

# ANNUAL REPORT

2017-18



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 INSTITUTe]

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

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

Tele./FAX: 08551-286441

# ANNUAL REPORT 2017-18



EDITOR : Dr. P.P.RAO, DIRECTOR

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



Published by

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

# CONTENTS

Sl.No.	Contents	Page No.
1.	MANDATE	01
2.	THE LOCATION OF INSTITUTE	02
3.	TRAINING ACTIVITIES	03
4.	INFRASTRUCTURE	13
5.	DEMONSTRATION	16
6.	TESTING ACTIVITIES	23
7.	FARM ACTIVITIES	46
8.	ADMIN ACTIVITIES	49

“The ultimate goal of farming is not the growing of crops, but the cultivation and perfection of human beings.”

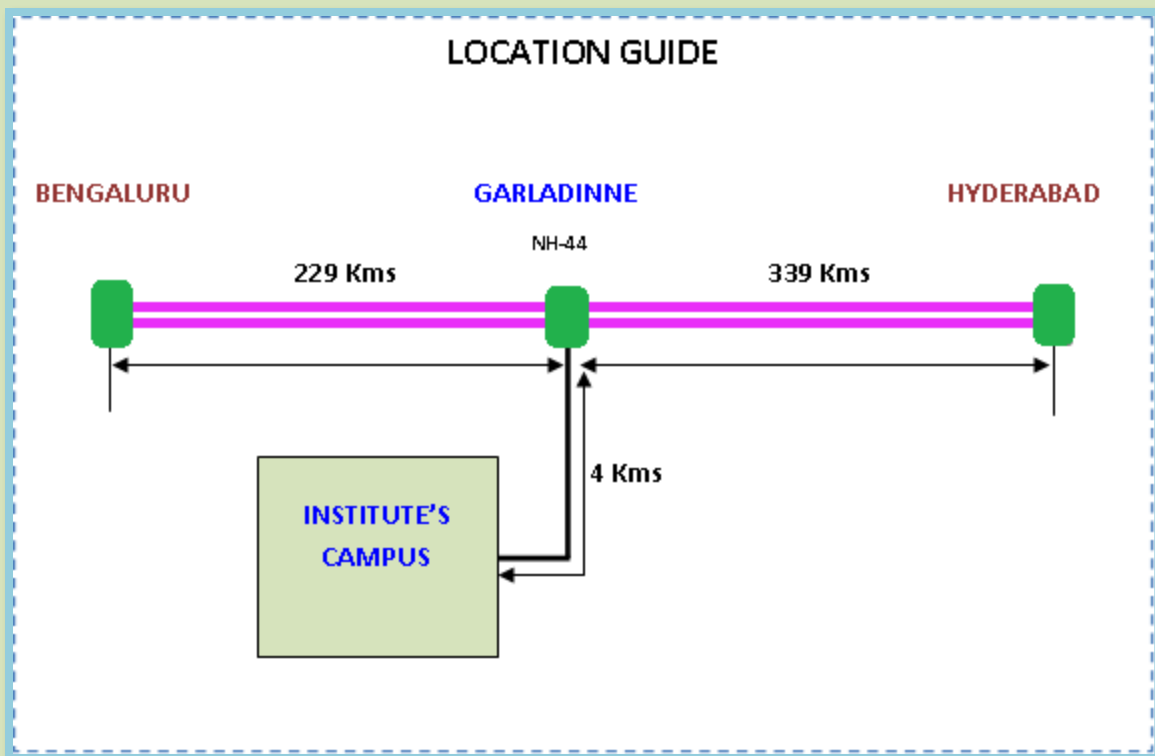
## HIGHLIGHTS...

- ❖ A total of 97 Test Reports, against the target of 90 reports, have been released by this Institute during 2017-18.
- ❖ A total of 2736 trainees, against the target of 2400 trainees, have been trained by this institute during 2017-18, which is the highest ever annual achievement.
- ❖ A particular attention was given to involve the FARMING COMMUNITY in the training activities.
- ❖ 959 of the total trainees trained, were Woman.
- ❖ 16 numbers of trainees trained were from NER.
- ❖ Under SMAM Field demonstrations of different types of developed Agricultural/Horticultural Machines were carried out in the FARMERS' fields.
- ❖ Out of Total Trainees trained, 19.3% trainees were from SC, 4.4% from ST & 46.2% from OBC categories.
- ❖ Developed the Children Park by erecting Children Play items Gymnasium items etc.,

## **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 centres 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 Agricultural machinery.

## 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 Youth	❖ 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 Programe 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.175/- per day 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 2017-2018 THE INSTITUTE TRAINED 2736 TRAINEES AGAINST THE TARGET OF ONLY 2400, WHICH IS THE HIGHEST EVER ANNUAL ACHIEVEMENT.

This Institute has trained 33,947 trainees since inception up to March, 2018.

### QUARTER-WISE TRAINEES TRAINED DURING THE YEAR

	1 <sup>st</sup> Quarter (April-June,17)	2 <sup>nd</sup> Quarter (July-Sep,17)	3 <sup>rd</sup> Quarter (Oct-Dec,17)	4 <sup>th</sup> Quarter (Jan-March,18)	Total
Achievement	766	1219	493	258	2736

### CATEGORY-WISE TRAINEES TRAINED DURING THE YEAR

Course name	U		T	A	NB	NSQF	M1	Total
	In-campus	Off-campus						
a) General	32	08	11	65	550	44	02	712
b) SC	14	34	03	44	280	33	-	408
c) ST	18	64	01	19	99	19	02	222
d) OBC	61	125	20	143	948	95	02	1394
<b>Total</b>	<b>125</b>	<b>231</b>	<b>35</b>	<b>271</b>	<b>1877</b>	<b>191</b>	<b>06</b>	<b>2736</b>

### WOMEN/WOMEN FARMERS TRAINED DURING THE YEAR

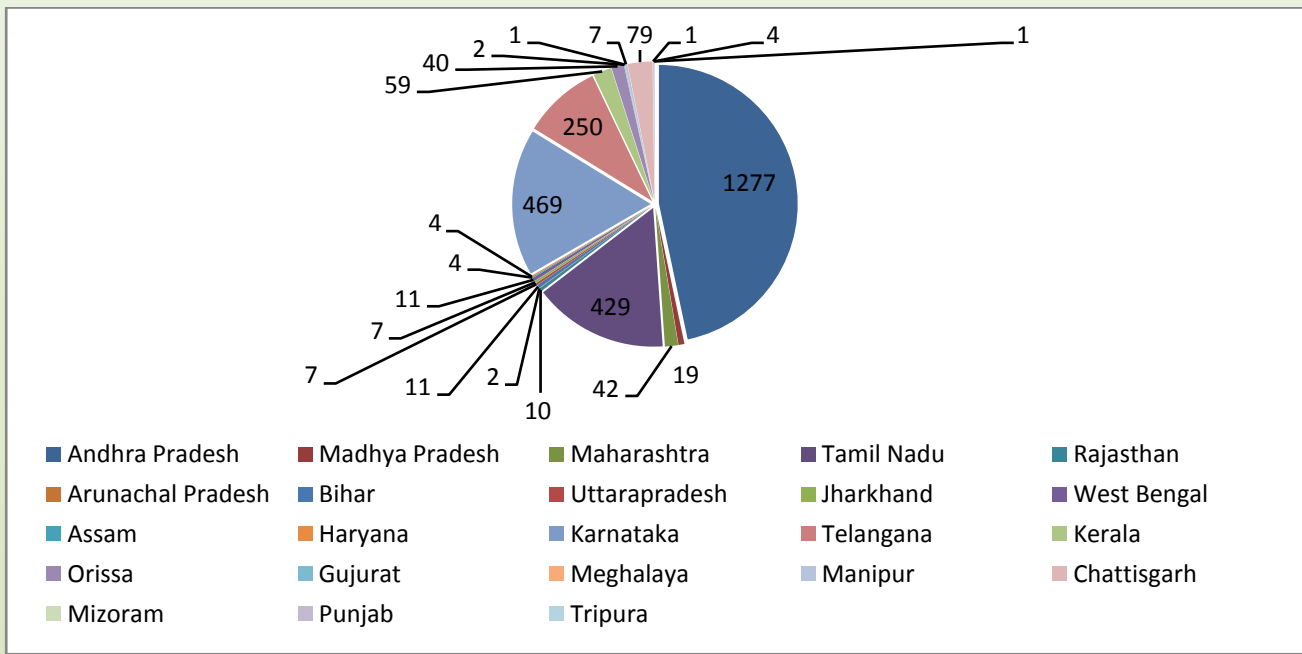
Course Name	U		T	A	NB	NSQF	M1	Total
	In-campus	Off-campus						
ACHIEVEMENT	13	231	0	113	556	46	-	959

### FARMERS TRAINED DURING THE YEAR

Course Name	U		T	A	NB	NSQF	M1	Total
	In-campus	Off-campus						
ACHIEVEMENT	108	205	21	181	959	135	-	1608

## STATE-WISE TRAINEES TRAINED DURING THE YEAR 2017-18

Sl. No.	Name of State	Trainees trained
1	Andhra Pradesh	1277
2	Madhya Pradesh	19
3	Maharashtra	42
4	Tamil Nadu	429
5	Rajasthan	10
6	Arunachal Pradesh	02
7	Bihar	11
8	Uttar Pradesh	07
9	Jharkhand	07
10	West Bengal	11
11	Assam	04
12	Haryana	04
13	Karnataka	469
14	Telangana	250
15	Kerala	59
16	Orissa	40
17	Gujarat	02
18	Meghalaya	01
19	Manipur	07
20	Chhattisgarh	79
21	Punjab	04
22	Tripura	01
23	Mizoram	01
	<b>TOTAL</b>	<b>2736</b>



## **YEAR – WISE TRAINEES TRAINED SINCE INCEPTION**

<b>S.No</b>	<b>Year</b>	<b>Target</b>	<b>No. of Trainees trained</b>
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
34.	2017-18	2400	2736
	<b>TOTAL</b>		<b>33,947</b>

# TRAINING



**FIELD DEMONSTRATION**



**TRAINING ON POWER TILLER**



**A VIEW OF TRAINING CLASS ROOM**



**TRAINING ON TRACTOR DRIVING**



**PRACTICAL CLASS ON DIESEL ENGINE**



**TRAINING ON PRECHECKS OF TRACTOR**

## Valedictory Function



**08.09.2017**



**14.09.2017**



**22.09.2017**



**A Group photo with passing out Trainees  
(29.12.2017)**



## INFRASTRUCTURE AVAILABLE WITH TRAINING SECTION:

### MACHINERY & EQUIPMENTS

▪ Tractors	-	10
▪ Transport vehicles	-	02
▪ Stationery engines	-	11
▪ 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.
- Value addition 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.

“When tillage begins, other arts follow.

The farmers, therefore, are the founders of human civilization.”

## 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. is 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/atlasses, 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 Outer view of Library**



**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 SMAM

<b>Target</b>	<b>100</b>
<b>No.of Machines demonstrated</b>	<b>138</b>
<b>No.of Beneficiaries</b>	<b>958</b>

### DEMONSTRATION OF NEWLY DEVELOPED MACHINERY UNDER SMAM.

Sl. No.	Date	Village/Sub-Distt/Distt./ State	Name of farmer/Owner of land Shri	Machines Demonstrated	No. of beneficiaries			
					Category	MEN	WOMEN	TOTAL
01.	26.05.2017	Theerthanagi ri, Cuddalore district, Tamilnadu	--	1.Big round baler 2. Hay rake	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	06	0	06
					ST	0	0	0
					OBC	25	0	25
					GENERAL	0	0	0
<b>G.TOTAL</b>					<b>31</b>	<b>0</b>	<b>31</b>	
02.	27.05.2017	Attur, Salem district, Tamilnadu	--	1.Wrap baler 2.Multi Stalk Shredder	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	7	4	11
					ST	0	0	0
					OBC	21	2	23
					GENERAL	0	0	0
<b>G.TOTAL</b>					<b>34</b>	<b>0</b>	<b>34</b>	
03.	03.06.2017	Vaduga palayam, Gopichettipalayam, Dist. ERONE Tamil Nadu	--	1.Multi Special Rotavator  2. Banana Special Rotavator	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	2	2	4
					ST	0	0	0
					OBC	22	6	28
					GENERAL	1	0	1
<b>G.TOTAL</b>					<b>25</b>	<b>8</b>	<b>33</b>	
04.	14.07.2017	Nagalaguddam Thanda, singanamala (m), Anantapur (dist).	Mrs. M. Nagamma	1. Power weeder 2. Earth augur. 3. Fertilizer broadcaster 4.wheel hooor, 5.brush cutter.		<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	0	0	0
					ST	26	01	27
					OBC	0	0	0
					GENERAL	1	0	1
<b>G.TOTAL</b>					<b>27</b>	<b>01</b>	<b>28</b>	

05.	28.08.2017	Dharmapura m, Gooty(M) Dist. Anantpur (AP)	Mr. N. Peddakka	1. Power weeder- 4 Nos 2. Earth augur 3. Fertilizer broadcaster 4.Wheel hoe -2 Nos 5.Brush cutter 6.Groundnut decorticator 7.Cocunut tree climber	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	01	02	03
					ST	03	04	07
					OBC	11	14	25
					GENERAL	05	0	05
				<b>G.TOTAL</b>	<b>20</b>	<b>20</b>	<b>40</b>	
06.	31.08.2017	Rotary Puram Bukkarayasa mudram (M) Dist. Anantpur (AP)	Mr. D. Narayanswamy	1. Power weeder- 5 Nos 2. Earth augur 3. Fertilizer broadcaster 4.Wheel hoe -2 Nos 5.Brush cutter 6.Groundnut decorticator 7.Cocunut de- husker.	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	0	3	3
					ST	0	0	0
					OBC	2	7	9
					GENERAL	11	7	18
				<b>G.TOTAL</b>	<b>13</b>	<b>17</b>	<b>30</b>	
07.	01.09.2017	Yaleru village, Athmakur(M), Anantapur(Di st.). A.P.	Sangalappa. B	1.Silage Wrap Baler (Santhosh-2229) 2. Multi Stalk Shredder (Santhosh-2228)	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	13	06	19
					ST	02	0	02
					OBC	24	06	30
					GENERAL	12	0	12
				<b>G.TOTAL</b>	<b>51</b>	<b>12</b>	<b>63</b>	
08.	05.09.2017	Dharmapura m(Village), Adoni (Mandal), Kurnool(Dist.) . A.P	K. Narendra (Reliance Foundation, Adoni)	1. Power weeder- 5 Nos 2. .Coconut de- husker 3. Brush cutter 4. Wheel hoe -2 Nos 5. Fertilizer broadcaster 6.Groundnut decorticator	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	06	-	06
					ST	-	-	-
					OBC	54	-	54
					GENERAL	07	-	07
				<b>G.TOTAL</b>	<b>67</b>	<b>-</b>	<b>67</b>	
09.	06.09.2017	Maddanagiri (Village), Adoni (Mandal), Kurnool(Dist.) , A.P	Sh. G. Rangayya (Reliance foundation representative)	1. Power weeder- 4 Nos 2. Brush cutter 3. Coconut de- husker 4. Groundnut decorticator 5.Wheel hoe -2 Nos 6.Fertilizer broadcaster 7.Earth auger 8.Coconut climber	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	12	05	17
					ST	-	-	-
					OBC	28	08	36
					GENERAL	09	01	10
				<b>G.TOTAL</b>	<b>49</b>	<b>14</b>	<b>63</b>	

10.	07.09.2017	Naraynapuram (Village), Adoni(Mandal), Kurnool(Dist.), A.P	G.L.N.Rao (Reliance foundation representative), Adoni	1. Power Weeder-4 Nos 2. Brush cutter. 3. Coconut climber 4. Earth auger 5. Fertilizer broadcaster 6. Groundnut decorticator 7. Coconut de-husker 8. Wheel hoe - 2 Nos	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	07	07	14
					ST	-	-	-
					OBC	33	05	38
					GENERAL	05	0	05
<b>G.TOTAL</b>	<b>45</b>	<b>12</b>	<b>57</b>					
11.	07.09.2017	Garladinne, Anantapur.( Dist.), A.P	Sh. Sreedhar	Tree Maintenance platform	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	05	-	05
					ST	-	-	-
					OBC	21	-	21
					GENERAL	05	-	05
<b>G.TOTAL</b>	<b>31</b>	<b>-</b>	<b>31</b>					
12.	07.09.2017	Dam Road Garladinne(M), Anantapur.( Dist.), A.P	Sh. C. Nallappa	Tree Maintenance platform	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	02	-	02
					ST	-	-	-
					OBC	23	-	23
					GENERAL	08	-	08
<b>G.TOTAL</b>	<b>33</b>	<b>-</b>	<b>33</b>					
13.	07.09.2017	Marthadu, Garladinne(M), Anantapur.( Dist.), A.P	Sh. Anjaneyulu and Sh. Hussain Peera	Tree Maintenance platform	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	10	-	10
					ST	-	-	-
					OBC	07	-	07
					GENERAL	13	-	13
<b>G.TOTAL</b>	<b>30</b>	<b>-</b>	<b>30</b>					
14.	12.09.2017	Mouthikapuram Village, Kalyanadurgam (Mandal) Anantapur.(Dist.), A.P	Sh. Jafer Sharif	1. Power Weeder-3 Nos 2. Wheel hoe - 2 Nos 3. Coconut climber 4. Coconut de-husker 5. Earth auger 6. Groundnut decorticator 7. Brush Cutter broadcaster 8. Fertilizer broadcaster	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	05	-	05
					ST	04	-	04
					OBC	29	03	32
					GENERAL	12	04	16
<b>G.TOTAL</b>	<b>50</b>	<b>7</b>	<b>57</b>					

15.	25.09.2017	Gundumala Village Madakasira (Mandal) Anantapur.(Dist.), A.P	Sh B. Rangaswannappa	1. Power Weeder-4 Nos 2. Brush Cutter 3.Fruit harvester\ 4. Groundnut decorticator 5. Fertilizer broadcaster 6.Earth Auger 7.Coconut Climber 8.Coconut de-husker	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	13	7	20
					ST	01	0	01
					OBC	26	05	31
					GENERAL	13	01	14
					<b>G.TOTAL</b>	<b>53</b>	<b>13</b>	<b>66</b>
16.	26.09.2017	A. R. Gouripuram Village Madakasira (M) (Anantapur.(Dist.), A.P	Sh. Anjana Reddy	1. Power Weeder-3 Nos 2. Brush Cutter 3.Fruit harvester/ Catcher 4. Groundnut decorticator 5. Fertilizer broadcaster 6.Earth Auger 7.Coconut Climber 8.Coconut de-husker	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	26	02	28
					ST	-	-	-
					OBC	04	-	04
					GENERAL	01	-	01
					<b>G.TOTAL</b>	<b>31</b>	<b>02</b>	<b>33</b>
17.	23.10.2017	Kittampatti,kannivadi/Dindigul/ Tamil Nadu	G.Thirumalai Swamy	1.Power weeder (Width 45cm) 2. Wheel hoe 3.Coconut de-husker 4.Brush cutter 5.Coconut climber 6.Power weeder(width 23 cm) 7.Power weeder(width 41 cm) 8.Fruit Harvester 9.Maize Sheller	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	3	2	5
					ST	-	-	-
					OBC	16	8	24
					GENERAL	1	-	1
<b>G.TOTAL</b>	<b>20</b>	<b>10</b>	<b>30</b>					
18.	24.10.2017	T.Muthuram patty,Kanniwadi /Dindigul/Tamil Nadu	Pon.Ayyappan	1.Power weeder(Width 45cm) 2.Wheel hoe 3Coconut de-husker 4.Brush cutter 5.Coconut climber 6.Power weeder(Width 107 cm) 7. Power weeder(width 41 cm) 8.Fruit Harvester 9.Maize Sheller 10.Ground nut Decorticator	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	2	-	2
					ST	-	-	-
					OBC	33	1	34
					GENERAL	-	-	-
					<b>G.TOTAL</b>	<b>35</b>	<b>1</b>	<b>36</b>

19.	25.10.2017	Navapalli/Dindigul/Tamil Nadu	T.Raja Sekaran	1.Rotary Maize Sheller 2.Fruit Harvester 3.Fertilizer Broadcaster 4.Power weeder(Width 45cm) 5.Power weeder(Width 107 cm) 6.Power weeder(width 41 cm) 7.Power weeder(Width 23cm) 8. Wheel hoe 9.Coconut de-husker 10. Coconut climber	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	-	-	-
					ST	-	-	-
					OBC	25	-	25
					GENERAL	-	-	-
<b>G.TOTAL</b>	<b>25</b>	<b>-</b>	<b>25</b>					
20.	26.10.2017	GRI, Gandhigram/Dindigul/Tamil Nadu	GRI, Gandhigram school of Agri. Animal Sciences, GRI Dindigul/Dindigul/Tamil Nadu	1.Brush cutter 2.Power Weeder(Width 45cm) 3.Power weeder(Width 23 cm) 4.Power weeder(width 41 cm) 5.Power weeder(Width 107 cm) 6.Rotary Maize Sheller 7.Fruit Harvester 8.Fertilizer Broadcaster 9.Coconut climber 10.Coconut de-husker 11.Wheel hoe 12.Cono weeder 13.Twin Wheel hoe	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	4	7	11
					ST	-	-	-
					OBC	16	28	44
					GENERAL	-	-	-
<b>G.TOTAL</b>	<b>20</b>	<b>35</b>	<b>55</b>					
21.	27.10.2017	GRI, Gandhigram/Dindigul/Tamil Nadu	Dr.R.Udhay Kumar	1.Wheel Hoes 2.Cono weeder 3.Twin wheel Hoes 4.Rotary maize sheller 5.Naveen Dibbler 6.Bheem weeder(width 41 cm) 7. Bheem weeder(width 23 cm) 8.Power weeder(Width 45cm) 9.Power weeder(Width 107 cm) 10.Fruit Harvester 11.Fertilizer Broadcaster 12.Coconut climber Coconut Dehusker	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	13	-	13
					ST	3	-	3
					OBC	23	4	27
					GENERAL	-	1	1
<b>G.TOTAL</b>	<b>39</b>	<b>5</b>	<b>44</b>					



22.	04.11.2017	Goridindla(V) , Atmakuru(M) , Anantapur(D ist.)	B. Chenna Reddy	1. Groundnut Digger 2. Power weeder (Width 45cm) 3. Brush cutter 4. Fertilizer Broadcaster	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	-	-	0
					ST	01	-	01
					OBC	11	01	12
					General	09	03	12
<b>G.TOTAL</b>	<b>21</b>	<b>04</b>	<b>25</b>					
23.	20.11.2017	Tarimela(V), Singanamala (M), Anantapur(D ist.)	Sh. Bala Reddy	1.Paddy Thresher	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	06	01	07
					ST	04	04	08
					OBC	03	-	03
					General	01	01	02
<b>G.TOTAL</b>	<b>14</b>	<b>6</b>	<b>20</b>					
24.	25.03.2018	Jambuladinn e/ Raghunathp uram, Garladinne, Anantpur	Sh. Narayana,	1. Paddy Reaper	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	6	3	6
					ST	0	0	0
					OBC	0	0	0
					General	6	2	8
<b>G.TOTAL</b>	<b>12</b>	<b>5</b>	<b>17</b>					
25.	27.03.2017	Akuledu, Singhanmala (M)	Sh. Ramchandra Reddy	1. Paddy Reaper	<b>Category</b>	<b>MEN</b>	<b>WOMEN</b>	<b>TOTAL</b>
					SC	2	0	2
					ST	0	0	0
					OBC	2	3	5
					GENERAL	3	0	3
<b>G.TOTAL</b>	<b>7</b>	<b>3</b>	<b>10</b>					

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

# 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 15 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, ICAR, SRFMT&TI, ANANTAPUR & CFMT&TI BUDNI & Other Institutes have gone unanimously to recommend to formulate Minimum Performance Standards (MPS) for power tillers, which now serve as a criteria for their financing, vide Ministry's F.No. 11-3/2004-M&T(I&P) dated 24<sup>th</sup> August, 2017. The underlying concept is that power tiller test should be compulsory to assess their compliance to MPS.

- The IS 13539:2018 provides some requirements as " **Evaluative Requirements**". These are the ones which are **mandatory for acceptance of power tiller for purpose of subsidy/financing**. In view of this there is every reason to make power tiller testing mandatory.

- Clause 5.1 of IS 13539:2018 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.
- b) There are not more than one 'major breakdowns' .
- c) There are not more than three 'minor defects' during the test and the frequency of each is not more than two.

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

Besides above in IS 13539:2018 lays down the following two tests also made mandatory:

- 1) Torture test
- 2) Material test of different critical components.

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

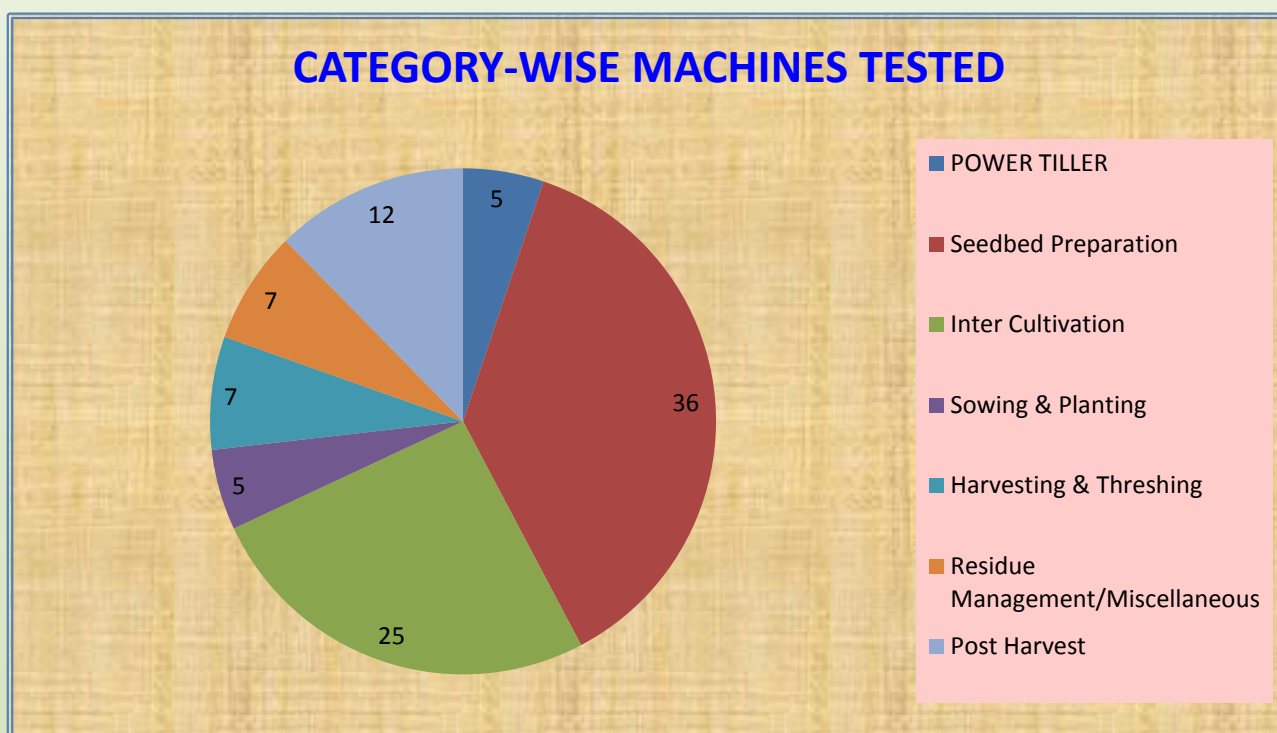
- a) It helps the farmers in determining the comparative performance of machines available in the market.
- b) It provides inputs to research/ design peoples for undertaking development work on machines.

## TESTING ACHIEVEMENTS

THE INSTITUTE HAS RELEASED 97 TEST REPORTS DURING THE YEAR 2017-18 AGAINST THE TARGET OF 90 TEST REPORTS

### CATEGORY-WISE MACHINES TESTED DURING THE YEAR 2017-18

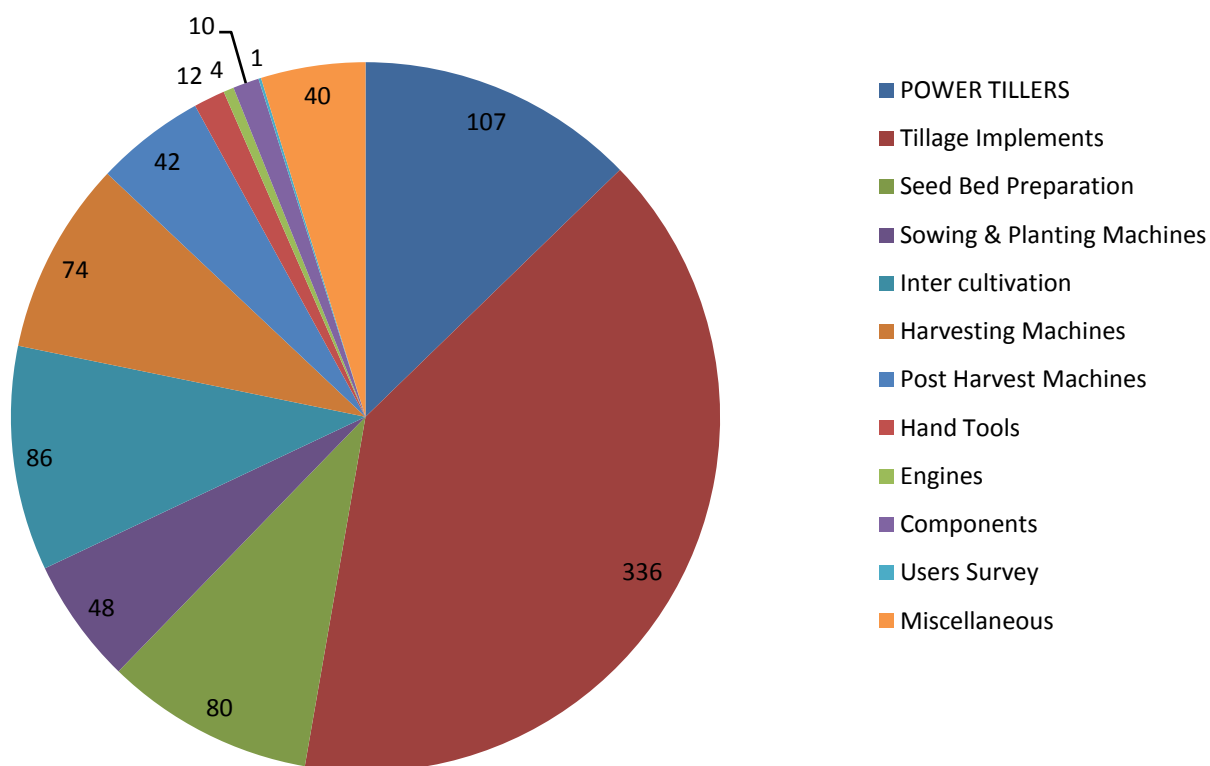
Category Wise	No. of machines tested
POWER TILLER	05
Seedbed Preparation	36
Inter Cultivation	25
Sowing & Planting	05
Harvesting & Threshing	07
Residue Management/Miscellaneous	07
Post Harvest	12
Total	<b>97</b>



## CATEGORY-WISE MACHINES TESTED SINCE INCEPTION

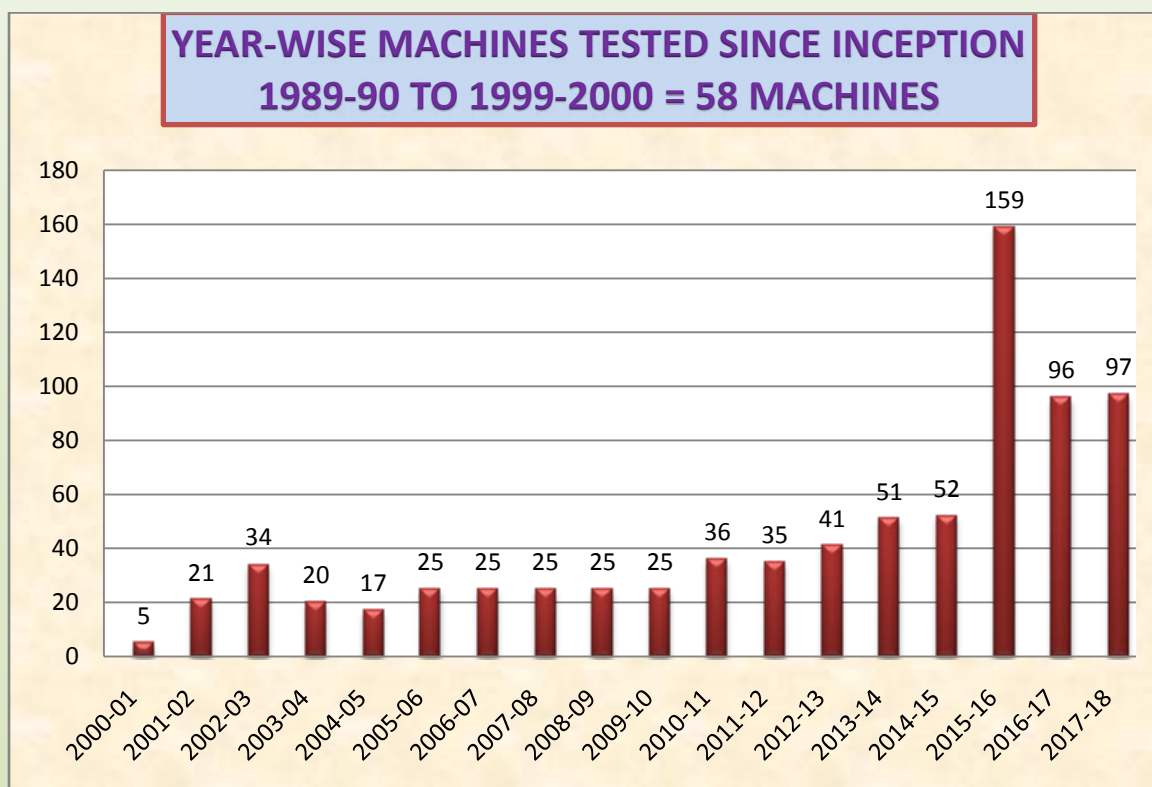
<b>POWER TILLERS</b>	<b>107</b>
Tillage Implements	336
Seed Bed Preparation	80
Sowing & Planting Machines	48
Inter cultivation	86
Harvesting Machines	74
Post Harvest Machines	42
Hand Tools	12
Engines	04
Components	10
Users Survey	01
Miscellaneous	47
<b>Total</b>	<b>847</b>

## 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
17.	2017-18	97
	<b>Total</b>	<b>789</b>



## TESTING CHARGES

(Vide Ministry's letter No. 10-6/98-M&T (I&P) dated 12.05.2014)

Sl. No.	Item	Testing Charges for 2018-19
1.	Power Tiller (Both ICT & Batch Test)	3,53,727
2.	Components	12,214
3.	Hand tools	12,214
4.	Power operated thresher, decorticator, sheller, winnowers etc.	48,824
5.	Animal drawn equipments	26,044
6.	Tractor drawn/operated implements/equipments/Power weeder	83,006
7.	Manually operated equipment	23,599
8.	Power tiller driven/self propelled reaper etc.	48,824
9.	Tractor drawn/Operated seed cum fertilizer drill/Planter, straw reaper, Mini rice mill, Power seed cleaner/Grader	87,070
10.	Animal drawn Multi tool bar (Minimum for attachments)	69,163
11.	Self Propelled Paddy transplanter	1,18,804
12.	Power operated Multi-crops thresher (Two or more crops)	89,515

**“Agriculture is our wisest pursuit, because it will in the end contribute most to real wealth, good morals, and happiness.”**



**A View of Control Room**



**A View of Testing Building**



**A View of Test Lab**



## 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 2017-18**

<b>Sl. No.</b>	<b>NAME OF MACHINE/ IMPLEMENT</b>	<b>TYPE OF TEST</b>	<b>TEST REPORT NO.</b>	<b>DATE OF RELEASE</b>	<b>ADDRESS OF MANUFACTURER/ APPLICANT</b>
1	Power Tiller SAMYAK ST 960	Commercial (ICT)	PT-103/751	04/2017	M/s. SAMYAK MOTORS PRIVATE LIMITED, #33 Brindhavan Colony, Uppilpalayam, Coimbatore - 641015
2	Rotavator (Tractor Mounted) GAS 5 Feet Single Speed Gear Drive	Commercial	IMP-411/752	04/2017	M/s. G.A.S. Rotavator, 315/1, Vadugapalayam Pudur, Gobi Tirupur Main Road, Gobi, Erode District - 638476, Tamilnadu.
3	Rotavator (Tractor Mounted) GAS 6 Feet Multi Speed Gear Drive	Commercial	IMP-412/753	04/2017	
4	Rotavator (Tractor Mounted) GS 5 Gear Drive	Commercial	IMP-413/754	04/2017	
5	Rotavator (Tractor Mounted) GS 6 Gear Drive	Commercial	IMP-414/755	04/2017	Gayathri Agro Tech Industries, 24-D-5, Perumanallur Road, Kunnathur, Tirupur - Dist-638103. Tamilnadu.
6	Rotavator (Tractor Mounted) Everesst 36 Blade Gear Drive	Commercial	IMP-415/756	04/2017	Sri Varshaa Agro Industries, 126-Chinappan Nagar, Kattur Via, Near Govt. High School, Sivathapuram post, Salem, Tamil Nadu - 636 307.
7	Rotavator (Tractor Mounted) Everesst 42 Blade Chain Drive	Commercial	IMP-416/757	04/2017	
8	Rotavator (Tractor Mounted) Agrone 36 Blade Single Speed Chain Drive	Commercial	IMP-417/758	04/2017	Turnwell Equipments, 1/195/10-A, Near Data Field, Mudhalipalayam Road, Coimbatore-641407 Tamilnadu.
9	Power Tiller Bahubali GC 15DI	Commercial (ICT)	PT-104/759	05/2017	M/s. Greaves Cotton Ltd., Farm Equipment Unit, F-62 & 63, SIPCOT Industrial Complex, Gummidipoondi - 601 201
10	Power Weeder KMW MINT-5	Commercial	Machine-179/760	05/2017	M/s. Kirloskar Oil Engines Ltd. (KOEL), Laxmanrao Kirloskar Road, Khadki, Pune - 411003, Maharashtra
11	Power Weeder KMW MINT-8	Commercial	Machine-180/761	05/2017	
12	Rotary Tiller RT 65 5	Commercial	Machine-181/762	05/2017	M/s. V.S.T. Tillers Tractors Ltd., P.B. No. 4801, Mahadevapura Post, White Field Road, Bangalore - 560048
13	Inline Square Baler (Tractor Mounted) - 934	Commercial	Machine-182/763	05/2017	Santhosh Agri Machinery, 282, Kartar Complex, Salem-Cuddalore Main Road, Narasingapuram, Attur Tk., Salem District, Tamil Nadu - 636 108
14	Rice Transplanter Fuerda 2ZS-6A Walk Behind	Commercial	Machine-183/764	06/2017	Varushapriya Agro Tech Pvt. Ltd., No. 195. 7th Cross, 1st Stage, Indiranagar, Bangalore - 560 038

15	Rice Transplanter Fuerdai 2ZS-4A Walk Behind	Commercial	Machine-184/765	06/2017	Varushapriya Agro Tech Pvt. Ltd., No. 195. 7th Cross, 1st Stage, Indiranagar, Bangalore - 560 038, Karnataka
16	Five Bottom Duck Foot Cultivator (Tractor Mounted) SAEW 5BC	Commercial	IMP-418/766	06/2017	Shiva Agro Engineering Works, All kinds of Agricultures Equipment's Repair Works, Holehonnur Road, Bhadravathi - 577301, Shimoga District, Karnataka State.
17	Disc Harrow (Tractor Mounted) SKAL10 DH	Commercial	IMP-419/767	06/2017	S.K. Agro Links, Agriculture Implements Spares and Tools, C.N. Road, Seegebagi, Bhadravathi Tq., Shimoga District, Karnataka 577301
18	Disc Harrow (Tractor Mounted) SBI AKASH 10 DH Offset	Commercial	IMP-420/768	06/2017	Sri Balaji Industries, 622/1, ELGI Industrial Area, Trichy Road, Singanullur, Coimbatore, Tamil Nadu-641 005
19	Rotavator (Tractor Mounted) 36 - SS/GD	Commercial	IMP-421/769	07/2017	SRM Agri Tech, 1362/1-Reliance Road, V.V. Chavadi post, Chennai, Tamil Nadu - 600103.
20	Rotavator (Tractor Mounted) 42 - SS/GD	Commercial	IMP-422/770	07/2017	
21	Rotavator (Tractor Mounted) AES 36 Multi Gear Drive	Commercial	IMP-423/771	07/2017	M/s. Amman Engineering Service,D-334/4, Vigneshwara Nagar, Vadugapalayam Pudur, Tirupur Main Road, Gobichettipalayam-638 452, Erode DT., Tamil Nadu.
22	Rotavator (Tractor Mounted) AES 42 Multi Speed Heavy Champion Gear Drive	Commercial	IMP-424/772	07/2017	
23	Cultivator (Tractor Drawn) Five Tine Rigid Arrow	Commercial	IMP-425/773	07/2017	S.R. Traders, 140/113, M.D. Complex, 3rd Ward, Chamaraj Nagar Road, Gundalpet - 571 111, Karnataka.
24	Cultivator (Tractor Drawn) Heavy Duty 9 Tine Spring Loaded	Commercial	IMP-426/774	07/2017	
25	Self Propelled Paddy Reaper GPS 4S-120	Commercial	Machine-185/775	07/2017	Global Power Systems, 5 Adhyapak Layout, Shubhalaxmi Apartment, Hingna Road, Nagpur, Maharashtra - 440 036.
26	Self Propelled Paddy Reaper KR-120DS	Commercial	Machine-186/776	07/2017	M/s. Kerala Agro Machinery Corporation Ltd., Athani P.O., Ernakulam, Kerala-683 585.
27	Self Propelled Paddy Reaper KR-120B	Commercial	Machine-187/777	07/2017	
28	Big Round Baler (Tractor Mounted, PTO Powered) - 936	Commercial	Machine-188/778	07/2017	Santhosh Agri Machinery 283, 283A,Kartar complex, Narasingapuram, Attur Tk., Salem District, Tamil Nadu-636 108.

29	Hay Rake (Tractor Mounted, PTO Powered) – 937	Commercial	Machine-189/779	08/2017	Santhosh Agri Machinery 283, 283A, Kartar Complex, Salem-Cuddalore Main Road, Narasingapuram, Attur TK., Salem District, Tamil Nadu-636 108.
30	Multi Stalk Shredder (Tractor PTO Powered) - 2228	Commercial	Machine-190/780	08/2017	
31	Silage Wrap Baler (Motor Operated)- 2229	Commercial	Machine-191/781	08/2017	
32	Power Tiller Commercial (Variant) VWH 120	Commercial (Variant)	PT-105/782	08/2017	M/s. V.S.T Tillers Tractors Ltd., P.B. No. 4801, Mahadevapura Post, Whitefield Road, Bangalore - 560 048.
33	Power Weeder KK-IC-300D	Commercial	Machine-192/783	08/2017	M/s. KisanKraft Machine Tools Pvt. Ltd., Sri
34	Power Weeder KK-IC-200P	Commercial	Machine-193/784	08/2017	Huchhanna Towers, # 4, 1 <sup>st</sup> Main, 7A Cross, Maruthi Layout, Dasarahalli, HAF Post, Hebbal, Bangalore - 560 024, Karnataka.
35	Rotary Tiller RT65 (7)	Commercial	Machine-194/785	08/2017	M/S V.S.T. Tillers Tractors Ltd., P.B. No: 4801, White Field Road, Mahadevapura Post, Bangalore – 560048,
36	Power Tiller (Variant) IND-180	Commercial (Variant)	PT-106/786	09/2017	Indtec electro control, D-198, Focal point, Phagwara Road, Hoshiarpur, Punjab-146001
37	Mini Tractor Trailer SMA-MTT-1	Commercial	T-2/787	09/2017	Sri Mallikarjuna Agro, Plot No. 61 & 62 1st Main, Auto Complex, Shimoga - 577 204, Karnataka
38	Rotary Plough (Tractor Mounted) RP-1	Commercial	IMP-427/788	09/2017	Prithvi Agro Equipment Manufacturer, Hubli, Karnataka
39	Power Weeder AR 108	Commercial (Variant)	Machine-195/789	09/2017	A. R. Agro Equipments, Door No: FP6/289E, Kadalundi Road, Froke Post, Kozhikode District, Kerala, India, Kerala-673 631
40	Power Weeder GS 620 DIL	Commercial	Machine-196/790	09/2017	M/s. Greaves Cotton Limited, 72, Sipcot Industrial Complex, Ranipet, Tamil nadu - 601 201
41	Power Weeder GS 920 DLX	Commercial	Machine-197/791	09/2017	M/s. Greaves Cotton Limited, 72, Sipcot Industrial Complex, Ranipet, Tamil nadu - 601 201
42	Power Tiller IND-180	Commercial (First Batch Test)	PT-107/792	09/2017	Indtec elektro control, D-198, Focal point, Phagwara Road, Hoshiarpur, Punjab-146001

43	Rotary Tiller (Tractor Mounted, PTO Operated) 615 VP 36 Blade Multi Speed	Commercial	IMP-428/793	10/2017	Tractors and Farm Equipment Limited, P.O. Box No: 3302, 35, Mahathma Gandhi Road, Nungambakkam, Chennai - 600 034.
44	Rotary Tiller (Tractor Mounted, PTO Operated) Tafe 718 VP 42 Blade Multi Speed	Commercial	IMP-429/794	10/2017	
45	Rotary Tiller (Tractor Mounted, PTO Operated) Tafe 820 VP 48 Blade Multi Speed	Commercial	IMP-430/795	10/2017	
46	Three Bottom Hydraulic Reversible (Tractor Mounted) Mould Board Plough Tafe 330 MR	Commercial	IMP-431/796	10/2017	
47	Power Weeder 8D6 Diesel	Commercial	Machine-198/797	10/2017	M/s. BTL EPC LTD (Agro Division), 2 No. Jessore Road, Dum Dum, Kolkata, West Bengal-700028
48	Power Weeder 100	Commercial	Machine-199/798	10/2017	
49	Power Weeder 135F JE	Commercial	Machine-200/799	10/2017	M/s. Kavi Agro Agency, 164, Kumaran Road, Sangiliyandapuram, Trichy - 620 001, Tamil Nadu.
50	Self Propelled Platform for Tree Maintenance STMP-26 ULTRA	Commercial	Machine-201/800	10/2017	M/s. Tirth Agro Technology Pvt. Ltd., "Shaktiman" Survey No: 108/1, Plot No.: B, N.H.-27, Near Bharudi Toll Plaza, Bhunava (Village), Tal. Gondal, District: Rajkot - 360 311, Gujarat.
51	Rotary Tiller FT350	Commercial	Machine-202/801	10/2017	V.S.T. Tillers Tractors Ltd., P.B. No. 4801, White Field Road, Mahadevapura post, Bangalore-560 048,
52	Power Weeder RT-105	Commercial	Machine-203/802	10/2017	Indra Marshal Power Pvt. Limited, 13-B Sector A, Sanwer Road, Indore (M.P) - 452 015
53	Power Weeder RT-135	Commercial	Machine-204/803	10/2017	
54	Rotavator Multi Speed Gear Drive PS 30 (Tractor Mounted, PTO Operated)	Commercial	IMP-432/804	11/2017	Paama Agrico Pvt. Ltd., #4, 5, 6, 7 & 8, Apparel Park, Phase-1, Doddaballapur, Bangalore-561203, Karnataka, India.
55	Rotavator PS 36 Multi Speed Gear Drive (Tractor Mounted, PTO Operated)	Commercial	IMP-433/805	11/2017	
56	Rotavator PE 42 Multi Speed Gear Drive (Tractor Mounted, PTO Operated)	Commercial	IMP-434/806	11/2017	
57	Rice Transplanter YR60D 6 Row Riding Type	Commercial	Machine-205/807	11/2017	Yanmar Coromandel Agrisolutions Private Limited, Head Office: 2nd Floor, SPIC Annexe Building, No. 86, Mount Road, Guindy, Chennai - 32
58	Rice Transplanter YR80D 8 Row Riding Type	Commercial	Machine-206/808	11/2017	Yanmar Coromandel Agrisolutions Private Limited, Head Office: 2nd Floor, SPIC Annexe Building, No. 86, Mount Road, Guindy, Chennai - 32

59	Cultivator 7TSC Seven Tine Spring Loaded (Tractor Mounted)	Commercial	IMP-435/809	11/2017	M/s. Sri Balaji Industries, 622/1, ELGI Industrial Area, Trichy Road, Singanullur, Coimbatore – Tamil Nadu. - 641 005
60	Five Bottom Furrow Opener 5 FO (Tractor Mounted)	Commercial	IMP-436/810	11/2017	
61	Blade Harrow BHW (Tractor Mounted)	Commercial	IMP-437/811	11/2017	
62	Single Bottom Fixed Mould Board Plough 1BFMBP (Tractor Mounted)	Commercial	IMP-438/812	11/2017	
63	Mechanical Seed Drill (Tractor Drawn) SMSD-180	Commercial	IMP-439/813	12/2017	M/s. Tirth Agro Technology Pvt. Ltd., “Shaktiman” Survey No: 108/1, Plot No.: B,N.H.-27, Near Bharudi Toll Plaza, Bhunava (Village), Tal. Gondal, District: Rajkot - 360 311, Gujarat.
64	Power weeder G-105FQSD-A	Commercial	Machine-207/814	12/2017	e-Agro Care Machineries & Equipments Pvt. Ltd., D-45, 5-Star MIDC, Shendra, Aurangabad - 431 154, Maharashtra.
65	Power weeder G-500-1A	Commercial	Machine-208/815	12/2017	
66	Rotary Tiller VKA-170FG	Commercial	Machine-209/816	12/2017	Vijay Krushi Seva Kendra Ichalkaranji, Rajaram Stadium, Gala no.43, Opp. S.T. Stand, Ichalkaranji, Dist. Kolhapur, Maharashtra - 416115,
67	Rotary Tiller VKA – 186FB	Commercial	Machine-210/817	12/2017	
68	Paddy Thresher (Tractor PTO operated) JGI - 1008	Commercial	TH-31/818	12/2017	M/s. Jai Gurudev Industries, Industrial Estate, Plot C 19/20, Kichha Bypass Road, Rudrapur, Udham Singh Nagar, U.S. Nagar, Uttarakhand - 263 153,
69	Round Baler (Tractor Operated, PTO Powered) AAMBAL COO - 455	Commercial	Machine-211/819	12/2017	M/s. R. N. Tools & Machine, 1 Kamarajar Nagar, Thirubuvanam, Kumbakonam - 612 103, Tamil Nadu.
70	Power Weeder KK-IC-400D	Commercial	Machine-212/820	01/2018	Kisankraft Machine Tools Pvt. Ltd., Sri Huchhanna Tower #4, 1st main, 7 A Cross, Maruthi Layout, Dasarahalli, HAF Post Hebbal, Bangalore-560024
71	Saw Chain 2T36 RSC/63 PHC3	Commercial	Component -10/821	01/2018	Andreas Stihl Pvt. Ltd., Gut No. 53/01, Pune-Nashik Highway, Kuruli, Khed, Pune - 410 501, Maharashtra,
72	Rotary Tiller FF 135E	Commercial	Machine-213/822	01/2018	M/s. Farmfield Organic Fertilizer & Machineries Pvt Ltd., 7/8, Trilok Plaza, Shahgunj, Aurangabad – 431 001, Maharashtra.
73	Power Weeder DN7P	Commercial	Machine-214/823	01/2018	M/s. Benson Agro Engineering, c-8/2, NICE Area, 'A' Road, M.I.D.C & #13 Satpur, Nashik, Maharashtra-422007.



74	Power Weeder KK-IC-205P	Commercial	Machine-215/824	01/2018	Kisankraft Machine Tools Pvt. Ltd., Sri Huchhanna Tower #4, 1st main, 7 A Cross, Maruthi Layout, Dasarahalli, HAF Post Hebbal, Bangalore-560024
75	Reaper Harvester 4GL-120	Commercial	Machine-216/825	02/2018	Benson AgroEngineering, C-8/2,NICE area, 'A' road, M.I.D.C & #13; Satpur, Nashik, Maharashtra-422 007
76	Multi Crop Thresher (TRACTOR PTO OPERATED) MCT 30x50	Commercial	Th-32/826	02/2018	Sri Balaji Industries, 622/1, Elgi Industrial Area, Trichy Road, Singanullur, Coimbatore 641 005, Tamil Nadu.
77	Power Weeder SZ-100 D	Commercial	Machine-217/827	02/2018	Souza Agro Engineering, No402, 3rd Floor, Kailash Tower, Puttenalli Main Road, Yelahanka New Town, Bangaluru-560 064, Karnataka.
78	Power Weeder SZ-135D	Commercial	Machine-218/828	02/2018	
79	Chaff Cutter (Engine Operated) LMPR-35	Commercial	Machine-219/829	02/2018	M/s. Laxmi Machinery Products, Near VRL Office, Mudhol Road, Belagali, Tq.: Mudhol, Dist.:Bagalkot , 587113.
80	Chaff Cutter (Electrical Motor Operated) LMPR 23	Commercial	Machine-220/830	02/2018	
81	Chaff Cutter (Engine Operated) SAE 81	Commercial	Machine-221/831	02/2018	M/s. Shivshakti Agri. Equipments B. Ankalagi , Hire Bagewadil, Tal. Dist., Belagavi, Karnataka-591 109
82	Chaff Cutter (Electrical Motor Operated) SAE 3 HPCC	Commercial	Machine-222/832	02/2018	
83	Mini Round Baler - 938 (Tractor Mounted, Pto Powered) - 938	Commercial	Machine-223/833	02/2018	M/s. Santhosh Agri Machinery 282, Kartar Complex, Salem-Cuddalore Main Road, Narasingapuram, Attur Tk., Salem District, Tamil Nadu-636 108.
84	Round Baler (Tractor Mounted, Pto Powered) - 933 (Deluxe)	Commercial	Machine-224/834	02/2018	M/s. Sree Amman Mills Spares, 283,283A,Kartar Complex, Salem -Cuddalore Main Road, Salem District, Tamil Nadu-636 108

85	Two Bottom Mechanical Reversible Mould Board Plough (Tractor Mounted) LM 2 BMRMBP	Commercial	IMP-440/835	03/2018	M/s. Laxmi Machinery Products, Near VRL Office, Mudhol Road, Belagali, Tq.: Mudhol, Dist.: Bagalkot, Karnataka -587113
86	Two Bottom Hydraulic Reversible Mould Board Plough (Tractor Mounted) LM 2 BHRMBP	Commercial	IMP-441/836	03/2018	
87	Multi Speed Gear Drive Rotavator (Tractor Mounted, PTO Operated) LM 42 MS GD	Commercial	IMP-442/837	03/2018	
88	Multi Speed Gear Drive Rotavator (Tractor Mounted, PTO Operated) LM 36 MS GD	Commercial	IMP-443/838	03/2018	
89	Single Bottom Automatic Reversible Mould Board Plough(Tractor Mounted) 1 BARP	Commercial	IMP-444/839	03/2018	M/s. Shivshakti Agro Equipments, B. Ankalagi, Hire Bagewadil, Tal. Dist. Belagavi, Karnataka -591 109.
90	9 Tine Rigid Cultivator (Tractor Mounted) SAE 9 TRC	Commercial	IMP-445/840	03/2018	
91	Fooder Mini Chaff Cutter (Electrical Motor Operated) KK-FMC-500	Commercial	Machine-225/841	03/2018	M/s. KisanKraft Machine Tools Pvt. Ltd., Sri Huchhanna Tower, # 4 Ist Main 7A Cross, Maruthi Layout, Dasarahalli, H.A.F. Post, Hebbal, Bangaluru-560 024,
92	2 Bottom Disc Plough (Tractor Mounted) 2BDP	Commercial	IMP-446/842	03/2018	M/s. Sri Balaji Industries, 622/1, ELGI Industrial Area, Trichy Road ,Singanullur, Tamil Nadu-641 005.
93	Chaff Cutter (Electrical Motor Operated) 03 CC	Commercial	Machine-226/843	03/2018	M/s. Fortuneagro Impex, 'Fortune House', # 343, 9th Block, Sir M. Visvesvaraya Kengunte 1st Main Road, Bangalore - 560 056,
94	Multi Crop Thresher (Engine Operated)	Commercial	Th-33/844	03/2018	M/s. Bilal Agro Engineering Works, D. No. 204/3-13, 14, 15, Bilal Compound, Behind Onion Market, P. B. Road, Davangere - 577 002,
95	Mulch Layer (Tractor Mounted) VMM 01	Commercial	IMP-447/845	03/2018	M/s. Simple Farm Solutions Pvt. Ltd., No. 18/1, 2nd Main, 14th Cross, Rajaji Nagar, Bangalore - 560 010,
96	Two Teeth Grass Cutting Blade 2T	Commercial	COMPONENT-11/846	03/2018	Andreas Stihl Pvt. Ltd., Gut no.53/01, Pune - Nashik Highway, Kuruli, Khed, Pune-410 501
97	Three Teeth Grass Cutting Blade 3T	Commercial	COMPONENT-12/847	03/2018	Andreas Stihl Pvt. Ltd., Gut no.53/01, Pune - Nashik Highway, Kuruli, Khed, Pune-410 501

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



**DRAWBAR TEST**



**ENGINE TEST**



**DRY LAND FELD TEST**



**FIELD TEST**



**FIELD TEST ON BALER**



**NOMINAL SPEED TEST**



**ROTARY TEST**



**VIBRATION TEST**

## WET LAND FIELD TEST





**DISMANTLING**



**FIELD TEST**



## 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 2017-18</b>
1	Coconut	3.88	458	60,886
2	Mosambi	1.34	302	40,786
3	Mango	1.00	103	3,975
4	Sapota	16.00	1722	1,80,000
5.	Lemon	1.22	155	36,685
	<b>Total</b>	<b>23.44</b>	<b>2740</b>	<b>3,22,332</b>

## FIELD CROPS

Sl.No.	Name of the Crop	Area covered (Hectares)	Production	Revenue Received
1.	Red gram	6.00	38.00 Qtls	2,17,075
2.	Maize Fodder Crop	6.00	crop has been auctioned	13,675
3.	Jower Fodder Crop	27.00	crop has been auctioned	15,100
4.	Misc..	--	--	9,585
	<b>Total</b>			<b>2,55,435</b>

### NEW DEVELOPMENTS:

1. Planted the flowering gunner plants in line and length on road sides from temple gate to old guest house to enhance the beauty of the Institute.
2. Strive hard in the peak rainy season in harvesting the rain water, adopted the rain-water harvesting techniques to harvest the rain water to reach farm pond from hilly area which is 0.5 km far away from this. It's resulted in enhance the ground water level so as to meet the drinking water scarcity in summer.

## RAINFALL DATA

Sl.No.	Name of the Month	Rainfall recorded (in mm.)
1.	April,2017	04.00
2.	May,2017	08.00
3.	June,2017	109.60
4.	July,2017	29.70
5.	August, 2017	46.00
6.	September, 2017	102.50
7.	October,2017	94.00
8.	November,2017	02.00
9.	December,2017	Nil
10.	January,2018	Nil
11.	February,2018	Nil
12.	March,2018	Nil
	<b>Total</b>	<b>395.80</b>



## ADMINISTRATION

### Review cases:

Review cases of Three officials viz S/Shri S. Anjaneyulu, MTS (NT), A. Nagamuni, MTS (NT) and D.D. Dubey MTS(NT) who attained the age of 55 yrs were submitted to the Ministry during 2017-18.

### Training of Staff

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

Sl. No	Name of staff	Training details
I.	Shri B.Umamaheswarappa, LIA. Shri D.Vasuki Krishna, UDC	02 days Training Programme on “Gem and GFRs 2017” held at National Institute of Financial Management (NIFM), Faridabad from 04.09.2017 to 05.09.2017.
II.	Shri.D.Chandra Mouli, Agricultural Engineer, Shri N.V.Nageswara Rao, Sr.Technician Shri. M.S. Mohd.Ali Moula, Sr.Technician Shri B.Nagaraju, Agricultural Assistant	03 days Residential Programme on “IOT in Agriculture and Allied Sectors” at AP HRDI, Bapatla from 21.08.2017 to 23.08.2017.
III.	Dr.P.P.Rao, Director Shri B.N.Dixit, Agricultural Engineer Shri J.Bhon Singh, Technical Assistant	02 days Training Programme on “Material Testing” at M/s Geological, Metallurgical Laboratories, Bangalore from 03.01.2018 to 04.01.2018
IV.	Smt.P.Kamalabai, Senior Agriculture Engineer Shri H. Gangadhara Gowd, Compounder	02 days Training programme on “EIS Module of PFMS” held on Regional Training Centre, Institute of Government Accounts & Finance, 07.02.2018 to 08.02.2018

### Voluntary retirement

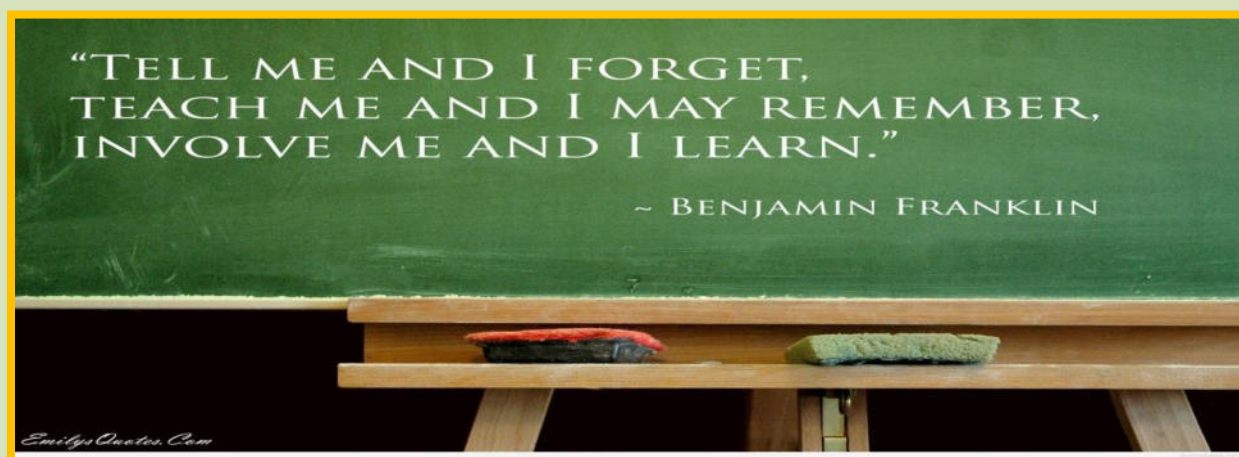
SI.No.	Name & Designation	Period
1.	Smt. D. C. Bhargavi, Senior Technical Assistant	30.11.2017
2.	Shri E.Ramanna, MTS (NT)	31.12.2017
3.	Shri K.Laxmi Reddy, MTS (NT)	31.01.2018

## 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

- Observed **Swachh Bharat Pakhwada** for 15 days from 16.05.2017 to 31.05.2017.
- Observed **“Swachhta Hi Sewa Campaign”** from 15-09.2017 to 2.10.2017  
Moreover, in compliance to Ministry’s instructions “Swachh Bharat” is being observed by every batch of trainees undergoing training at the Institute.



# INDEPENDENCE DAY



2017

# HINDI DAY/हिन्दीदिवस

18.09.2017



# REPUBLIC DAY-2018



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



**SWACHHTHA HI SEVA AT  
SRFMT&TI. GARLADINNE (A.P.)**



**18.09.2017**



**18.09.2017**



**18.09.2017**



**18.09.2017**



**19.09.2017**



**19.09.2017**



**20.09.2017**



**20.09.2017**



**21.09.2017**



**21.09.2017**



**22.09.2017**



**22.09.2017**



24.09.2017



24.09.2017



25.09.2017



25.09.2017



26.09.2017



26.09.2017



**26.09.2017**



**26.09.2017**



**26.09.2017**



**26.09.2017**

**MISSION ANTYODAYA**  
**GRAM SAMRIDHI EVAM SWACHHTA PAKHWADA 01.10.2017 TO 15.10.2017**

**MISSION ANTYODAYA**  
**GRAM SAMRIDHI EVAM SWACHHTA PAKHWADA**  
 01-10-2017 TO 15-10-2017.  
 Government of India  
 Ministry of Agriculture and Farmers Welfare  
 Department of Agriculture, Cooperation and Farmers Welfare  
 Southern Region Farm Machinery Training and Testing Institute  
 Tractor Nagar, Garladinne- 515 731, District: Anantapur (A.P.)



# YOGA DAY



21.06.2017

# MEDICAL CAMP of SAVEERA HOSPITAL

02.10.2017



# VIGILANCE AWARENESS WEEK



30.10.2017



# RASHTRIYA EKTA DIWAS



**31-10-2017**

# QUAMI EKTA WEEK



**19.11.2017 TO 25.11.2017**

# CHILDREN PARK



# ORGANIZATION CHART

