

Annual Report

2011-12



GOVERNMENT OF INDIA
MINISTRY OF AGRICULTURE (DEPTT. OF AGRI. & CO-OP.)
MECHANIZATION & TECHNOLOGY DIVISION

NORTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE

SIRSA ROAD, HISAR-125001

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ANNUAL REPORT

2011-12



सत्यमेव जयते

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PREFACE

A. N. Meshram

Director

Northern Region Farm Machinery
Training & Testing Institute,
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Sirsa Road, Hisar-125001 (Haryana)



Rural and Agriculture development is high on the agenda of the Government of India aiming at food self-sufficiency and ameliorating the quality and standard of living of its people. The policies and Programmes of the Government of India envisage major increases in agricultural productivity, for which agricultural mechanization has a key role to play. Mechanization properly implemented, will be instrumental particularly in saving energy & resources and promoting use-efficiency & productivity of other farm inputs.

The National Policy on Agriculture is now concentrating on a second green revolution or evergreen revolution for ensuring food and livelihood security of the nation. Thus, while the nation prepares for a second green revolution or evergreen revolution for ensuring food security, the necessity for promoting farm mechanizations in a strategic and more focused manner cannot be ignored.

The Northern Region Farm Machinery Training & Testing Institute, Hisar since its establishment in the year 1963 has contributed a lot in the field of agricultural mechanization in the country by way of popularizing new technology equipment through demonstrations, human resources development and quality improvement of the agricultural machines and equipments. However, with the technological advancements, the challenges in the field of agricultural mechanization are required to be addressed very efficiently for which the institute also have to share more responsibilities. The sustainable delivery and support systems have to be brought in to address the problems of the end users for which augmentation of the facilities and infrastructure at the institute is necessary.

I am happy to release the Annual Report of the Institute for the financial year 2011-12 which gives brief information about different activities of the Institute. I take this opportunity to thank all officers and staff of this institute for their coordinated efforts in achieving the desired targets and at the same time I would like to urge to continue this for the future.

(A. N. Meshram)

THE INSTITUTE

The modernization of agriculture through progressive use of modern agricultural machinery and improved farming techniques, will promote higher productivity and production, better quality agro produce and in turn, higher economic return and employment besides alleviation of drudgery associated with farm operations. Tractors, combines harvester, power tillers, irrigation pumps and other farm machinery are now being extensively used in the country. Yet, there is a lack of knowledge and experience in the proper operation and maintenance of farm machinery and also selection of machinery and implement combinations best suited to various farming conditions. To derive maximum benefit from the use of farm machinery, trained manpower is needed in the field of selection, operations and maintenance of farm machinery. Adoption of techniques of mechanized cultivation is also of great importance.

To meet this requirement, the Govt. of India established an Agricultural Machinery Utilization Training Centre at Budni (Madhya Pradesh) in 1955. Subsequently, the task of testing of tractors and allied farm machinery was also entrusted to the Centre. On augmented demand from various sectors for trained man power and need for quality improvements on equipment, Government of India established three more Farm Machinery Training and Testing Institutes at Hisar (Haryana) in 1963, Garladinne (Andhra Pradesh) in 1983 and Biswanath Chariali (Assam) in 1990. Since then the institutes are catering to the various requirements of farm mechanization in the country.

Location

Hisar is situated at latitude of 29° 10' North and longitude of 75°46' East at an altitude of 215.2 m from Sea level. The Northern Region Farm Machinery Training & Testing Institute, at Hisar is located on National Highway No. 10 and is about 170 Km from Delhi by road and 185 Km by rail. This institute is situated on Sirsa road about 5 Km from Hisar town. Hisar is well connected by road from Inter-state Bus Terminus (ISBT) Delhi & is also connected with New Delhi by rail.

Climate

Hisar is tropical monsoonal climate and is characterized as arid type of climate. It has characteristically four seasons during the year viz. summer (March to May), South West monsoon (June to September), Post Monsoon (Oct. to Nov.) and winter (Dec. to Feb.).The summers are generally quite hot and winters are fairly cool.

Annual average precipitation is about 350-400 mm. The minimum and maximum temperature at Hisar during different months is given below.

Temp.	Jan	Feb	Mar	Apr.	May	Jun
Max. °C	17.2	22.7	30.3	39.7	40.9	39.6
Min. °C	7.7	8.6	11.1	16.2	23.0	25.1

Temp.	July	Aug	Sept	Oct	Nov	Dec
Max. °C	37.5	36.4	33.5	31.4	27.9	21.6
Min. °C	26.9	24.6	24.6	19.6	11.4	6.4

MANDATES OF THE INSTITUTE

a) Training

- To train trainers in the selection, operation, maintenance/repairs, energy conservation, scheduling and management of various agricultural implements and machinery.
- To offer training programmes to the state Governments/ organizations / institutions to cater their need on various aspects of agricultural mechanization.
- To impart refresher training to technicians, rural youth, farmers and others in the repairs and maintenance and energy conservation of agricultural machines.
- To offer on the job training to technicians who want to establish their own workshops for repairs of agricultural implements, electrical motors, engines, tractors, etc.
- To train users/farmers in the operation, maintenance, energy conservation and other aspects of agricultural implements and machines.
- To arrange on-site training programme (village camps) on energy conservation, preventive maintenance, etc., for the benefits of the farmers, technicians and extension personnel.
- To conduct training programme for foreigners sponsored by international agencies like ILO, FAO, ITEC, SCAAP, etc., for improvement in their knowledge and skill in operation and maintenance of tractors and agricultural machinery.

b) Testing

i) To test the combine harvesters, engines, irrigation equipment, implements and other agricultural machines manufactured in the country or imported with a view to assess their functional suitability and performance characteristics so that the published test results would :

- Serve as a basis to decide the type of machine suited for Indian conditions, which could be encouraged for import, production and popularization.
- Help the farmers and other perspective purchaser in assessing the comparative performance of the machines and selection thereof.
- Provide data/material to extension workers for guiding farmers and other purchasers in the proper selection of the equipment and to provide material to the researchers/designers for improvement in the quality and other R&D work.
- Form basis for standard specification to be used by manufacturers and distributors.
- Help financial institutions in providing financial assistance both to the manufacturers and farmers.

ii) To test components of farm machinery for assisting manufacturers for product improvement.

iii) To promote export of agricultural machines through testing in accordance with the International/Indian Standards.

iv) To assist Bureau of Indian Standards in formulation of National Standards on agricultural equipment.

Apart from above regular testing activities, the testing wing also takes up:

- Evaluation of samples under Consumer Protection Act through District Consumer Redresses Forum.
- Preparation of comparative performance data of different machines for the benefit of user/farmers.
- Testing of prototypes/ commercial model developed by SAU and ICAR etc.
- Testing of combine harvesters under Central Motor Vehicle Rules.

Infrastructure facilities

A. Staff

The sanctioned staff strength of the Institute is 87 comprising 4 Group “A”, 7 Group “B” Gazetted, 4 Group “B” Non-Gazetted and 72 Group ‘C’ officer/officials. During the year 2011-12, 17 posts were vacant. A team of qualified technical staff is engaged in imparting “on-the-job” training under the guidance of well-qualified senior engineers. Similarly, the testing wing is manned by qualified engineers. Organizational chart of the Institute is given in Annexure -I

B. Library

The Institute has a well-maintained library having more than 17000 books both in English and Hindi, on various aspects of agricultural mechanization. In addition to text books, quite a good number of engineering journals, Indian as well as foreign are also available. There is also a large collection of Macro documents.

C. Farm

The Institute posses 101 ha Farm area out of which 43 ha is net Cultivable area.15 ha is irrigated land and rest is rain fed. Regular crops are being grown to support training & testing activities of the institute.

D. Rest house

A rest house with moderate facilities is available at the Institute for accommodating visitors and manufacturers.

E. Dispensary

A dispensary equipped with medicines and instruments of day-to-day requirements is maintained for the benefit of staff and trainees. The dispensary is staffed with a regular compounder and a part-time medical practitioner.

F. Hostel

Institute having two boys hostels & one girls hostel separately with the facility of contract mess. The total capacity of hostels is about 150 trainees. The lodging facilities to the trainees are provided free of cost.

G. Machinery and equipments

The following machinery and equipments are available in the institute for imparting training and conducting testing of agricultural machinery.

Pneumatic tractors	17
Crawler tractors	01
Transport Vehicles	02
Stationary Engines	06
Centrifugal and Submersible pumps	21
Farm machines & implements	150
Plant protection equipment	20
Horticulture tools (Petrol Operated)	03

H. Audio Visual Section

To supplement “on-the-job” training, sizeable collection of cut-way models of tractors, engines, pumps, electric motors and a number of display charts, boards and models are available. The Audio Visual Section possesses multimedia projector, 29” LCD Television, a good number of 16 mm films, video cassettes and video CDs on technical matters.

I. Laboratory

Training section is equipped with following laboratory to impart the training on various aspects of mechanization.

- Appropriate Mechanization Technology Lab.
- Agriculture Processing and Value Addition Lab.
- Non-conventional Energy Sources Lab.
- Irrigation Pump Lab.
- Gender Friendly Implements/Tools Lab.
- Plant Protection Equipment Lab.
- Bullock Drawn Implement Lab.
- Hydraulic Lab, Tractor Cut Model and Demonstration Lab.

TRAINING

The training wing is fully equipped with the facilities to impart “on-the-job” training on operation, repair & maintenance, and overhauling of Tractors, power tillers as a whole & tractor assemblies/sub-assembly *viz.* hydraulic system, auto electrical system, engine, power transmission system etc., irrigation pumps, plant protection equipments, electric motor and other hand tools, animal drawn and power operated agricultural machinery used for crop production, harvesting/post harvesting & value addition of farm produce etc. A new training calendar, showing the different training programmes being offered, their duration and schedule and training charges is given in Table no.1 & 2

TRAINEES TRAINED

Total 1886 trainee were trained against the target of 1800 during the year 2011-12. Out of the 1886 trainees, 218 are women trainees. Category-wise trainees trained include General 703, S.C: 474, ST: 16 & OBC: 690. Depending upon the Size of land holdings the trainees trained comprises of landless-1437, small - 335, medium – 65 & large – 49. The progressive total of the trainees trained since inception of the institute is 47377 out of which 120 are Foreign Nationals. The year-wise number of trainees trained is graphically shown in Annexure-II

The trainees trained during last five years, course -wise are shown in Table-3. The total trainees trained state-wise during last five years and since inception of the institute is represented in Table-4. A list of foreign nationals trained since 1984 is given in Table-5.

TABLE 1: TRAINING PROGRAMMES

S.N	Name of the Course		Duration	Fees
I	USER LEVEL COURSES:			
	U1	Appropriate Mechanization Technology for Energy Management in Agriculture	4 weeks	FREE
	U2	Selection, Operation, Safety and Maintenance of Improved Agricultural Machinery	6 weeks	
	U3	Operation, maintenance and Management of power tiller	2 weeks	
	U4	Training Program on Agro Processing & value addition Equipments	2 weeks	
	U5	Gender friendly Equipments for Women farmers	3 days	
	U6	Utilization of Non-conventional Energy Sources in Agriculture.	1 week	

	U7	Water Management Through sprinkler and drip Irrigation & Water saving devices.	1 week	
	U8	Selection, Operation, and Maintenance of Plant Protection Equipments	1 week	
	U9	Selection, Operation, and Maintenance of improved Harvesting & Threshing machines	2 weeks	
	U10	Selection, Operation, and Maintenance of Hand Pump	1 week	
	U 11	Selection, operation and maintenance of agril. Machinery for dry land agriculture.	2 week	
	U12	Crop Specific Machines:		
	a)	Package of Agricultural machinery for Paddy cultivation.	1 week each	FREE
	b)	Package of Agricultural machinery for Maize cultivation.		
	c)	Package of Agricultural machinery for Vegetable cultivation.		
	d)	Package of Agricultural machinery for Sugarcane cultivation.		
	e)	Package of Agricultural machinery for Horticulture & Medicinal crops cultivation.		
	f)	Package of Agricultural machines for oil seed and pulse crop		
	g)	Package of Agricultural machinery for forage/fodder production and fodder management.		
	U13	Information Technology application in farm mechanization		
II	TECHNICIAN LEVEL COURSES:			
	A. Courses on repair and overhauling			
	T1	Repair and overhauling of Stationery engines and tractors	6 weeks	Rs.300
	T2	Repair & overhauling of power tillers	2 weeks	Rs.100
	T3	Establishment and management of agricultural machinery repair and maintenance workshop	4 weeks	Rs.200
	T4	Study & Repair of Hydraulic system in Agriculture Machines.	4 weeks	Rs.200
	T5	Repair and maintenance of Auto Electrical equipments and Battery re-conditioning	3 weeks	Rs.150

	T6	Repair, maintenance & rewinding of Electrical motors, and submersible pumps for agricultural use	3 weeks	Rs.150
	T7	Operation & maintenance of Land shaping and Development machinery	4 weeks	Rs.200
	T8	Repair, maintenance & overhauling of diesel pumping sets	2 weeks	Rs.100
	T9	Maintenance, repair and installation of Combine Harvesters and Straw Reaper.	3 weeks	Rs.150
B. Earning while learning courses:				
	TEL-1	Repair and overhauling of Stationery engines, tractors and diesel pumping sets. (Refer course contents of T-1 course)	6 months	Rs. 200 per course
	TEL-2	Repair & overhauling of power tillers (Refer course contents of T-2 course)	6 months	
	TEL-3	Establishment and management of agricultural machinery repair and maintenance workshop (Refer course contents of T-3 course)	6 months	
	TEL-4	Repair and maintenance of Auto Electrical equipments, Battery re-conditioning, Rewinding of electrical motors and submersible pumps. (Refer course contents of T-5 & T-6 course)	6 months	
	TEL-5	Maintenance, repair and installation of Combine Harvesters and Straw Reaper. (Refer course contents of T-9 course)	6 months	
III	MANAGEMENT LEVEL COURSES:			
	M1	Testing and Evaluation of Farm Machinery	1 week	Rs. 1000 per month
	M2	Agriculture Machinery Management	1 week	
	M3	Export Management of Agricultural Machinery.	1 week	
	M4	Instrumentation for Farm Machinery Testing and Evaluation	1 week	
	M5	Entrepreneurship development to establish custom hiring agro-service centre	8 weeks	Rs. 400
	M6	Farm machinery management for dealers / traders / manufacturers, etc.	1 week	Rs. 1000 per month

IV	ACADEMIC LEVEL TRAINING PROGRAMME:			
	A1	Practical Training programme on Farm Power & Machinery for Degree/Diploma Engineering Students.	4 weeks	Rs. 200 per course
	A2	Practical Training programme on Farm Power and Machinery for ITI & vocational courses for 10+2 Students.	4 weeks	
V	AWARENESS COURSES THROUGH MULTIMEDIA SYSTEM:			
	AW1	Centrally sponsored schemes for subsidy on Agricultural Machinery, Agri-Business and Agri clinics	1 to 2 days	Free
	AW2	Straw Management in Agriculture.	1 day	
	AW3	Central Motor Vehicle Rules for Tractors, Dangerous Machines Regulation Act in Agricultural Machinery, etc.	1 day	
	AW4	Safety in Agricultural Machinery	1 day	
	AW5	Adaptation of new technology machinery - publicity	1 week	
	AW6	Bankers training programme for financing agril. Machinery.	1 day	
VI	TECHNOLOGY TRANSFER CAMPS - OFF CAMPUS			
	TT1	Energy conservation & safety in farm machinery	1 - 2 days	Free
	TT2	Familiarization and demonstration of improved/modern agril. Machines.	1 - 2 days	
VII	SJGSY	Training Programme For Rural Youth Under Swarn Jayanti Gramin Swarojgar Yojana	As per requirement of the sponsoring agency.	As per the norms of the Govt. scheme
VIII	NB	Need based Training Programme on Farm Mechanization	As per requirement	Rs. 200
IX	FN	Training programme for Foreign National as per requirements under Bilateral programme.	10 - 18 weeks	As per Govt. policy
X	DF	Special Training programme on Utilization, operation, maintenance and repair of Agril. Machinery for Defiance personnel sponsored by Director General of Re-settlement. (U-2 + T-1)	12 weeks	As per Govt. policy

The trainees under user level course (U1-U12) are provided stipend @ Rs.1200 per month to cover the boarding expenses for a month .Also to & fro travel expenses on actual basis by ordinary mode of transport are paid to these trainees.

TABLE 2: TRAINING CALENDER FOR THE YEAR 2012-13

NORTHERN REGION FARM MACHINERY TRAINING AND TESTING INSTITUTE ,SIRSA ROAD , HISAR

NAME OF COURSE		CODE	COURSE NAME	DATE OF COMMENCEMENT	DURATION (WEEKS)
A	USER LEVEL COURSES	U1	Appropriate Mechanization Technology for Energy Management in Agriculture	1 st August , 2012 1 st January, 2013	4
		U2	Selection, Operation, Safety and Maintenance of Improved Agricultural Machinery	1 st September .2012 , 16 th October 2012 1 st December. 2012, 16 th February. 2013	6
		U5	Gender friendly Equipments for Women farmers	4 th August 2012. 18 th August 2012, 13 th October 2012, 1 st December 2012, 16 th February 2013	1
		U7	Water Management Through sprinkler and drip Irrigation & Water saving devices.	2 nd February 2013	1
		U8	Selection ,operation and maintenance of Plant Protection Equipments	8 th September 2012	1
		U9	Selection, Operation, and Maintenance of improved Harvesting & Threshing machines	7 th April 2012, 13 th October 2012	2
		U11	Selection, operation and maintenance of agril. Machinery for dry land agriculture	7 th July, 2012	2
		U12 a	Package of Agril. machinery for Paddy cultivation	1st September 2012, 16 th October 2012 1 st December.2012, 16 th February 2013	1
B	TECHNICIAN LEVEL COURSES	T1	Repair and overhauling of Stationery engines and tractors	3 rd November 2012, 1 st December 2012 1 st January 2013, 1 st February 2013	6
		T5	Repair and maintenance of Auto Electrical equipments and Battery re-conditioning	14 th April 2012, 4 th August 2012 , 18 th August 2012	3
		T8	Repair, maintenance & overhauling of diesel pumping sets	1 st August 2012 1 st January 2013	2

C	MANAGEMENT LEVEL COURSES	M1	Testing and Evaluation of Farm Machinery	7 th April 2012	1
		M2	Agriculture Machinery Management	10 th November 2012	1
		M4	Instrumentation for Farm Machinery Testing and Evaluation	7 th April 2012	1
		M5	Entrepreneurship development to establish custom hiring agro-service centre	2 nd February 2013	8
		M6	Farm machinery management for dealers / traders / manufacturers, etc.	AS per requirement	1
D	ACEDMIC LEVEL COURSES	A1	Practical Training programme on Farm Power & Machinery for Degree/Diploma Engineering Students.	1 st May 2012, 4 th June 2012, 1 st July 2012	4
		A2	Practical Training programme on Farm Power and Machinery for ITI & vocational courses for 10+2 Students.	1 st April 2012, 1 st August 2012, 1 st September 2012., 1 st October 2012, 3 rd November 2012, 1 st December 2012. 1 st January 2013, 2 nd February 2013	4
F	NEED BASE	NB	Need based Training Programme on Farm Mechanization	As per requirements	
H	TRAINING PROGRAMME FOR DEFENCE PERSONNEL	DF	Special Training programme on Utilization, operation, maintenance and repair of Agril. Machinery for Defense personnel sponsored by Director General of Re-settlement. (U-2 + T-1)	As per requirements	12
I	SJGSY SCHEME TRG.	SJ	Training Programme For Rural Youth Under Swarn Jayanti Gram Swarojgar Yogana	As per requirements	2
J	TECHNOLOGY TRANSFER CAMPS	TT1	Energy conservation & safety in farm machinery	As per requirement	
		TT2	Familiarization and demonstration of improved/ modern agril. Machines.	As per need	

Note :- The training programme which are not included or available in above calendar will be conducted on demand from the needy organization

Table 3 : Course-wise trainees trained in various courses during last five years (2007-08 to 2011-12)

Name of the Course	Trainees trained				
	2007-08	2008-09	2009-10	2010-11	2011-12
User level (U)	164	485	655	408	284
Technician level (T)	48	50	86	50	81
Manegement level (M)	33	08	00	02	42
Academic level (A)	707	422	521	784	942
Technology Transfer (TT)	287	00	00	266	225
Need based (NB)	727	1083	696	376	312
Total	1966	2048	1958	1886	1886

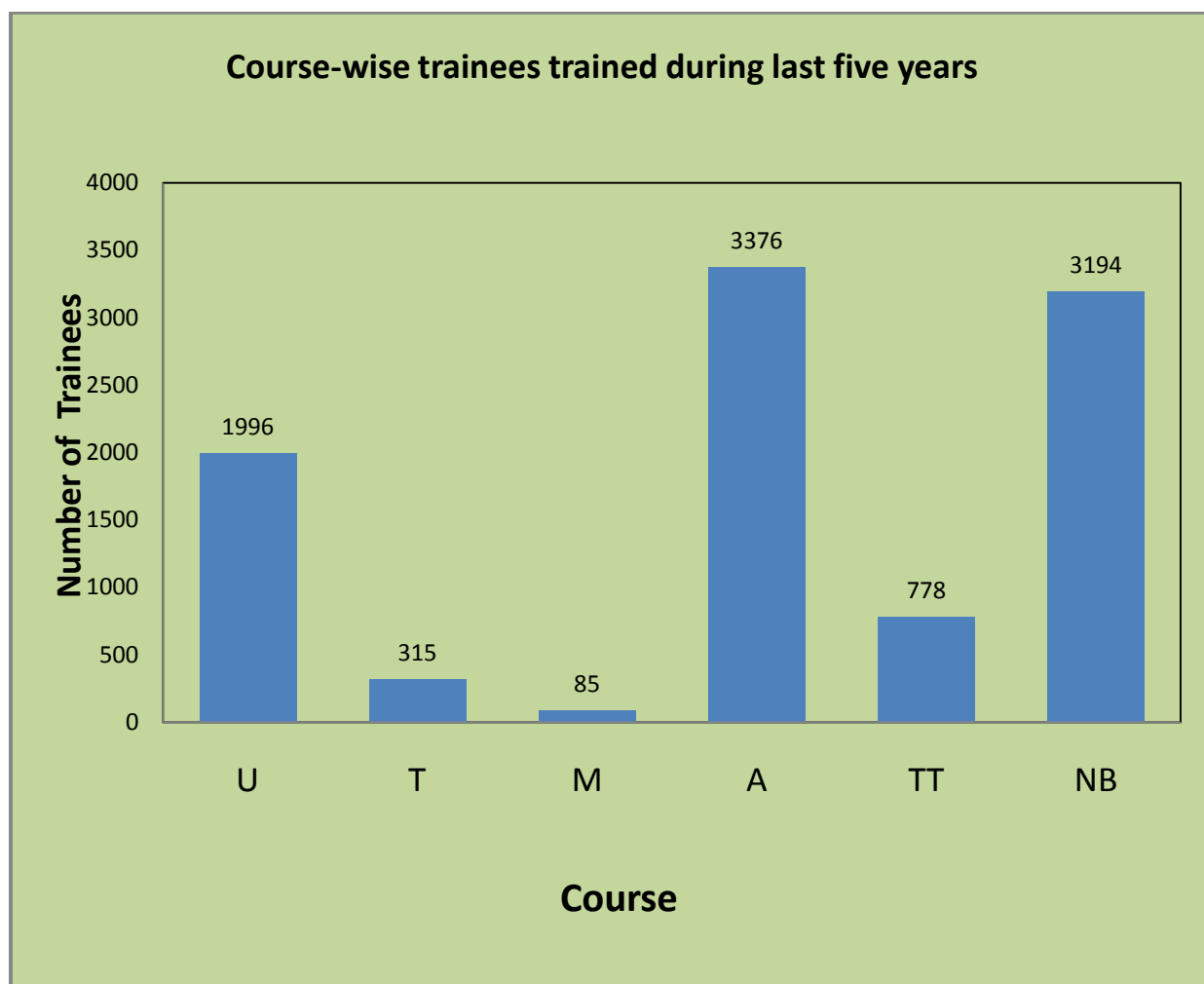


TABLE 4: STATE-WISE TRAINEES TRAINED

State	Trainees trained during last five years					Trainees trained since inception & upto March 2012
	2007-08	2008-09	2009-10	2010-11	2011-12	
Arunachal Pradesh	15	--	--	--	--	29
Andhra Pradesh	--	02	--	--	--	186
Assam	--	--	04	7	01	207
A & N Islands	--	--	--	-	-	7
Bihar	13	285	71	280	237	2121
Chandigarh	03	04	--	--	--	28
Chhattisgarh	01	15	08	01	--	24
Delhi	02	08	65	03	10	306
Gujarat	12	--	10	06	27	375
Goa	--	1303	--	--	--	21
Haryana	1435	03	1460	1116	1150	25283
Himachal Pradesh	--	--	01	--	01	427
Jammu & Kashmir	--	01	07	06	01	314
Jharkhand	01	--	08	02	01	32
Kerala	--	10	--	--	01	172
Karnatka	02	104	--	...	--	91
Madhya Pradesh	15	--	07	52	40	842
Maharashtra	145	--	46	88	114	2000
Manipur	--	--	--	--	--	69
Mizoram	--	--	--	-	--	13
Meghalaya	--	--	--	-	--	10
Nagaland	--	--	--	--	--	79
Orissa	15	27	15	13	18	433
Punjab	07	41	13	01	03	1872
Pondicherri	--	--	--	--	--	1
Rajasthan	14	130	53	34	24	5628
Tripura	--	--	--	--	03	45
Tamil Nadu	--	--	--	...	03	434
Uttar Pradesh	282	103	177	244	241	5611
West Bengal	04	04	03	07	10	442
Sikkim	--	--	--	..	--	1
Uttaranchal	15	07	10	26	01	154
Foreigner	--	--	--	--	--	120
Total	1981	2047	1958	1886	1886	47377

TRAINING INFRASTRUCTURE



Hostel



Library



Village Camp

Dispensary





Hydraulic Lab



Cut Model Section



Demo Equipments



Reaper binder in operation

TABLE 5: FOREIGN NATIONALS TRAINED SINCE 1984

Name of the Country	Trainees Trained
Algeria	1
Bolivia	1
Egypt	2
Ghana	1
Kenya	4
Madagascar	2
Malawi	11
Morocco	1
Nigeria	3
Syria	3
Seychelles	1
Tanzania	2
Vietnam	1
Bhutan	2
Botswana	2
Ethiopia	3
Iraq	1
Laos	5
Mauritius	1
Myanmar	3
Nepal	2
Philippines	3
Sudan	2
Thailand	1
Uganda	8
Total	66

Note : 54 trainees were trained before 1984.

TESTING

Govt. of India set up the testing wing of this Institute in the year 1972. It acts as an important link between manufacturers and users of Agricultural machines as well as other agencies responsible for the introduction and popularization of farm equipments. Two types of tests *i.e.* commercial and confidential are carried out at the Institute. **Commercial tests** are aimed to verify the declarations / claims of the manufacturer/ applicant for performance characteristics of machines that are in or ready for commercial production. **Confidential tests** are carried out for providing confidential information on the performance of machines, whether ready for commercial production or not or to provide any special data that may be required by the manufacturer / applicant.

The testing wing of this Institute is equipped with specialized and modern scientific equipments/ instruments for conducting various tests on a wide range of agricultural machines

The testing wing has following operational laboratories for testing of Agricultural machines and equipments

- Engine Test Laboratory.
- Plant Protection Equipment Test Laboratory.
- Irrigation Pump Test Laboratory
- Implement Test Laboratory.
- Fuel Filter Test Laboratory.
- Design and Drawing Section.
- Instrumentation Cell.
- Computer Cell and Reprographic Section.

This Institute is authorized by the Ministry to test Combine Harvesters. The testing wing is fully commissioned to take up the tests on Self-propelled combines and engines having output capacity from fractional horsepower up-to 700 kW.

The institute has also been authorized to issue CMVR certificates to the combine harvester manufacturer under rule 126 of the Central Motor Vehicles Rules 1989 by Ministry of Shipping, Road Transport and Highways.

Apart from the above regular testing activities, the testing wing also takes up the evaluation of samples under Consumer Protection Act through District Consumer Redressal Forum.

The Testing authority actively participates in the proceedings of various sectional committees of BIS meant for formulation of Indian Standards on Agricultural tractor and other Farm machinery and committees formulated by Ministry of Agriculture on mechanization aspects..

Machines tested

During the year 2011-12, total **75** machines have been tested against the annual target of 74 machines. Since inception total **1409** machines have been tested. Category-wise machines tested during the last 5 years and since inception are given in table 6. The list of machines tested during 2011-12 is given in Table -7. The number of machines tested year-wise is represented graphically in Annexure -III & category-wise machine tested since inception is shown graphically in Annexure -IV

Table 6: Category-wise Machines Tested:

Category of Machine	Number of machines tested during last five years					Machines tested since inception and up-to March 2012
	2007-08	2008-09	2009-10	2010-11	2011-12	
Wheeled tractor	--	--	--	--	--	14
IC engine	12	--	--	--	--	205
Tillage Implements	13	18	41	62	20	204
PP Equipment	5	6	31	12	17	143
Harvesting & Threshing Equipments	5	16	29	22	28	269
Seed drill & Planters	4	6	17	18	7	315
Irrigation Pumps	1	--	--	--	--	50
Components	15	31	12	5	3	109
User Survey	--	--	--	--	--	100
Total	55	77	130	119	75	1409

TABLE-7 COMMERCIAL TEST REPORTS RELEASED DURING THE YEAR 2011-2012

S. N.	Name of Machine	Test report No.	Month of release
1	STRAW REAPER "JAI SHREE-822" M/s. Jai Shree Vishwakarma Agri. Industries, Dirba Mandi	Imp-508/1336	April 2011
2	STRAW REAPER "VISHAVKARMA-741" M/s. Vishwakarma Agri. Industries, Dirba Mandi.	Imp-509/1337	April 2011
3	ROTA VATOR "NORTH INDIA-749" M/s. North Agro Ind., Sham Nagar, Dirba Mandi	Imp-510/1338	April 2011
4	TRACTOR FRONT MOUNTED REAPER "SARDAR" M/s. Roop Agri. Works, Mansa	Imp-511/1339	April 2011
5	Combine Harvester -Manpreet-765 M/s. Manpreet Agro. Industries, Nabha, Distt. Patiala (Pb.)	Comb-57/1340	May 2011

6	Zero till Seed Cum fertilizer drill "Commander" M/s. Kassa Singh & Sons, Jandiala Guru, Amritsar	Imp-512/1341	May 2011
7	Zero till Seed Cum fertilizer drill "Kamboj" M/s. Kamboj Krishi Udyog, Pehowa	Imp-513/1342	May 2011
8	Zero till Seed Cum fertilizer drill "Sonalika" M/s. Sonalika Agro. Ind Corpn., Hosiarpur	Imp-514/1343	May 2011
9	Combine Harvester "Pal-977" M/s. Pardeep Agro. Industries, Assarpur, Distt. Patiala (Pb.)	Comb-58/1344	June 2011
10	Combine Harvester "Bakhsish-930" M/s. Gill Agri. Works, Ghagga (Pb.)	Comb-59/1345	June 2011
11	Combine Harvester "Jagdeep-842" M/s. Jagdeep Agri. Works, Dirba Mandi	Comb-60/1346	June 2011
12	Combine Harvester "K.Rama-1008" M/s. K.Rama Comb. Pvt. Ltd., Devigarh	Comb-61/1347	June 2011
13	Combine Harvester "Preet-949-I" M/s Preet Agro. Ind. Pvt. Ltd., Nabha (Pb.)	Comb-62/1348	June 2011
14	Zero till Seed Cum fertilizer drill "Vikas" M/s. Vikas Industries, Sagar (M.P.)	Imp-515/1349	June 2011
15	Cultivator "Vikas" M/s. Vikas Industries, Sagar (M.P.)	Imp-516/1350	June 2011
16	Rotary Tiller M/s. Perfect-Tech Enterprises, Noida	Imp-517/1351	July 2011
17	Power Sprayer-F-708 M/s. Swarna Agri Tech Consultants Engg. Amertpet, Hyderabad	PS_75/1352	July 2011
18	Power Sprayer -YC-268M M/s. Swarna Agri Tech Consultants Engg. Amertpet, Hyderabad	PS-76/1353	July 2011
19	Power Sprayer -YC-82AS M/s. Swarna Agri Tech Consultants Engg. Amertpet, Hyderabad	PS-77/1354	July 2011
20	Mist Blower Sprayer M/s. Andrew Stihl Pvt. Ltd, New Delhi	PS-78/1355	July 2011
21	Power Sprayer M/s. Ganpati Engg. Comp. Guntur	PS-79/1356	July 2011
22	Maize Thresher "Kisan" M/s. Hindustan Agro. Corporation, Hoshiarpur	Imp-518/1357	July 2011
23	Combine Harvester (Tractor Powered) "Samrat-530" M/s. S.S. Agro. Tech. Devigarh Road, Patiala	Comb-63/1358	July 2011
24	Zero till Seed Cum fertilizer drill "MMS" M/s. Malout Agri. Works, Ratiya	Imp-519/1359	Aug. 2011
25	Tractor Operated Power Sprayer "Vishavkarma" Vishavkarma Agri. Works, Sirsa Road, Sardulgarh	PS-80/1360	Aug. 2011
26	Zero till Seed Cum fertilizer drill "ASS" M/s. A.S.S. Foundry & Agri. Works, Jandiala Guru, Distt. Amritsar	Imp-520/1361	Aug. 2011
27	Zero till Seed Cum fertilizer drill "NEW BHARAT" M/s. New Bharat Agro. Industries, Chandigarh Road. Tohana	Imp-521/1362	Aug. 2011
28	Reaper Binder (4WD) M/s. BCS India Pvt. Ltd., Ludhiana	Imp-522/1363	Aug. 2011

29	Tractor Operated Power Sprayer "VISHAL" M/s.Vishal Gram Udyog Mandal, G.T.Road, Hansi	PS-81/1364	Sept. 2011
30	STRAW REAPER "ANAND" M/s. Anand Engg. Works, Vill Kaku Wala, Distt. Ferozpur	Imp-523/1365	Sept. 2011
31	Combine Harvester (Track Type) "NEW HIRA GAJRAJ-685" M/s. Ram Chand & Sons, Vill. Galwatti, Nabha	Comb-64/1366	Sept. 2011
32	STRAW REAPER "B.S.-761" M/s. B.S. Agri. Works, Opp. Civil Hospital, Mudki Road, Bagha Purana Distt. Moga (Pb.)	Imp-524/1367	Sept. 2011
33	STRAW REAPER "JANTA-981" M/s. Janta Agro. Allied Mech. Works, Bhuneheri-147001, Distt. Patiala (Pb.)	Imp-525/1368	Sept. 2011
34	STRAW REAPER "HUNJAN-2009" M/s. Hunjan Agro. Industries, Malerkotla Road, Opp. Petrol Pump, Kupkakan, Distt. Sangrur-148019 (Pb.)	Imp-526/1369	Sept. 2011
35	STRAW REAPER "MOGA-2009" M/s. Moga Agri. Works, Budhlada Road, Ratia, Distt. Fatehabad (Haryana)	Imp-527/1370	Sept. 2011
36	STRAW REAPER "SOHAL(DELUXE)-2009" M/s. Sohal Agro. Industries, Dhanaula Mandi, Sangrur Road, Distt. Barnala-148105	Imp-528/1371	Sept. 2011
37	STRAW REAPER "MALWA-2009" M/s.Malwa Agro. Industries, Vill. Danewala, Opp. Govt. Primary School, Dhabbawali Road, Malout, Distt. Mukatsar	Imp-529/1372	Sept. 2011
38	Tractor Operated Sprayer "ZIMIDARA" M/s. Zimidara Agri. Works, Village Sardulgarh Kanchiyan, Fatehabad Road, Teh.Ratia-125051	PS-81/1373	Sept. 2011
39	Tractor Operated Sprayer "VIJETA" M/s. Vijeta Agro. Industries, Chandigarh Road, Tohana-125120	PS-81/1374	Sept. 2011
40	ROTAVATOR "PARMIDNER-7" M/s. Dev Agri. Engg. Works,Nabha	Imp-530/1375	Oct. 2011
41	ROTAVATOR "SOKHI-6" M/s. Sokhi Agri. Works, Moonak (Pb.)	Imp-531/1376	Oct. 2011
42	ROTAVATOR "GURDEV-642" M/s. Gurudev Agri. Engg. Bhawanigarh	Imp-532/1377	Oct. 2011
43	STRAW REAPER "DILNAZ & GURNAZ-999" M/s. S.K. Industry, Simbalwala, Tohana Road, Tohana, Distt.-Fatehabad	Imp-533/1378	Oct. 2011
44	ROTRY WEEDER "BCS-M720" M/s. BCS India Pvt. Ltd., Ludhiana	Imp- 534/1379	Oct. 2011
45	ROTRY WEEDER "BCS-M730" M/s. BCS India Pvt. Ltd., Ludhiana	Imp-535/1380	Oct. 2011
46	ROTAVATOR "S-642 G.T." M/s. Satwant Agro. Engg. Sangrur Road, Bhawanigarh, Distt. Sangrur	Imp-536/1381	Oct. 2011

47	STRAW REAPER "Pal-077" M/s. Pardeep Agro. Industries, Vill. Assarpur, Seel Road, PO. Jogipur Near Sannaur-147001, Distt. Patiala (Pb.)	Imp-537/1382	Nov. 2011
48	STRAW REAPER "GN-61" M/s Guru Nanak Ind. Pvt. Ltd., Opp. New Grain Market, Rajpura	Imp-538/1383	Nov. 2011
49	Tractor Operated Power Sprayer "The Kissan" M/s. The Kissan Agriculture Works, Tosham Road, Hansi, Distt. Hisar	PS-84/1384	Nov. 2011
50	Tractor Operated Power Sprayer "Bharat" M/s. Bharat Industries, Bus Stand Road, Hansi, Distt. Hisar	PS-85/1385	Nov. 2011
51	Tractor Operated Power Sprayer "MOGA,MRW" M/s. Moga Repairing Works, Tohana Road, Ratia-125051, Distt. Fatehabad	PS-86/1386	Nov. 2011
52	ROTAVATOR "SFRC-175" M/s. Sardar Suchha Singh & Sons, Opp. Kotwali, Delhi Road, Hapur-245101	Imp-539/1387	Nov. 2011
53	POWER WEEDER "WEIMA-500" M/s.Rekha Agriplas Ltd., Seetharamapuram	Imp-540/1388	Dec. 2011
54	POWER WEEDER "GARUDA-3PT-600" M/s. Premier Power Equip. & Products Pvt. Ltd., Coimbatore	Imp-541/1389	Dec. 2011
55	HAND OPERATED CONT. KNAPSACK SPRAYER 'KK-16 L' M/s. Kisan Kraft Machine Tools Pvt. Ltd., 32/5 C, Vill. Dasemarahalli, P.O. Hebbel, Bangalore-560024	S-210/1390	Dec. 2011
56	ROTAVATOR ' J.D." M/s. J.D.Agri. Industries, Dhuri, Distt. Sangrur-148022 (Pb.)	Imp-542/1391	Dec. 2011
57	STRAW REAPER "DST-56" M/s. Dasmesh Mech. Works, Nabha-Malerkotla Road, Amargarh Distt. Sangrur-148022 (Pb.)	Imp-543/1392	Dec. 2011
58	DIESEL FUEL FILTER "FOWLER-JFE 47019-E" M/s. John Fowler (I) Pvt. Ltd., E-31, UPSIDC, Industrial Area, Selakui, Dehradun-248197	C-130/1393	Dec. 2011
59	DIESEL FUEL FILTER "FOWLER-JFE 47061" M/s. John Fowler (I) Pvt. Ltd., E-31, UPSIDC, Industrial Area, Selakui, Dehradun-248197	C-131/1394	Dec. 2011
60	DIESEL FUEL FILTER "FOWLER-JFE 27039P" M/s. John Fowler (I) Pvt. Ltd., E-31, UPSIDC, Industrial Area, Selakui, Dehradun-248197	C-132/1395	Dec. 2011
61	SEED DRESSING DRUM 'KVSS' M/s. Krishi Vikas Sahakari Samiti Ltd., 9-10, 3 rd Floor, Aggarisain Tower, Central Spine, Vidhyadhar Nagar, Jaipur-302012	Imp-544/1396	Dec. 2011

TESTING ACTIVITIES



Inspection of Combine Harvester against CMVR



Final wear assessment of machines

TESTING ACTIVITIES



Paddy transplanter under inspection



View of engine test laboratory



View of Testing Section



**Field performance evaluation
of straw baler**

62	STRAW REAPER "VISHAVKARMA-741" M/s. Vishavkarma Agro. Industries, Kadial Road, Dirba-148035 Distt. Sangrur (Pb.)	Imp-545/1397	Feb. 2012
63	ROTAVATOR "VISHAVKARMA-741" M/s. Vishavkarma Agro. Industries, Kadial Road, Dirba-148035 Distt. Sangrur (Pb.)	Imp-546/1398	Feb. 2012
64	ROTAVATOR "JAGDEEP-742" M/s. Jagdeep Agro. Industries, Kadial Road, Dirba-148035 Distt. Sangrur (Pb.)	Imp-547/1399	Feb. 2012
65	TRACTOR OPERATED POWER SPRAYER "VIRDI" M/s. Barwala Engg. Agro. Industries, Hansi Road, Barwala, Distt. Hisar	PS-87/1400	Feb. 2012
66	STRAW REAPER "MRW GOLDEN-2009" M/s. Moga Repairing Works, Tohana Road, Ratia-125051	Imp-548/1401	Feb. 2012
67	TRACTOR OPERATED POWER SPRAYER M/s. Moga Agri. Works, Budhlada Road, Ratia	PS-88/1402	March 2012
68	TRACTOR OPERATED POWER SPRAYER M/s. Nandha Agri. Works, Tohana Road, Ratia	PS-89/1403	March 2012
69	TRACTOR OPERATED POWER SPRAYER M/s. Sewa Ram Agri. Works, G.T.Road, Bhuna More, Fatehabad Distt. Fatehabad (Haryana)	PS-90/1404	March 2012
70	ROTARY POWER WEEDER "KK-CRT-550D" M/s. Kisan Kraft Machine Tools Pvt. Ltd.,32/5-C, Dasarahalli Main Road, H.A.Farm, P.O. Hebbal, Bangalore-560024	Imp-549/1405	March 2012
71	ROTARY POWER WEEDER "KK-SRT-910D" M/s. Kisan Kraft Machine Tools Pvt. Ltd., 32/5-C, Dasarahalli Main Road, H.A.Farm,P.O. Hebbal, Bangalore-560024	Imp-550/1406	March 2012
72	ROTARY TILLER "MH-195" M/s.Ratnagiri Impex Pvt. Ltd, No.1/1G, New Guddadahalli, 7 th Cross, Mysore Road, Bangalore-560026	Imp-551/1407	March 2012
73	ROTARY TILLER "ASPEE-RT-5 B" M/s. American Spring & Pressing Works Pvt. Ltd., ASPEE House, B.J.Patel Road, P.O.Box No. 7602, Malad (W), Mumbai-64	Imp-552/1408	March 2012
74	BRUSH CUTTER (POWER OPERATED) "GREAVES-GSC-G-530" M/s. Greaves Cotton Ltd, Petrol Engine Unit, F 62 & 63, Sipcot, Industrial Complex, Gunindipondi- 601201(Tamilnadu)	Imp-553/1409	March 2012
75	POST HOLE DIGGER (TRACTOR OPERATED) "KISCO" M/s. Kalsi Industries, G.T.Road, Sahabad Markanda Distt. Kurushetra-136135	Imp-554/1410	March 2012

Testing of combine harvesters under Central Motor Vehicle Rules (CMVR):

The institute is authorized to test combine harvesters against the statutory of requirements under Central Motor Vehicle Rules (CMVR). During the year 2011-12 the institute issued CMVR certificate on **35** combine harvesters.

How to Avail testing Facilities

The following process is followed by the institute for testing of machines:

- The applicant is required to submit 3 copies of application form in the prescribed format for testing of machine separately for each machine. The form can be obtained from the institute on payment of Rs. 25. It can also be downloaded from the website of the institute and submitted together with a Demand Draft of Rs. 25.
- The receipt of application is acknowledged.
- The received application is placed in the waiting list of the appropriate category of machine
- Upon their turn, the applicant is informed to submit the machine for test together with the applicable test fee and the relevant literature of the machine. The test fee (as revised from time to time) is required to be deposited by way of demand draft drawn in favour of the Director, NRFMT&TI & payable at State Bank of India, Hissar (Haryana). The current testing charge/ fee fixed with reference to the Ministry of Agriculture, Department of Agriculture & Cooperation, New Delhi OM No.10-6/98 My (I & P) dated 16.5.2000 in respect of different agricultural machinery for the financial year 2012-13 are given in table No 8.
- The machine is tested (lab and field test) with reference to the relevant standards.
- Final inspection of the machine is carried out together with the wear analysis and chemical composition of critical components.
- After completion of all the tests, the collected data is analyzed and draft report in the standardized format is prepared.
- After scrutiny of the draft report at different levels, the draft report is released for comments of applicant and Ministry.
- The comments from the applicant are to be received within 15 days of the release of DTR. If not received, the final decision is taken by the testing authority.
- The comments of applicant, if any, are examined. If these are of editorial nature, then these are corrected in the report. Technical comments, if any, are incorporated in the final report under separate chapter as 'Applicant's Comments'
- Final report is released under the signature of Testing Engineer, Head of the Testing laboratory and Head of the institution.
- 3 copies of final report are released to applicant free of cost. Additional copies if any required are supplied @ Rs. 200 per copy.
- After the release of final test report, the machine (test sample) is released to the applicant

SOME NEW TECHNOLOGY EQUIPMENT TESTED BY THE INSTITUTE



Happy Seeder



Power weeder



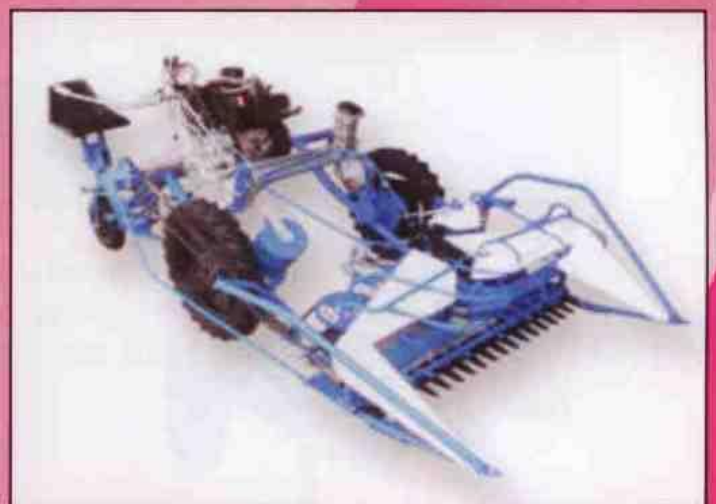
Paddy Transplanter



Traveler Irrigator



Round baler



Reaper Binder



Brush cutter



Square baler



Sugarcane pit planter



Battery Operated Knapsack Sprayer



Maize Thresher



Self Propelled Reaper Binder

Table 8- TESTING CHARGES W.E.F. 1.4.2012 to 31.3.2013

S.No.	Item	Testing charges	Service Tax @ 12.36%	Total
1	Components	5280	653	5933
2	Hand tools	5280	653	5933
3	Power operated thresher, decorticator, sheller, winnowers etc.	21,107	2609	23,716
4	Animal drawn equipments	11,259	1392	12,651
5	Tractor drawn/operated implements/equipements	35,885	4435	40,320
6	Manually operated equipment	10,202	1261	11,463
7	Power tiller driven/self propelled reaper etc.	21,107	2609	23,716
8	Tractor drawn/operated seed cum fertilizer drill/planter, straw reaper, Mini rice mill, power seed cleaner/grader	37,642	4653	42,295
9	Animal drawn Multi tool bar (Minimum for attachments)	29,900	3696	33,596
10	Self Propelled paddy transplanter	51,362	6348	57,710
11	Power operated Multi-crops thresher (Two or more crops)	38,699	4783	43,482
12.	Samples received from Private Manufacturers : (Other than the samples under BIS Central Certification marks scheme)			
	a) IC Engines with Kerosene/LPG	9715	1201	10,916
	b) Pumpset (Engine + Pump) with kerosene/LPG	18,505	2287	20,792
	c) Pumpset without engine	8789	1086	9875
	d)Knapsack Sprayer IS: 3906 (Private sample)	12,068	1492	13,560
	e) Power Sprayer IS : 2548 (Private Sample)	31,688	3917	35605
13	Combine Harvester (ICT)			
	(a) Self Propelled	3,50,000	43260	3,93,260
	(b) Tractor driven	2,65,000	32754	2,97,754
	Combine Harvester (CMVR)			
	Type approval	60000	--	60000
	Extension	30000	--	30000

All the ICT test charges is respect of items at No. 1 to 12 will be increased by 15% at the end of each financial year.

The Testing charges for Combine Harvester are valid till 31st March 2014.

FARM

The Institute possess 152.48 ha land. The distribution of land is given below. Out of total farm land, 15 ha of land is under irrigation. The farm is utilized for extensive field training and testing of Agricultural machinery. Regular crops are grown to support training and testing activities of the institute. During the last few years the irrigated fields are suffering from water logging due to increased water table resulting in salinity of the soil, which has reduced the cultivable area to 42.92 ha. The details of land are as under:

1	Total area of the Institute	152.48 ha
2	Area under building and other Amenities	29.63 ha
3	Area under Road & channels	15.60 ha
4	Area given to P.W.D.	6.08 ha
5	Undeveloped & saline area	58.25 ha
6	Net available cultivable area	42.92 ha

Cropping calendar of 2011-12 given under:

Season	Crop	Area (Hect.)	Production (Quintals)
Kharif	Millets	12.00	82.05
Rabi	Mustard	32.00	50.00
	Wheat	08.00	250.00

OTHER ACTIVITIES

KRISHI DARSHAN EXPO -2011

Krishi Darshan Expo 2011, an Exhibition on Agriculture machinery, equipments and Agro-processing Industries, Agri Inputs etc. has been organized by **Agri India Exhibitions, Karnal** and the Ministry of Agriculture (Department of Agriculture & Co-operation), **Northern Region Farm Machinery Training & Testing Institute (NRFMTTI), Hisar (Haryana)**, was the Co-organizer of this mega event. The event was organized in the campus of this institute from 26-28 September 2011. The exhibition was inaugurated by the Shri Subrata Nath, Director (M&T), Government of India, Ministry of Agriculture. He Was accompanied by Shri Himat Singh, Deputy Commissioner (M&T).

The exhibition has offered perfect platform for the Agriculture machinery & equipment and agri input sector to come together and participate for mutual business benefits. It also facilitated a business climate for the manufacturers to transact with the companies from all over the country at one spot at one time. It has also provided an opportunity to the farmers and the trainees to see the latest technological developments in the agricultural production system. A large number of visitors from across the country such as farmers, officials of the Krishi Vigyan kendra, Agri Universities, officials of State Department of Agriculture and other FMTTIs, dealers & distributors, importers and trade visitors visited this event. Total 98 manufacturers have displayed their equipments and machines in the exhibition and during the three days of exhibition more than 15000 farmers visited the exhibition.

EIMA Agrimach india - 2011

An international exhibition and conference on agriculture machinery, equipment and agro processing industries organised jointly by FICCI, UNACOMA-Italian Farm Machinery Manufacturers Association. The Ministry of Agriculture, Govt. of India & Indian Council of Agriculture & Research (ICAR) were co-organizer of the event. It was organized at PUSA New Delhi during 08.12.2011 to 10.12.2011. In this fair, Many national & international firms participated by displaying their latest technology & products in the allotted space. The Institute also participated in the fair & displayed various equipments and machines for small and marginal farmers together with the information on training & testing activities of the institute and the schemes & programmes of Government of India on mechanization.

India International Trade Fair, 2011

During the India International Trade Fair (IITF), 2011 organized at Pragati Maidan, New Delhi from 14.11.2011 to 27.11.2011, the Institute has arranged the agriculture machinery exhibition in the Agriculture Pavillion. The institute and 12 other manufacturers participated and displayed their latest technologies & products. The list of manufacturers who participated in the fair is given below:

Manufacturers who participated in I.I.T.F., 2011		
S N	Name of Exhibitor	Products displayed
1	M/s. Bharat Industrial Corpn. Akalasar road, Moga (Pb.)	Vertical Conveyor Reaper (Tractor mounted), High capacity Fodder Chopper cum Trolley Loader, Fodder Reaper.
2	M/s. BCS India Pvt. Ltd., Vill. Mangam, PO Kohara, Distt. Ludhiana (Pb.)	Self propelled Reaper Binder, Fodder Harvester Conversion Kit for reaper binder, Power Weeders with Attachments
3	M/s. International Tractor Ltd.,	Small Tractor and matching

	H.O. Pankaj Plaza-I, Plot No. 2, Karkardooma, Community Centre, Commercial Complex, Delhi-110092	rotavator
4	M/s. Central Institute of Agricultural Engineering, Nabi Bagh, Berasia road, Bhopal (MP)	Improved Hand Tools and Implements.
5	M/s. Agritech Floritech Inc. P.O.Box No. 9609, Janak Puri, New Delhi.	Weed Cutters, Gender friendly Tools/Equipment, Equipments for Leaf & farm Waste Collection, Micro-Irrigation Solutions-Timer technology to save water, Chain Saws, Hedge Trimmers. Brush & Weed Cutter's, Crop Harvesters, Horticulture Tools & Equipment for Canopy Management of Fruit crops, Machinery for Farm Mechanization to enhance Horticulture, Farm & Orchard Productivity, Shelves for Safe Storage of Farm produce.
6	M/s. Viridi Tubewell Boring Co., Opp. Power House, Sangrur road, Patran (Pb.)	Small size Rotavator
7	M/s. Peekay Farm Equipments (India) Pvt. Ltd., Raj House, D-10/2, Okhla Industrial Area, Phase-I, New Delhi.	Power Weeder, Plant Protection Equipments
8	M/s. Blue Stallion Equipments (P) Ltd., 4472, A Street No. 10, Opp. Post Office, Shimla Puri, Ludhiana(Pb.)	Agricultural Sprayers, Agricultural hand tools, Agricultural Green House material.
9	M/s. Falcon Industries, 2524, Lane 5, Janta Nagar, Gill road, Ludhiana (Pb.)	Pinging Saws, Power Operated Lawn Equipments, Brush/Weed Cutters, Power Cultivators, Plant Protection Equipments
10	M/s. Elcome Technologies Pvt. Ltd., Gurgoan (Haryana)	Laser Land Leveler
11	M/s. Standard Coop. India Ltd., Barnala.	Combine Harvester (track Type)
12	M/s. Shona Agri. Solutions, 744/15, Krishna Complex, Jind (Haryana)	Self Propelled power weeder and Paddy transplanter

EXHIBITIONS



Krishi Darshan Expo 2011



India International Trade Fair - 2011



Eima Agrimach - 2011

OTHER ACTIVITIES



Hindi Diwas



Sports Activities on Republic Day

Comptions on Hindi Diwas



PUBLICATION OF TRAINING MATERIAL

- Publication of brochures, manuals and extension material in Hindi & English
- Prepared leaflets (Training Material) on Safety features and safe operation of Threshes, chaff cutters and sugarcane crushers.
- Prepared the 14 No. leaflets in Hindi & English on improved farm machinery suitable for this region.

हिन्दी गतिविधियां

हिन्दी कार्यशाला: दिनांक 24.06.2011 को संस्थान के सभी आधिकारियों एवं कर्मचारियों के लिए हिन्दी कार्यशाला का आयोजन किया गया। इस अवसर पर श्री संदीप चुघ, हिन्दी अनुवादक ने हिन्दी के सरल प्रयोग विषय पर अपना व्याख्यान प्रस्तुत किया। उन्होंने इस अवसर पर राजभाषा हिन्दी में कार्य करने के सरल उपाय बताये। संस्थान के निदेशक श्री ए एन मेश्राम ने राजभाषा हिन्दी के प्रयोग पर बल देते हुए कहा कि संस्थान राजभाषा हिन्दी में कार्य करने के प्रति काफी सजग है तथा संस्थान में सभी प्रशिक्षणार्थियों को हिन्दी में भी प्रशिक्षण सामग्री, प्रकाशन लेख आदि उपलब्ध कराये जाते हैं।

हिन्दी पखवाड़ा: संस्थान में 14 से 27 सितंबर 2011 तक हिन्दी पखवाड़ा का आयोजन किया गया इसका मुख्य समारोह 23 सितंबर 2011 को आयोजित किया गया। इस दौरान हिन्दी की विभिन्न प्रतियोगिताएं आयोजित की गईं। हिन्दी पखवाड़ा का शुभारंभ 15.09.2011 को संस्थान के आधिकारियों एवं कर्मचारियों की भाषण प्रतियोगिता के साथ किया गया। इस अवसर पर मुख्य वक्ता प्रसिद्ध साहित्यकार डा. मधुसुधन पाटील ने अपनी व्यंग रचनाएँ प्रस्तुत कीं। संस्थान के निदेशक श्री ए एन मेश्राम ने भाषण के विषय 'जन लिंकपाल बिल' पर बोलते हुए कहा कि भ्रष्टाचार एक गंभीर समस्या है तथा इसका समाधान हमें स्वयं जागरूक रहकर करना चाहिए। हिन्दी पखवाड़ा का मुख्य समारोह जिसका आयोजन 23 सितंबर को किया गया के अवसर पर संस्थान एवं अन्य केन्द्रीय कार्यालयों, बैंक तथा निगम आदि में कार्यरत आधिकारियों एवं कर्मचारियों के लिए काव्य पाठ प्रतियोगिता का आयोजन किया गया। समारोह में हरियाणा के राज्य कवि श्री ऊदयभानु जी हंस को मुख्य अतिथि के रूप में आमंत्रित किया गया। उन्होंने हिन्दी के प्रति सजग रहते हुए सम्मान देने की अपील की तथा संस्थान में हिन्दी की प्रतियोगिताओं के सफल आयोजन के लिए सराहना की। संस्थान के निदेशक श्री ए एन मेश्राम ने हिन्दी भाषा के प्रयोग पर बल देते हुए कहा कि हमें बच्चों को हिन्दी विषय के प्रति जागरूक रहने के लिए प्रेरित करना चाहिये। उन्होंने सभी आधिकारियों एवं कर्मचारियों से राजभाषा हिन्दी में कार्य करने की अपील की। हिन्दी पखवाड़ा की सभी प्रतियोगिताओं में विजेता प्रतिभागियों को मुख्य अतिथि श्री ऊदयभानु जी हंस ने पुरस्कार वितरित किए तथा संस्थान के निदेशक श्री ए एन मेश्राम ने बच्चों के वर्ग में विजेता प्रतिभागियों को पुरस्कार वितरित किए।

हिन्दी पखवाड़ा में विजेता प्रतिभागियों की सूची:

1. हिन्दी भाषण प्रतियोगिता:

नाम	पद	प्रतियोगिता मे स्थान
श्री प्रीतम सिंह	तकनीशियन	प्रथम
श्री नरेश दत्त	तकनीशियन	द्वितीय
श्री गुरजीत सिंह	तकनीशियन	तृतीय
श्री बी एन दीक्षित	वरिष्ठ तकनीकी सहायक	सांत्वना

आठवी से दसवी कक्षा के विध्यार्थियों के लिए निबंध प्रतियोगिता

नाम	पिता का नाम/अन्य संबंधित	प्रतियोगिता मे स्थान
मनीष	श्री जे पी मण्डल	प्रथम
विशाल	श्री बी एन दीक्षित	द्वितीय
वैष्णवी	श्री वाई एन राणे	तृतीय
विजय	श्री आनंद सिंह	सांत्वना
आकाश	श्री राजेश कुमार	सांत्वना
उदिता	श्री राकेश मल्होत्रा	सांत्वना
अभिनव	श्री के डोबरियाल	सांत्वना

चौथी से सातवी कक्षा के विध्यार्थियों के लिए निबंध प्रतियोगिता

नाम	पिता का नाम/अन्य संबंधित	प्रतियोगिता मे स्थान
विवेक	श्री बी एन दीक्षित	प्रथम
निशा	श्री शिवन सिंह/ श्रीमति आशा	द्वितीय
रोहित	श्री समीर कुमार	तृतीय
अनुराग	श्री ए एन मेश्राम	सांत्वना
सौष्ठव	श्री अनुरंजन कपूर	सांत्वना
साक्षी	श्री संदीप चुघ	सांत्वना

पहली से तीसरी कक्षा के विध्यार्थियों के लिए कविता प्रतियोगिता

नाम	पिता का नाम/अन्य संबंधित	प्रतियोगिता मे स्थान
सत्यम	श्री अनुरंजन कपूर	प्रथम
मयंक	श्री जे पी मण्डल	द्वितीय
तन्मय	श्री प्रीतम सिंह	तृतीय
तेजस	श्री प्रीतम सिंह	सांत्वना
जिविशा	श्री तेजवीर सिंह	सांत्वना
रितिका	श्री विपिन/रमेश मल्होत्रा	सांत्वना
मनन	श्री जे पी मण्डल	सांत्वना
वेदान्त	श्री जे पी चौरे	सांत्वना
हर्षित	श्री श्याम सिंह/आशा	सांत्वना

हिन्दी शब्दानुवाद - अधिकारियों/कर्मचारियों के लिए

नाम	पद	प्रतियोगिता मे स्थान
श्री महेश चन्द्र	कृषि अभियंता	प्रथम
श्रीमति दर्शना टुटेजा	कार्यालय अधीक्षक	द्वितीय
श्री जे पी चौरे	फार्म अधीक्षक	तृतीय
श्री बी एन दीक्षित	वरिष्ठ तकनीकी सहायक	तृतीय
श्री तेजवीर सिंह	कृषि सहायक	तृतीय

निबंध प्रतियोगिता - अधिकारियों/कर्मचारियों के लिए

नाम	पद	प्रतियोगिता मे स्थान
श्री महेश चन्द्र	कृषि अभियंता	प्रथम
श्री नरेश दत्त	तकनीशियन	द्वितीय
श्री बी एन दीक्षित	वरिष्ठ तकनीकी सहायक	तृतीय
श्री प्रीतम सिंह	तकनीशियन	तृतीय

निबंध प्रतियोगिता - प्रशिक्षणार्थी/प्रशिक्षु के लिए

नाम	पद	प्रतियोगिता मे स्थान
श्री इंद्रजीत आजाद	प्रशिक्षु	प्रथम
प्रत्युष सत्या	प्रशिक्षु	द्वितीय
विनोद कुमार	प्रशिक्षणार्थी	तृतीय

महिलाओं के लिए हिन्दी निबंध प्रतियोगिता

नाम	प्रतियोगिता मे स्थान
श्रीमति जसमीत कौर	प्रथम
श्रीमति शिल्पा मेश्राम	द्वितीय
श्रीमति रजनी सिंह	तृतीय

महिलाओं के लिए हिन्दी सुलेख प्रतियोगिता

नाम	प्रतियोगिता मे स्थान
श्रीमति शिल्पा मेश्राम	प्रथम
कुमारी पूनम चंद्रा	द्वितीय
श्रीमति जसमीत कौर	तृतीय
श्रीमति शोभा राणे	तृतीय

हिन्दी मे सबसे अधिक कार्य करने के लिए

नाम	पद	प्रतियोगिता मे स्थान
श्री तनवीर सिंह	वरिष्ठ श्रेणी लिपिक	प्रथम
श्रीमति आशा	अवर श्रेणी लिपिक	प्रथम
श्री कैलाश चंद्र	मल्टी टास्किंग स्टाफ	द्वितीय
श्री यशवंत राणे	अवर श्रेणी लिपिक	तृतीय

हिन्दी मे काव्य पाठ प्रतियोगिता

नाम	संस्थान के नाम	प्रतियोगिता मे स्थान
श्री अनुरंजन कपूर	उ क्षे कृ म प्र एवं प संस्थान	प्रथम
श्रीमति वंदना कपूर	केंद्रीय चारा उत्पादन संस्थान	द्वितीय
श्रीमति शम्मी त्यागी	केन्द्रीय भैंस अनुसंधान संस्थान	तृतीय
डा. सुधीर खन्ना	केन्द्रीय भैंस अनुसंधान संस्थान	सांत्वना

INDEPENDENCE DAY 2011

On this occasion apart from flag hoisting ceremony, cultural programmes were organized for Staff, children and trainees of this institute. The school children of the TTC School also participated and sung the patriotic songs.

REPUBLIC DAY 2012

The Republic day was celebrated with joy and spirit by the staff. Apart from the official programme of the flag hoisting various cultural and sports events were organized. All the staff and their family members were participated in the events. As a token of appreciation the prizes were distributed to all the participants in different events. The major attractions were:

- 100 m race separately for the staff above the age of 40 and up-to the age of 40
- Musical chair competition for the ladies
- Cricket match between the officers and staff
- Volleyball match between staff and trainees/apprentices
- Race for the school children between different age groups
- Tambola & Ice breaking event

FINANCIAL PERFORMANCE

The details of the financial statements showing allocation, expenditures and receipts of the institute for the last five years (2007-08 to 2011-12) are as under:

2401 Non-Plan (Rs. in Lakhs)

Sub head	2007 - 08			2008 - 09			2009 - 10			2010 - 11			2011- 12		
	BE	R.E.	Exp	BE	R.E.	Exp	BE	R.E.	Exp	BE	R.E.	Exp	BE	R.E.	Exp
Salary	138.49	131.00	123.55	175.00	190.00	185.09	246.64	246.64	242.52	239.00	239.00	235.12	265.46	265.20	230.19
OTA	00.10	0.10	0.01	00.10	00.09	0.00	00.08	00.08	0.00	00.08	0.08	0.00	00.10	00.10	00.00
Wages	20.00	20.00	18.97	21.00	23.50	23.46	31.39	30.51	30.47	30.00	30.00	26.70	32.95	32.95	32.91
Med. Tr.	8.00	5.50	3.85	5.00	4.75	4.51	4.88	6.88	6.62	12.00	12.00	11.80	6.00	6.00	03.63
DTE	3.50	5.00	3.46	4.00	3.70	3.01	3.53	3.95	3.60	4.75	4.75	4.16	6.00	6.00	05.37
OE	20.00	25.00	24.03	23.00	22.00	19.70	17.63	18.55	16.78	20.25	20.25	20.25	24.86	27.54	27.30
M&E	10.00	10.00	6.77	10.00	9.00	8.45	12.60	9.00	8.34	13.00	13.00	11.94	13.42	13.36	11.36
OC	7.00	7.00	9.51	15.00	14.50	12.76	13.33	12.66	11.25	11.50	11.50	11.25	16.00	20.00	19.88
Mn Works	22.00	22.00	20.81	24.00	22.00	16.62	17.64	17.00	17.95	08.45	08.45	08.45	15.00	31.50	17.51
Publn	1.00	1.00	0.97	1.00	0.95	0.67	0.90	0.90	0.71	0.50	0.50	0.21	1.00	1.00	00.69
Ad. & Pub	2.00	2.00	1.91	2.50	2.30	1.84	2.54	2.54	2.31	2.54	2.54	2.31	4.00	4.00	2.86
Total	232.09	228.60	213.84	240.60	292.79	276.11	351.16	348.71	340.53	342.58	342.58	332.40	384.79	407.65	351.70

4401- Non Plan (Rs. in Lakhs)

M&E	10.00	10.00	3.15	15.00	15.00	14.03	14.00	14.00	3.28	13.00	13.00	3.70	4.00	11.18	1.13
Works	20.00	23.00	23.00	20.00	20.00	20.00	19.00	18.50	8.42	10.00	10.00	05.70	13.00	18.49	12.52
Total	30.00	33.00	26.15	35.00	35.00	34.03	33.00	32.50	11.70	23.00	23.00	09.40	17.00	29.67	13.65

4401- Plan (Rs. in Lakhs)

M&E	8.00	8.00	7.76	15.00	15.00	14.37	14.37	19.00	5.55	30.00	30.00	15.96	70.00	60.00	19.84
Works	3.00	1.57	1.16	10.00	10.00	7.87	7.87	20.00	0.00	35.00	35.00	14.83	40.00	40.00	38.53
Total	11.00	9.57	8.92	25.00	25.00	22.24	22.24	39.00	5.55	65.00	65.00	30.79	110.00	100.00	58.37

Revenue Receipts (Rs.) (2007- 08 to 2011-12)

Source	2007 - 08	2008 - 09	2009 - 10	2010 - 11	2011 - 12
Training	186178	211076	231110	299531	272524
Testing	2926325	4322230	5322849	4880296	7859787
Farm	514531	1086219	516144	681119	1748299
Any other	87929	134680	246901	1352941	261976
Total	3714963	5754205	6317004	7213887	10142586

PERSONNEL MANAGEMENT

Retirements

Sl.No	Name of incumbent	Date of Retirement
1.	Sh. Onkar Chand, Daftari	30-04-2011

Appointment during 2011-12

S.N.	Name of employee	Date of appointment
1.	Sh. R. K. Ram, SAE	24.05.2011
2.	Sh. Rajiv Thakur, AE	14.06.2011
3.	Sh. Subedar Singh, Instr.	04.07.2011
4.	Sh. Anuranjan Kapoor, Admn. Officer	08.07.2011
5.	Sh. Tejbir Singh, Agri. Asstt.	14.07.2011
6.	Sh. Rajiv Anand, LDC	31.10.2011
7.	Sh. Ram Dayal, Trg. Asstt.	14.11.2011

Transfers & Promotions

Sl.NO.	Name of employee	Transferred/promoted from / to
1.	Sh. A. K. Singh, S.A.E.	Transferred to SRFMT&TI, Garladinne, Distt. Anantpur (A.P.)
2.	Sh. Y. K. Rao, A. E.	Transferred to, NERFMT&TI, Distt. Sonitpur (Assam)

Trainings

S.NO.	Name of employee	Training programme & period
1.	Sh. Sunil Patil. Trg Asstt.	Salesman training programme at Mahindra Excellence Centre, Nagpur from 02.05.2011 to 06.05.2011
2.	Sh. Gurjeet Singh, Technician	
3.	Sh. Preetam Singh	

RTI ACT

As per the guidelines of the Government of India, the RTI cell of this Institute is fully functional. The details related with the applications received under RTI Act are given below:

1.	Requests received during the year including cases transferred to other public authority	12
2.	Number of cases transferred	Nil
3.	Number of cases where requests/appeals rejected by invoking section 8(l) of RTI Act, 2005	Nil
4.	Number of cases where disciplinary action taken against any officer	Nil
5.	Number of Appellate authorities designated	01
6.	Amount of charges collected under RTI Act	Rs.335

Court Cases

Out of 3 cases 2 cases have been settled and for remaining cases the efforts are being made to get the same decided by the Hon' ble courts at the earliest.

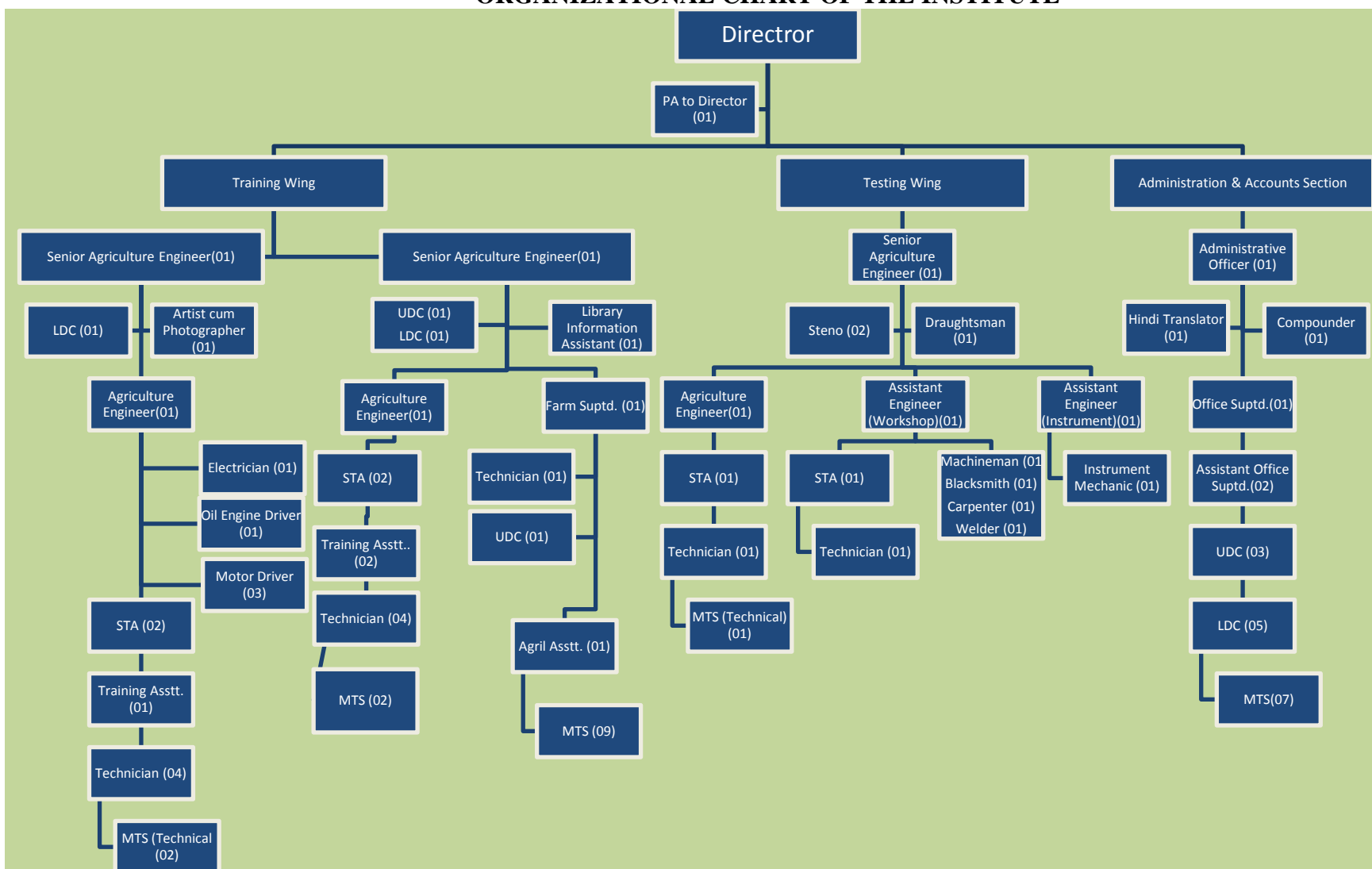
VISITS/TRAINING/MEETINGS ATTENDED

Following meetings & visits have been attended by the Director of this Institute:-

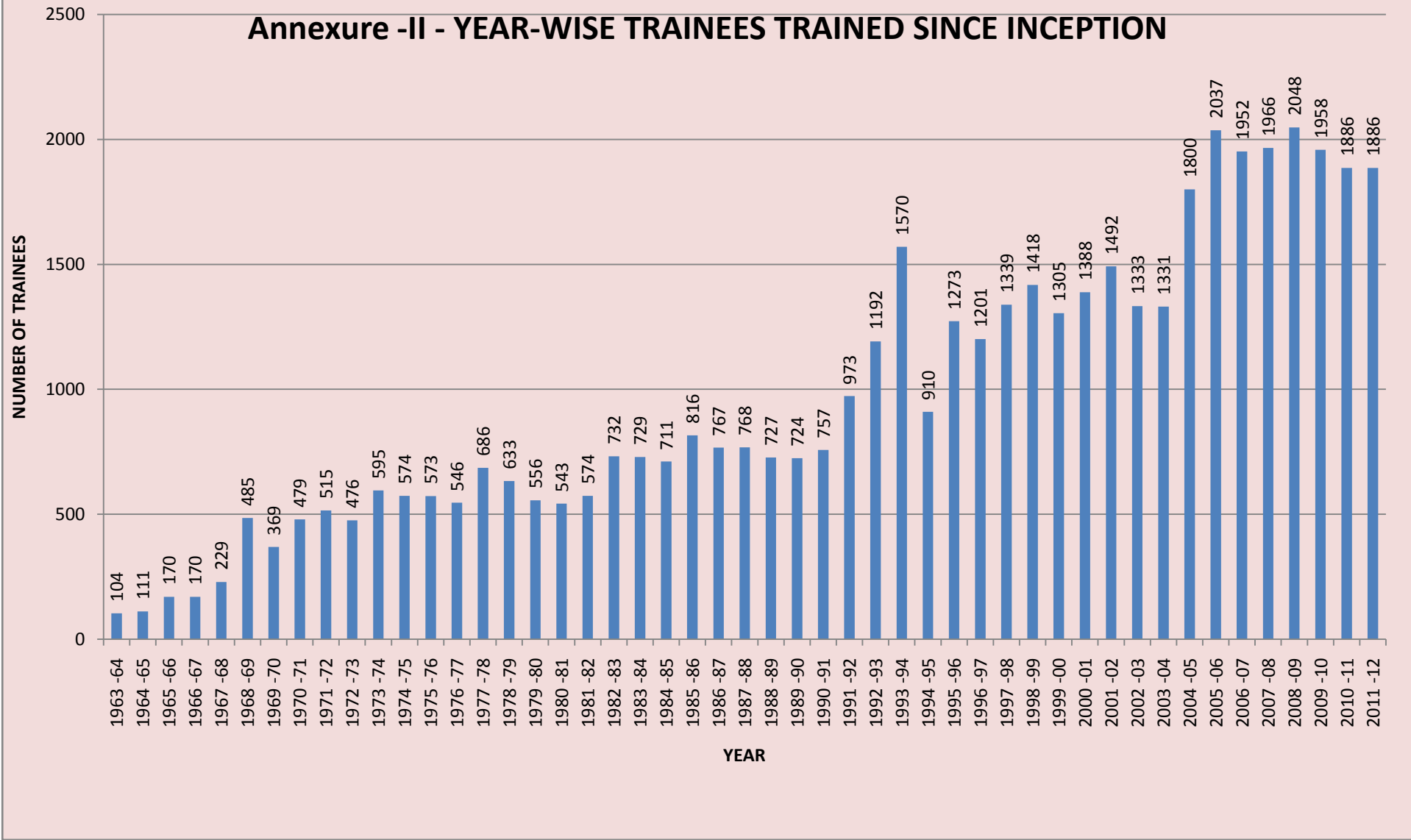
Particulars of Meeting/Visit	Place	Date
Meeting with JS (M&T) on enhancing the capacity to test 60 Combine Harvester annually at NRFMT&TI-Hisar	Krishi Bhawan, New Delhi	27.04.2011
Meeting in connection with EIMA Agrimach India 2011 under the Chairmanship of JS (M&T)	Krishi Bhawan, New Delhi	31.05.2011
Meeting under the Chairmanship of JS (M&T) for discussion on various aspects related to organizing EIMA Agrimach India 2011 and other issues.	FICCI, Tansen Marg, New Delhi	21.06.2011
Meeting on review of Court cases, status of preparation of State/region /agro climatic zone specific compendium & status of review of testing standards for certifying combine harvester under the Chairmanship of the JS(M&T).	Krishi Bhawan, New Delhi	15.07.2011
Court cases/Meetings with Sr. Central Government Standing Counsel	CAT Chandigarh	18.07.2011 02.08.2011 25.11.2011 01.12.2011 02.02.2012 17.02.2012 06.03.2012
Visit of the Rajya Sabha Parliamentary Committee on papers laid on the Table of Rajya Sabha.	Bangalore	26.07.2011 to 28.07.2011
Review meeting of the functioning of FMTTI's under the chairmanship of JS (M&T).	Krishi Bhawan, New Delhi	23.08.2011
Standard development meeting organized by John Deere, Pune	Chandigarh	26.08.2011
Annual function of the All India Combine Harvester Manufacturers Association followed by a meeting on standardization of the Engines for Combine Harvester application.	Malerkotla (Pb.)	13.09.2011
1 st meeting of special Coordination	ARAI, Pune	02.11.2011

Committee of the test agencies.		
Visited Pragati Maidan for making arrangement of Agriculture machinery exhibition in the Ministry of Agriculture pavilion at IITF.	Pragati Maidan New Delhi.	13.11.2011
Inaugural function and conference at EIMA Agrimach India 2011.	Pusa, New Delhi	08.12.2011
37 th meeting of CMVR TSC	ICAT, Gurgaon.	09.12.2011
RTI Case at Central Information Commission	Bhikaji Cama Place , New Delhi	12.12.2011.
Meeting for discussion on Agriculture, economic and industry trend in India and Punjab organized by John Deere, Pune	Chandigarh	10.01.2012
Discussion on DPC, proposals on works and purchase of equipments, court cases etc with US (M&T)	Krishi Bhawan, New Delhi	18.01.2012
Attended FAD 11 meeting of BIS & sub group meeting on CMVR of tractor powered Combine.	Manak Bhawan New Delhi	01.02.2012
Attended FAD 20 meeting of BIS.	Manak Bhawan New Delhi	10.02.2012

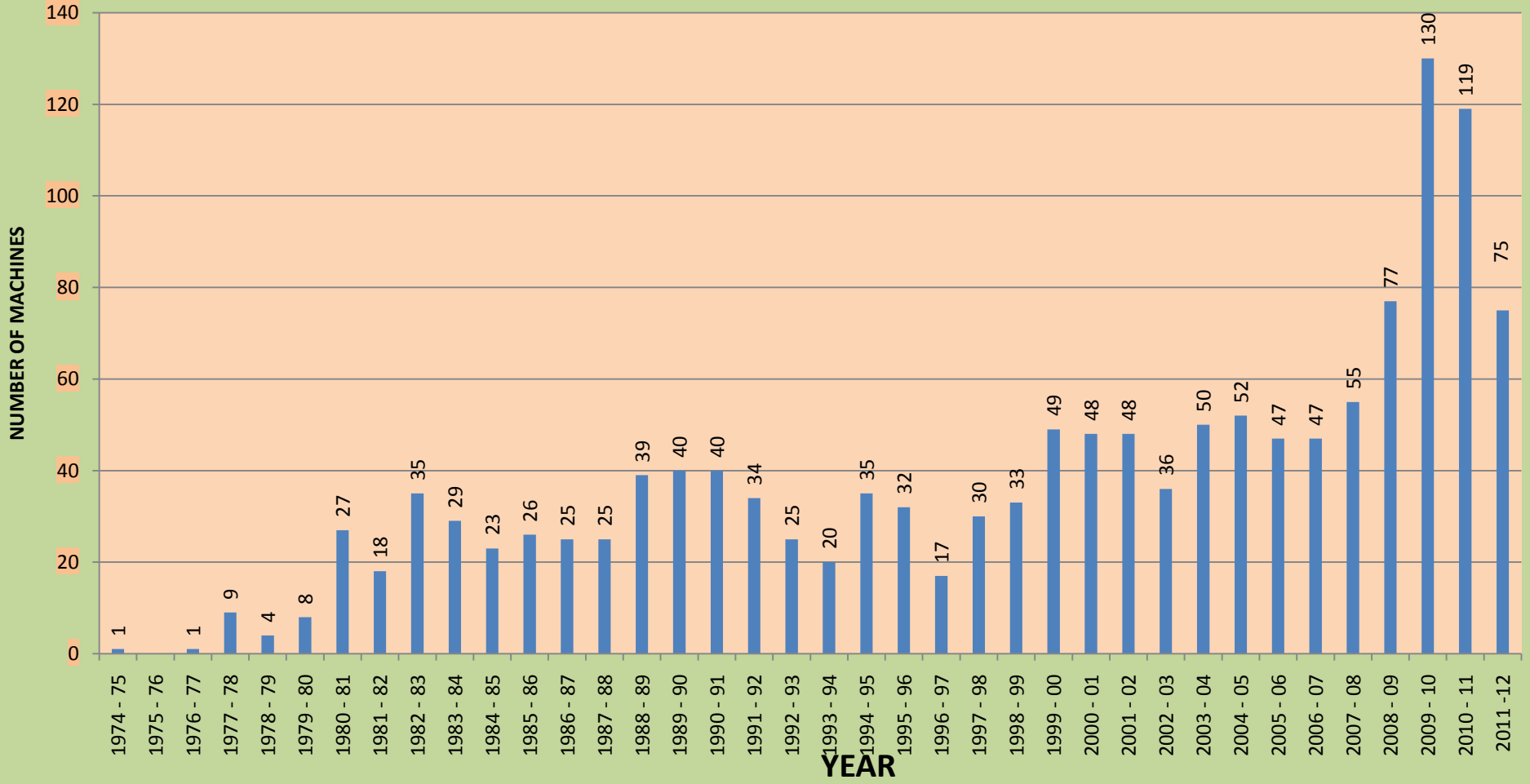
ORGANIZATIONAL CHART OF THE INSTITUTE



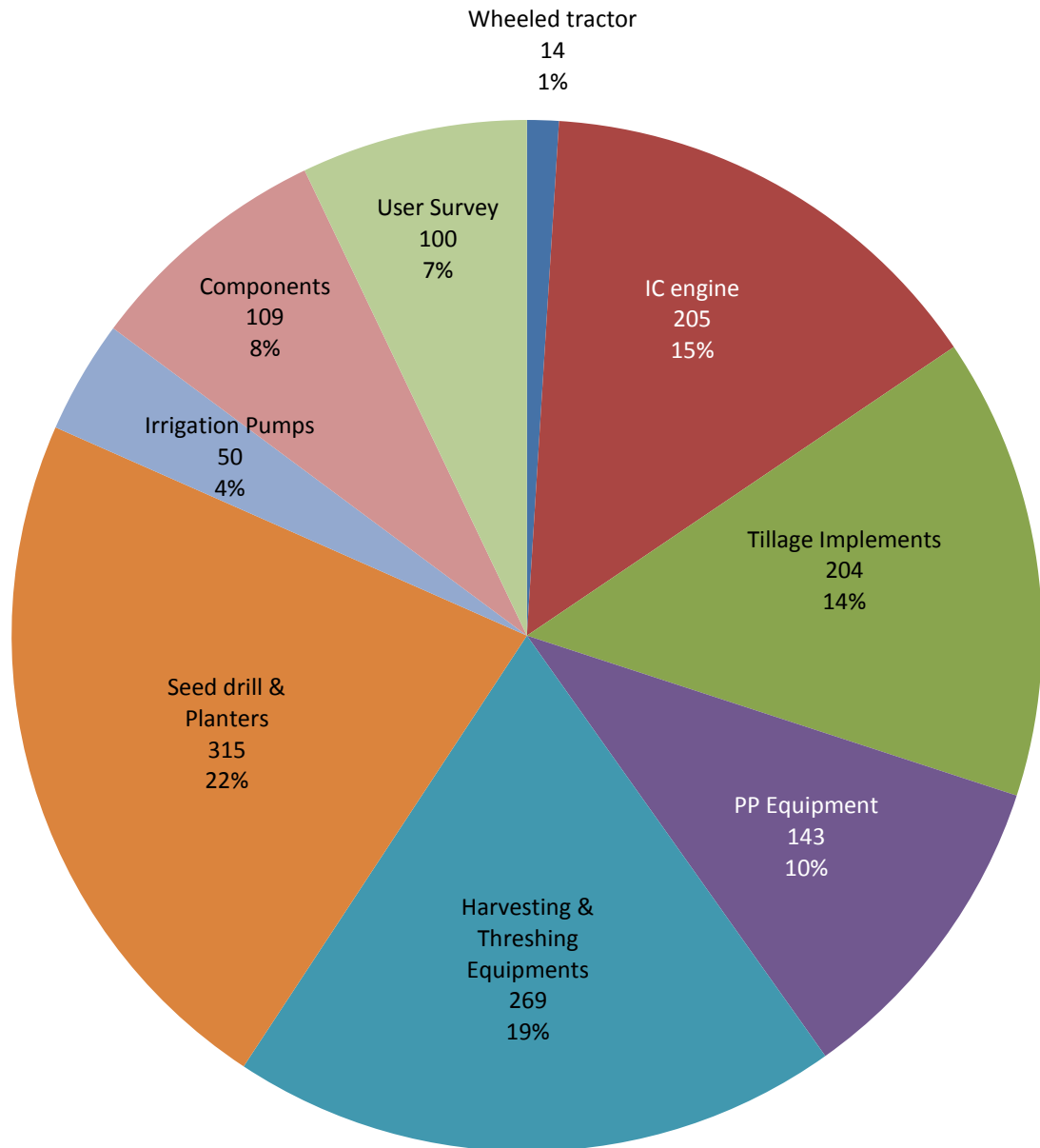
Annexure -II - YEAR-WISE TRAINEES TRAINED SINCE INCEPTION



Annexure-III- YEAR-WISE MACHINES TESTED SINCE INCEPTION



Annexure -IV - CATEGORY-WISE MACHINES TESTED SINCE INCEPTION



SOCIAL ACTIVITIES



Holi Milan



Hawan for Peace

Farewell





View of Farm

**Demonstration on Laser
Land Leveller**



**Practical training
on dismantling**

**Field performance
evaluation of combine**

