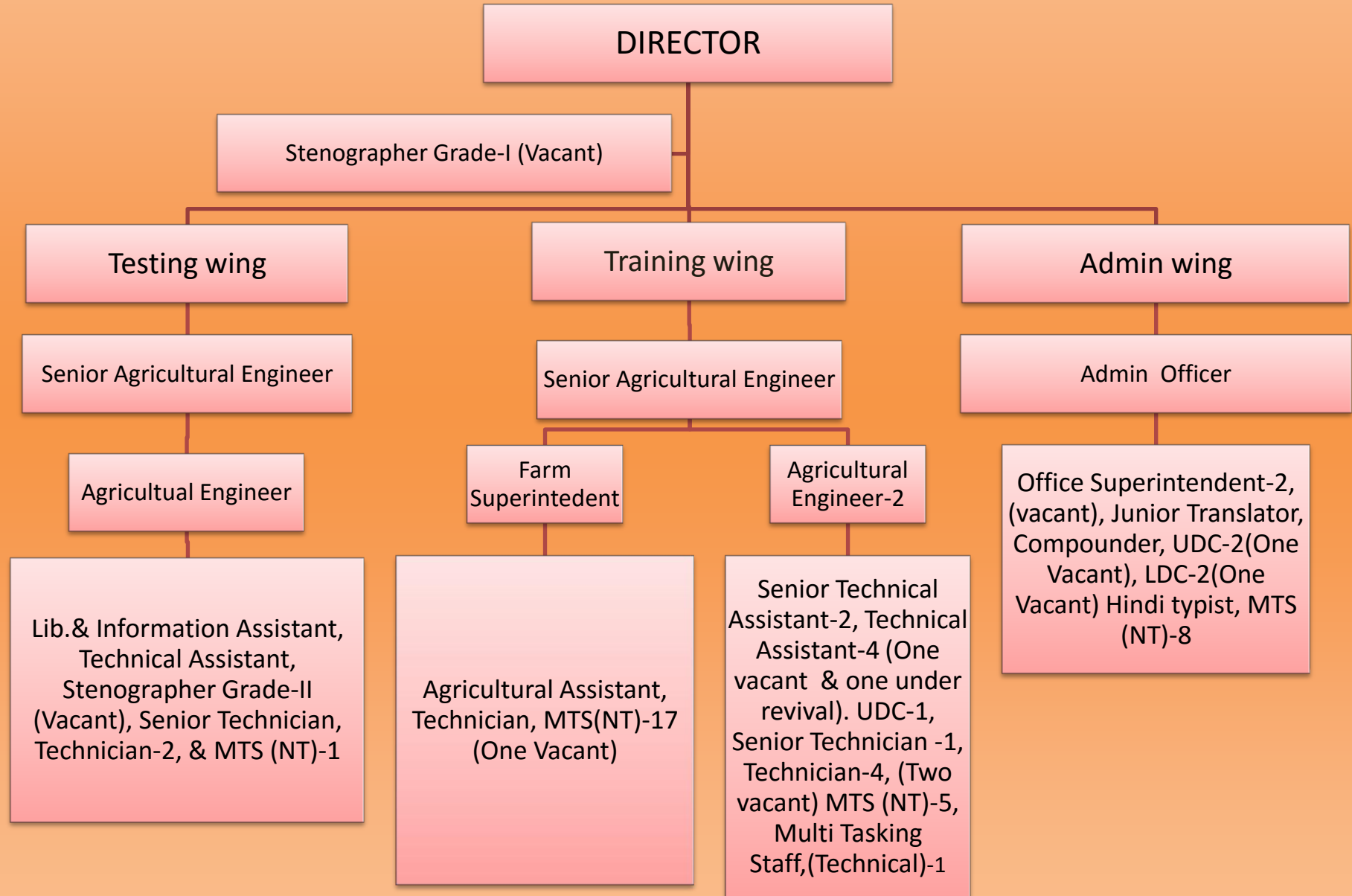


Visit of Expert Committee on Power Tillers



14.07.2016

# ORGANIZATION CHART





**Office New Gate with Officers & Staff**



**The other side of Office Main Gate**