



सत्यमेव जयते

Annual Report

2019-20

कृषि एवं किसान कल्याण मंत्रालय

MINISTRY OF AGRICULTURE AND FARMERS WELFARE

कृषि, सहकारिता एवं किसान कल्याण विभाग

DEPARTMENT OF AGRICULTURE, COOPERATION AND FARMERS WELFARE

उत्तर पूर्वी क्षेत्र कृषि यंत्र प्रशिक्षण एवं परीक्षण संस्थान

NORTH EASTERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE

विश्वनाथ चारिआलि, जिला- विश्वनाथ (असम)

BISWANATH CHARIALI: BISWANATH: ASSAM, PIN - 784 176

AN ISO 9001:2015 Certified Institution

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Preface

The agriculture farm mechanization refers to the development and use of machines that can take the place of human and animal power in agricultural processes. The mechanization of agriculture that took place during the 21st century led to major changes in how farmer's plant, irrigate and harvest crops. The type of equipment combine harvester, agriculture tractor, power tiller and other allied agriculture machines, enables farmers to increase their agriculture production instead of less depending upon labour and animal requirement in rural areas.

The North Eastern Region Training & Testing Institute, Bishwanath Chariali, Dt. Bishwanath (Assam) has been setup by – Government of India, Ministry of Agriculture and Farmers Welfare, Department of Agriculture & Farmer Welfare, New Delhi in the year of 1990. At present the Institute is 'An I.S.O. 9001 – 2015 Certified Institution'. The Institute is also working to develop infrastructural facility to cope up with modern technological development. The Institute to providing training on various type of training program by way of theory, practical, utilization, operation & maintenance, auto electrical and dimensional measurement of engine components followed by SMAM guidelines. However, consequently the farm mechanization has reached to number of rural farmers of North East Region and across India to overcome the requirement of human labour which are not usually available due to urbanization of labour from rural area to states. Apart from this the Institute has testing facility of small diesel engine, Fractional Horse Power Engines and different type of intra-culture equipment is tested by way of modern Instrumentation, automation process as per the guidelines of 'Bureau of Indian Standards' reaffirmed time to time. The 'CMVR' testing facilities are yet to develop at the Institute in near future.

The testing of agriculture equipments and allied machines helps in improving, catering the Industry, manufacturing of appropriate farm machinery which for the benefits the Indian agriculture farming, socio-economical development. In addition to this information technology has played vital role to approach the governance to the farmers directly in 21st Century. The new solar energy system based technology has also become available an alternative source of energy to the farmers getting better results of their crop.

The Institute also provides field demonstrations of agriculture equipment in the farmer's field as per the SMAM (Sub-mission on Agricultural Mechanization) guidelines, under the various schemes of government of India announced time to time in the North Eastern region of India. All the benefits under the scheme are directly transferred to farmer /beneficiary under digital payment mission.

Consequently all the mode of case less transaction /credit, has been implemented online through '-

भारत कोष: BHARAT KOSH' -NTRP. All the procurements are now through CPPP and GeM portal as per GFR-2017 in accordance with the MoE. The Institute is achieving the set targets of training & testing and with the coherent devotion of skilled engineers and staff.

Although the advantages of owning agriculture farm mechanization is clear, many of the smaller farming operations can find it easy to keep up with the cost of advancing agricultural technology by the use of schemes of Govt. of India. The new technological developments in farm equipment point to future innovations, which may include GPS-directed farm machines, computer monitoring systems and sensory devices to allocate seed, fuel, and fertilizer more precisely and efficiently.

<http://nerfmtti.nic.in>

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Appropriate Farm Mechanization By Training ,Testing & Demonstration

उत्तर पूर्वी क्षेत्र कृषि यंत्र प्रशिक्षण एवं परीक्षण संस्थान, बिश्वनाथ चारिआलि, बिश्वनाथ – असम



Govt. of India
Ministry of Agriculture and Farmers Welfare
Department of Agriculture, Cooperation and Farmers Welfare

North Eastern Region Farm Machinery Training & Testing Institute
Biswanath Chariali: Biswanath: Assam-784176

TRAINING ON FARM MECHANIZATION (April 2020 to March 2021)

The applications are invited from the Indian citizens who are eligible for the following training programme offered by this institute

code	Name of Course	Beneficiary	Duration No. of seat	Duration of the Courses from	Last date of application	Stipend & Facility	Incidental charge
U1	Appropriate Mechanization Technology for Energy Management in Agriculture	Progressive farmers, farm Machinery owners/operators, Extension workers and related technical personnel from Govt./Semi Govt. SAUs/NGOs/SHGs.	4 weeks 40 40 40 40	06.04.20 to 01.05.20 06.07.20 to 31.07.20 31.08.20 to 25.09.20 30.11.20 to 25.12.20 04.01.21 to 29.01.21 01.02.21 to 26.02.21	16.03.20 25.05.20 27.07.20 26.10.20 27.11.20 18.01.21	Rs. 4000/- per course + to and fro fare and free Accommodation	Free
U2	Selection, Operation, Safety and maintenance of Tractor and Improved Agril. Machinery	SAUs/NGOs/SHGs.	6 weeks 40 40	03.08.20 to 11.09.20 02.11.20 to 11.12.20	26.06.20 16.10.20	Rs. 6000/- per course + to and fro fare and free Accommodation	Free
U3	Operation, Repair, maintenance & management of Power Tiller and matching equipment.	SAUs/NGOs/SHGs.	2 weeks 15 15 15	13.04.20 to 24.04.20 17.08.20 to 28.08.20 01.02.21 to 12.02.21	12.03.20 17.07.20 01.01.21	Rs. 2000/- per course + to and fro fare and free Accommodation.	Free
U5	Gender Friendly Farm machinery/Equipments for women farmers	Women Farmers	3 days 10-15 10-15 10-15 10-15	25.05.20 to 27.05.20 24.08.20 to 26.08.20 21.12.20 to 23.12.20 15.03.21 to 17.03.21	27.03.20 06.07.20 05.10.20 19.02.21	Rs. 600/- per course + to and fro fare and free Accommodation	Free
User's level courses on selection, utilization, operation, maintenance of plant protection equipment, package of agricultural machinery for paddy/sugarcane cultivation, etc. can also be organized for one week duration. The trainee will be paid a stipend of Rs. 1000/- per week and to and fro fare from their residence to the institute and back as per guidelines of SMAM.							
T1	Repair & overhauling of Stationary Engines & Tractors and Pumps	Technicians and supervisor of Govt. Departments/Agencies, Private operators, Road side mechanics, ex-servicemen and ITI pass Tractor / Diesel / Motor Vehicle Mechanic Trade Candidates.	6 weeks 20 20 20	03.08.20 to 11.09.20 02.11.20 to 11.12.20 04.01.21 to 12.02.21	26.06.20 12.10.20 04.12.20	Trainee or the sponsoring Agency has to bear the expenses. However, lodging facility is free & boarding cost borne by them.	300/-
T2	Repair and overhauling of Power Tillers	Electrician/Technicians and supervisor of Govt. Departments/Agencies, Private Electrician, ITI Pass Electrician Trade Candidates.	2 weeks 15 15 15	21.09.20 to 02.10.20 01.02.21 to 12.02.21 01.03.21 to 12.03.21	07.08.20 07.12.20 25.01.21		100/-
T5	Repair, Maintenance of Auto Electrical Equipments and Battery reconditioning	As per requirement of sponsoring agency	3 weeks 15 15 15	08.07.20 to 26.07.20 26.10.20 to 13.11.20 28.12.20 to 15.01.20	22.05.20 07.09.20 01.12.20		150/-
NB	Need Based Training program on mechanization	As per requirement of sponsoring agency	1 week 15 15 15	17.08.20 to 21.08.20 07.09.20 to 11.09.20 16.11.20 to 20.11.20 14.12.20 to 18.12.20	17.07.20 10.08.20 19.10.20 16.11.20	Trainee or the sponsoring Agency has to bear the expenses. However, lodging facility is free & boarding cost borne by them.	As per SMAM guidelines
QP-1	Selection, Operation, Safety & maintenance of Tractors	Progressive farmers desirous of taking to mechanized farming, tractor and agriculture machinery and Harvesting Machinery	5 weeks 25 25 25	27.07.20 to 28.08.20 23.11.20 to 25.12.20 01.02.21 to 05.03.21	15.05.20 19.10.20 14.12.20	Rs. 5000/- per course + to and fro fare and free Accommodation	Free
QP-2	Selection, Operation, Safety & maintenance of Harvesting Machine	Progressive farmers desirous of taking to mechanized farming, tractor and agriculture machinery and Harvesting Machinery	25 25	07.09.20 to 09.10.20 19.10.20 to 20.11.20	24.08.20 21.09.20	Rs. 5000/- per course + to and fro fare and free Accommodation	Free

- The age of the applicant must be minimum 18 years and not more than 40 years.
- The applications forms can be obtained from Director N.E.R.F.M.T. & T.I. by giving full postal address or any working day at the institute. In case of non availability of Application Form or in emergency, the candidate may apply directly to the Director FMTTI, Biswanath Chariali with full particulars and copies of the Educational/Technical qualification, certificates and other documents or they can download from institute website.
- No Stipend & TA/DA will be paid to the trainees admitted in other than User Level Course.
- Free accommodation is available to all groups of trainees in the Institute's Hostel. However, the food charges have to bear by the trainees as per the mess bill, being run by the trainees themselves.

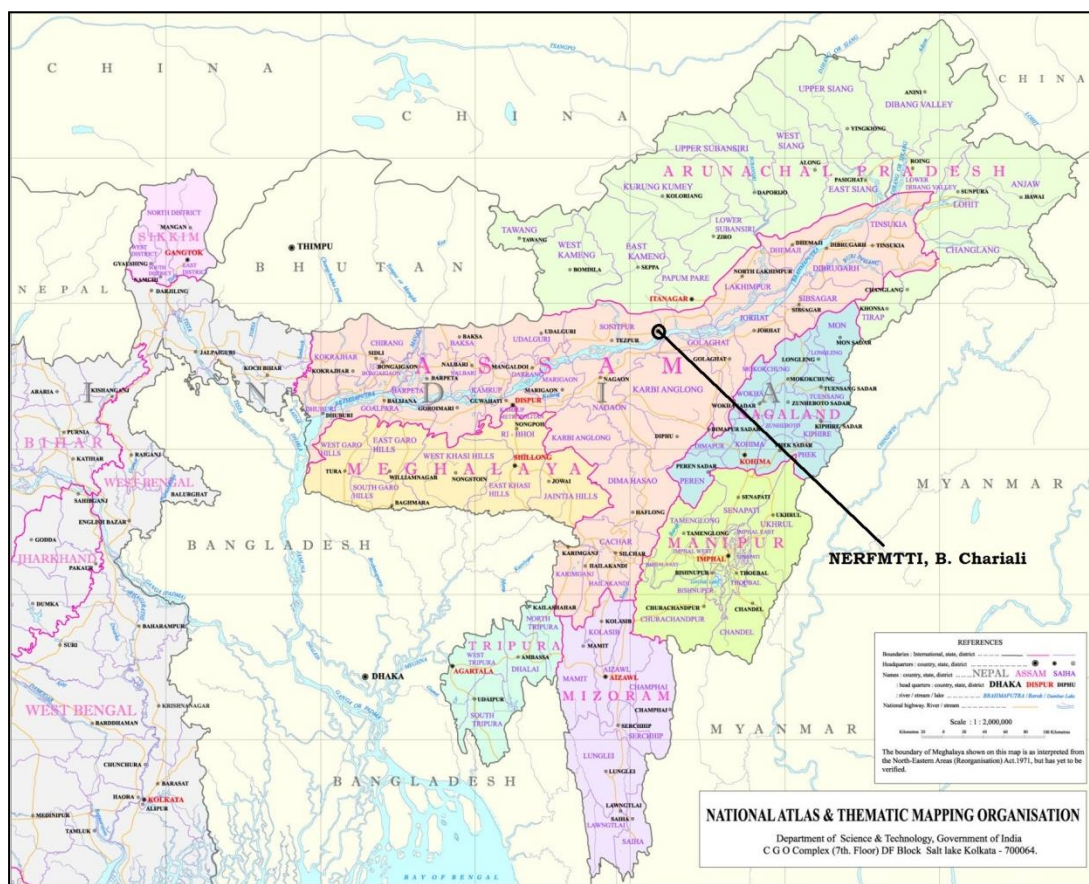
Sd-
Director

1. INTRODUCTION:

With the importance of farm mechanization to meet the growing food exigency of the population in future, the Government of India is making an effort to uphold the farm mechanization across the country by popularization of improved agricultural machinery, providing a pool of trained & skilled personals in selection, use, operation, repair & maintenance of tractors, power tillers, engines and agricultural machinery and ensuring the quality by testing of the agriculture machinery available in the market for use of the farmers. All the four Farm Machinery Training & Testing Institutes situated at Budni (Madhya Pradesh), Hissar (Haryana), Garladinne Anantpur (Andhra Pradesh) and at Biswanath Chariali (Biswanath, Assam) have been set up to fulfill the need of all the four regions of the country.

1.1 Location of the Institute:

The Institute is situated in Biswanath Chariali, Sub-Division of Biswanath District, Assam which is about 275 Kilometers east of Guwahati on NH-15 and 249.2 km via Nagaon (NH 37, NH37 (a) and NH 15).The Viswanath (VNE) railway station is 8 K.M. away from this Institute on the Broad-gauge Railway line connecting Guwahati/Rangia JN with Itanagar (Arunachal Pradesh).Nearest Airport is Tezpur (Salanibari), 75 km from the institute and Guwahati Airport at about 275 K.M. away.



Biswanath District falls in the Sub-Tropical climatic region and Annual average rainfall is about 1800 mm. The rain fall occurs from April to October. Summer is hot and humid, with an average temperature of 29° C. The highest temperature is recorded just prior to the onset of Monsoon. Summer rain is heavy and is principally caused between late June to early September by the moisture-laden South-West Monsoon, on striking the Himalayan foothills of the north. Such rain is both a boon and a bane for the people. The boon, as it provides natural irrigation to the fields; and the bane, as it causes the rivers to overflow their banks resulting to floods. Autumns are dry, and warm. It gets cooler as the months progress. Winters extend from the month of October to February, are cold, and dry with an average temperature of 16° C. Occasionally, it gets quite chilled in late December and early part of January due to snowfall in the upper part of Arunachal Pradesh. Springs are pleasant, occurring in the months of late March and April. During these months, flash rains and thunderstorms also takes place due to cyclonic winds, known in local parlance as ***Bordoichila***.

1.2 Mandate of the Institute:

Training: To impart the training on Farm Mechanization and Technology to different categories of people/trainees.

Testing: To test of various Agricultural Machinery and implements as per the guidelines of BIS code and its Evaluation.

Demonstration: To carry out demonstrations under SMAM at various places on use of Farm machinery.

2. TRAINING:

2.1 Training Objectives:

Under the various training programmes different categories of trainees such as progressive farmers, technicians, entrepreneurs, nominees from Govt. Departments, Universities, NGO, SHG are trained on selection, use, operation, repair and maintenance of tractors, power tillers and other farm machinery with the following objectives:

- To promote the farm mechanization for cultivation of different crops.
- Transfer of technology to the farmer's field.
- To provide a pool of trained and skilled personnel for selection, operation, repair & maintenance of Tractors and agricultural machinery.
- To generate self-employment for rural youth by establishing their own repair & maintenance shop for agricultural machinery at village level.
- To provide a technical support to the farmers and users of tractor & farm machinery at village level.
- To increase the production and productivity of different crops through farm mechanization.
- To increase profitability of farmers besides saving in labour and time.
- To promote the efficient use of energy resources, natural resources such as land, water etc. and other inputs like chemicals, fertilizers, seeds etc.

2.2 Training schedule:

Table 1: The details of training programmes offered by this Institute are as under:

TRAINING CALENDER FOR THE YEAR 2020-21						
1	NAME OF COURSE	CODE	COURSE NAME	DATE OF COMMENCEMENT	DURATION (WEEKS)	Eligibility
1	2	3	4	5	6	7
A	USER LEVEL COURSES	U1	Appropriate Mechanization Technology for Energy Management in Agriculture	06.04.20 to 01.05.20 06.07.20 to 31.07.20 31.08.20 to 25.09.20 30.11.20 to 25.12.20 04.01.21 to 29.01.21 01.02.21 to 26.02.21 and as per requirement	4	Progressive farmers desirous of taking to mechanized farming, tractor and agricultural machinery owners, nominees of Central/ State Government Departments , extension workers and people working in private institutions using farm machinery
		U2	Selection, Operation, Safety and Maintenance of Improved Agricultural Machinery	03.08.20 to 11.09.20 02.11.20 to 11.12.20 and as per requirement	6	
		U3	Operation, Repair, Maintenance & Management of Power Tiller and Matching Equipment	13.04.20 to 24.04.20 17.08.20 to 28.08.20 01.02.21 to 12.02.21 and as per requirement	2	
		U5	Gender friendly Equipment for Women farmers	25.05.20 to 27.05.20 24.08.20 to 26.08.20 21.12.20 to 23.12.20 15.03.21 to 17.03.21 and as per requirement	3 days	
		U7	Water Management through sprinkler and drip Irrigation & water saving devices.	03.08.20 to 07.08.20 05.10.20 to 09.10.20 and as per requirement	1	
		U8	Selection ,operation and maintenance of Plant Protection Equipment	07.09.20 to 11.09.20 02.11.20 to 06.11.20 and as per requirement	1	
		U9	Selection, Operation, and Maintenance of improved Harvesting & Threshing machines	12.10.20 to 23.10.20 04.01.21 to 15.01.21 and as per requirement	2	
		U11	Selection, operation and maintenance of Agri. Machinery for dry land Agriculture	09.11.20 to 20.11.20 01.02.21 to 12.02.21 and as per requirement	2	
		U12a	Package of Agri. Machinery for Paddy cultivation	19.10.20 to 23.10.20 22.02.21 to 26.02.21 and as per requirement	1	
B	TECHNICIAN LEVEL COURSES	T1	Repair and overhauling of Stationery engines and tractors	03.08.20 to 11.09.20 02.11.20 to 11.12.20 04.01.21 to 12.02.21 and as per requirement	6	Candidate should possess an ITI certificate in related field viz. tractor mechanic, farm mechanic, diesel mechanic or equivalent certificates. The candidates who have already undergone U2 series course are also eligible.
		T2	Repair and Overhauling of Power Tillers	21.09.20 to 02.10.20 01.02.21 to 12.02.21 01.03.21 to 12.03.21 and as per requirement	2	
		T5	Repair and maintenance of Auto Electrical equipment and Battery re-conditioning	06.07.20 to 24.07.20 26.10.20 to 13.11.20 28.12.20 to 15.01.20 and as per requirement	3	
		T8	Repair, maintenance & overhauling of diesel pumping sets	14.09.20 to 25.09.20 15.02.21 to 26.02.21 and as per requirement	2	

1	2	3	4	5	6	7
C	MANAGEMENT LEVEL COURSES	M1	Testing and Evaluation of Farm Machinery	As per requirement	1	Representative s of tractor and agricultural machinery manufacturers, private entrepreneurs, Nominated officials from the Central/State Government organizations
		M2	Agriculture Machinery Management	As per requirement	1	
		M4	Instrumentation for Farm Machinery Testing and Evaluation	As per requirement	1	
		M5	Entrepreneurship development to establish custom hiring Agro-service Centre	As per requirement	8	
		M6	Farm machinery management for dealers / traders / manufacturers, etc.	As per requirement	1	
D	ACADEMIC LEVEL COURSES	A1	Practical Training programme on Farm Power & Machinery for Degree/Diploma Engineering Students.	04.05.20 to 29.05.20 01.06.20 to 26.06.20 06.07.20 to 31.07.20 and as per requirement	4	Candidates nominated by the Degree/Diploma engineering Colleges
		A2	Practical Training programme on Farm Power and Machinery for ITI & vocational courses for 10+2 Students.	As per requirement	4	Candidates nominated by the ITI colleges
E	TRACTOR OPERATOR COURSES	QP-1	Selection, Operation, Safety and Maintenance of Tractor.	21 st June,2020 23 rd Nov.,2020, 1 st Feb. 2021	5	Progressive farmers desirous of taking to mechanized farming, tractor and agricultural machinery
F	COMBINE HARVESTER OPERATOR	QP-2	Selection, Operation, Safety and Maintenance of Harvesting Machine.	7 th Sept, 2020 19 th Oct, 2020	5	Progressive farmers desirous of taking to mechanized farming,
G	NEED BASE	NB	Need based Training Programme on Farm Mechanization	As per requirement	--	
H	TECHNOLOGY TRANSFER CAMPS	TT1	Energy conservation & safety in Farm Machinery	As per requirement	--	Agricultural machinery users
		TT2	Familiarization and demonstration of improved/ modern Agri. Machines.	As per requirement	--	Agricultural machinery users
Note: - The training programs which are not included or available in above calendar may be conducted on demand from the needy organization.						

2.3 Training facility:

I. Machinery and Equipment

The training section is equipped with a fleet of eighteen tractors, seven Power Tillers; beside this the large numbers of manual, bullock drawn, tractor drawn & self-propelled machinery/ Implements/ equipment. These includes traditional as well as and conventional and the recently developed improved agriculture machinery such as improved Blades, Self-propelled Rotary Weeder along-with attachments, Rotavators, Zero

Till Seed-Cum-Drill, Sugarcane Planter, Raised bed planter, Maize & Ground Nut Planter, Self-Propelled Rice Trans planter, different types of weeders, mist-blowers, Ultra low volume sprayers, Power sprayers for field crops, orchards and trees, Multi Crop Threshers, Self-propelled reaper binder, Combine Harvester, Fodder Harvester, Baler, Power operated Grain Cleaner, Dal Mill, Paddy Huller & Polisher, Maize Sheller, Grain Dryer, Potato Planter and Digger etc. Few different kinds of latest and appropriate farm machinery/equipment are shown below:

Table 2: List of machinery and equipment –

S. No	Type of machines/Equipment's available	Qty. (nos.)
1	Vehicles	05
2	Tractors	18
3	Power Tiller	06
4	Tractor cut-away working models of HMT 2511	01
5	Hydraulic demonstration model of Mahindra	01
6	Manual tools & implements	25
7	Bullock drawn implements & equipment	25
8	Tractor drawn implements, equipment & machinery	59
9	Self-propelled machinery	20
10	Cut model/ working models of engine, sub-assemblies of tractors, pumps, plant protection equipment etc.	50
11	Miscellaneous Equipment which includes Trailers, Generator set, Fork Lifter, etc.	25
12	Screw gauge (Mechanical)	05
13	Soil Moisture Meter (Digital)	01
14	Outside Calipers	01
15	Psychrometer	01
16	Angle Sensor	01
17	Brinell Microscope	01
18	Weighing Balance (Small, Medium, Large)	06
19	Tachometer Contact Type (Mechanical)	02
20	Geometry Box	01
21	Feeler Gauge	01
22	Compass Magnetic base	02
23	Spirit level	02
24	Stop watch	02
25	Torque Wrench	01
26	Paddy Combine	01
27	Solar Water Heating systems	03
28	LCD Projectors	02
29	Ultra-Short throw Projectors	02
30	Smart boards	02
31	Color Television	07
32	Computer systems	15
33	Laptops	03
34	Tab	02

II. Laboratory

The training section of this Institute is outfitted with following laboratories to impart the practical training to the trainees under various training programmes.

a) Laboratories already developed:

- i. Farm Power Lab.
- ii. Plant Protection Lab.
- iii. Farm Machinery Shed
- iv. Auto Electric Lab.
- v. Appropriate Farm Machinery Lab
- vi. Irrigation Lab and Demonstration Area.
- vii. Hi-tech Class Room

b) Laboratories under developing stage:

- i. Value addition and Post-Harvest Technology Lab
- ii. Gender friendly Equipment Lab
- iii. Digital Library
- iv. Computer Lab

III. Library

A Library with reasonable collections of 3224 including Text, Technical books and Reference Books, 3496 nos. Test Report, 415 nos. BIS Codes, 60 nos. Parts Catalogue, about 30 nos. Periodicals/ Journals and Newsletters on various Technical Fields and Mechanized farming and related subject, Magazine on English & Hindi Literatures besides 10 National, Regional and Local Newspapers (Daily) are being procured in the Institute Library for the use of Trainees and Employees. The Existing library is shifted from Testing Building to a new Library room attached to the Administrative wing on 01.01.2010, to give easy access and utilization of Library/information service for its users/readers.

IV. Audio-visual:

The Audio Visual section is operational with computer systems with Ultra short throw projectors, smart boards and power podiums and about 123 technical films in shape of VCDs and Cassettes, charts, paintings, posters etc. to supplement "On-the-job" training under different training programme. The institute is planning to upgrade the existing audio-visual hi-tech labs with latest technologies.

V. Lodging and Boarding facility

The Institute Hostel is set up with reasonable amenities to accommodate 80 male trainees at a time and a ladies hostel to accommodate the female trainees. The Institute have guest rooms with moderate facilities for the visitors has also been made in Hostel.



VI. Stipend and Traveling charges

As per SMAM, the trainees selected under User level courses are paid a stipend of ₹1000 per week. Besides this, the trainees selected under user level course are also paid “to and fro” traveling expenses by sleeper class of rail or by ordinary bus from their home-town to Biswanath Chariali at the end of training program after producing of original tickets.

2.4 Achievements:

Trainees trained:

During the year 2019-20, total 1018 trainees have been trained which, includes 495 women under various training program against the annual target of 1000. Total 16,590 trainees have been trained at this Institute since inception. Trainees trained course wise, state & land holding wise, category wise during the year 2019-20 & since inception (Year wise & state wise) are shown in table 3, 4 & 5 respectively and, they have been graphically represented below.



Table 3: Course wise/State wise trainees trained:

Course wise/State wise trainees trained															
Course	2019-20														
	U1	U2	U3	U5	U8	U11	U12(a)	TO	T1	T5	A1	NB	M6	App.	Total
Target	1000														
Assam	134	37	46	139	42	91	32	22	52	41	25	15	16	6	698
M.P.	0	0	0	0	0	0	0	0	0	0	46	0	0	0	46
M.S.	0	0	0	0	0	0	0	0	0	0	88	0	0	0	88
Ar.P.	0	0	0	0	0	0	0	0	0	0	0	12	0	0	12
U. P.	0	0	0	0	0	0	0	0	0	0	21	1	1	1	24
Odisha	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3
Gujarat	0	0	0	0	0	0	0	0	0	0	15	0	0	0	15
Bihar	0	0	0	0	0	0	0	0	0	0	17	1	0	1	19
Manipur	0	0	0	0	0	0	0	0	0	0	1	4	0	0	5
Mizoram	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rajasthan	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3
Tripura	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nagaland	0	0	0	0	0	0	0	0	0	0	19	5	2	0	26
Telengana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
West Bengal	0	0	0	0	0	0	0	0	0	0	6	1	2	0	9
Meghalaya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sikkim	0	0	0	41	0	0	0	0	0	0	0	0	0	0	41
Chattisgarh	0	0	0	0	0	0	0	0	0	0	25	0	0	0	25
Haryana	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4
Total	134	37	46	180	42	91	32	22	52	41	273	39	21	8	1018

Table 4: Trained under different Course according to size of land holder:

S. No.	Particulars	U							T			ALT	A	TO	NB	M	Trainees Under Training			Total
		U1	U2	U3	U5	U8	U11	U12 (a)	T1	T2	T5		A1				Deg.	Dip.	ITI	
1	Land-Less	13	01	04	08	01	03	03	03	00	02	00	53	01	21	00	00	00	00	113
2	Marginal	84	21	35	94	23	69	27	27	00	08	00	82	14	04	03	01	01	01	494
3	Small	24	08	07	69	07	16	02	15	00	27	00	72	07	05	08	00	00	04	271
4	Semi-Medium	10	03	00	07	01	02	00	05	00	04	00	36	00	05	09	00	00	00	82
5	Medium	03	03	00	02	10	01	00	02	00	00	00	24	00	04	01	00	00	01	51
6	Large	00	01	00	00	00	00	00	00	00	00	00	06	00	00	00	00	00	00	07
TOTAL		134	37	46	180	42	91	32	52	00	41	00	273	22	39	21	01	01	06	1018
7	Sponsored	00	00	00	00	00	00	00	52	00	41	00	273	00	39	21	00	00	00	426
8	Direct	134	37	46	180	42	91	32	0	00	00	00	0	22	00	0	01	01	06	592
TOTAL		134	37	46	180	42	91	32	52	00	41	00	273	22	39	21	01	01	06	1018
9	No. of women candidates trained	52	27	33	180	31	59	29	04	00	04	00	58	07	09	00	01	00	01	495

Table. 5 (a):Physical progress of trainees trained year wise & course wise since Inception up- to March, 2005

YEAR	Target	A	B	C	D	E	F	G	Appr. Trainee	TOTAL
1991-1992	0	0	0	0	0	0	0	28	0	28
1992-1993	50	37	0	0	0	0	17	130	0	184
1993-1994	100	60	0	0	0	0	0	106	0	166
1994-1995	100	45	0	0	2	0	61	16	1	125
1995-1996	150	43	0	0	0	8	22	82	1	156
1996-1997	200	55	4	0	6	6	57	79	2	209
1997-1998	250	56	0	0	0	31	24	124	1	236
1998-1999	250	93	4	10	5	3	41	126	0	282
1999-2000	250	76	4	27	0	102	0	87	2	298
2000-2001	250	62	0	7	12	89	31	113	3	317
2001-2002	250	58	0	10	13	250	21	55	1	408
2002-2003	250	68	0	40	34	0	300	112	0	554
2003-2004	250	5	0	0	30	0	288	162	4	489
2004-2005	600	0	0	0	22	0	309	280	0	611

Table- 5 (b): Trainees trained under re-structured training programs implemented from 1.4.2005

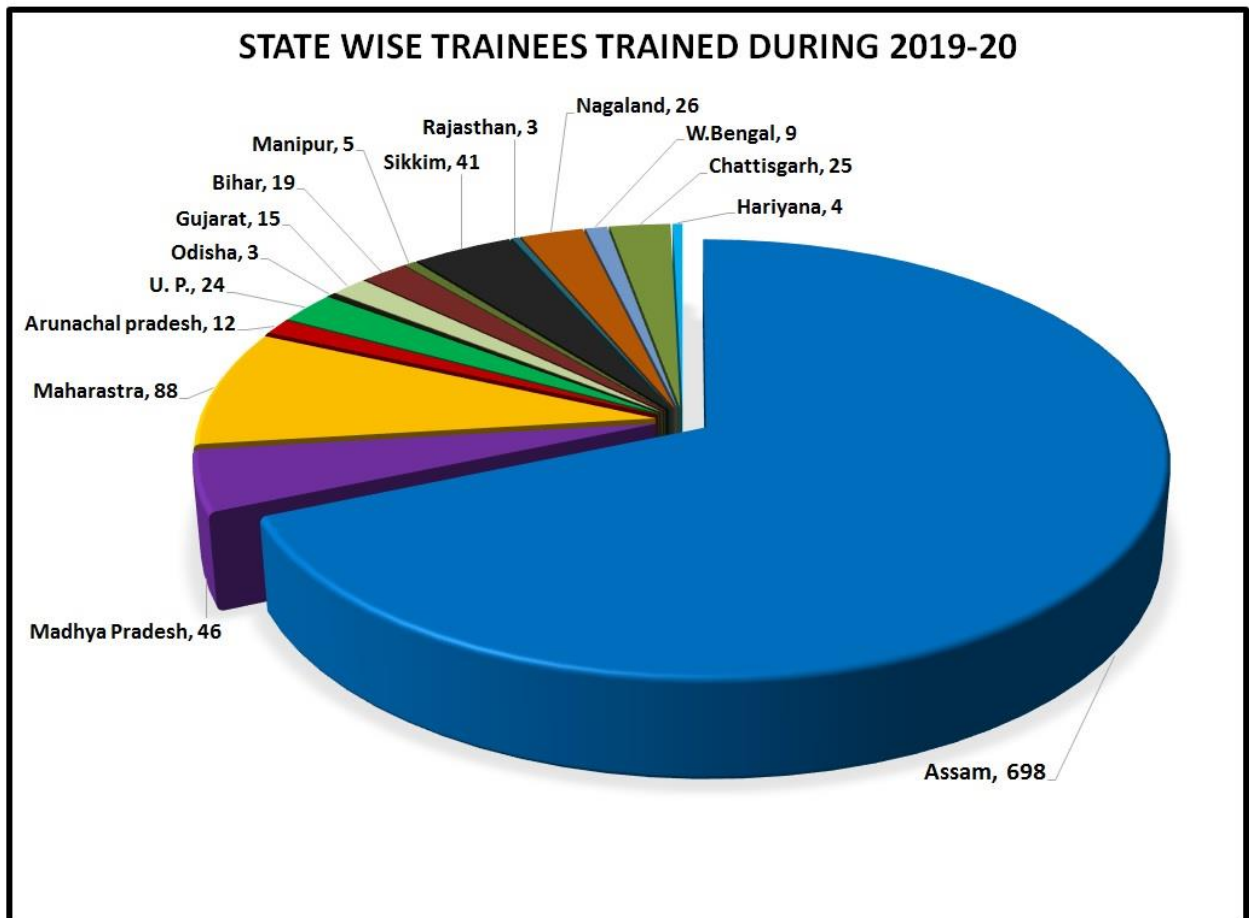
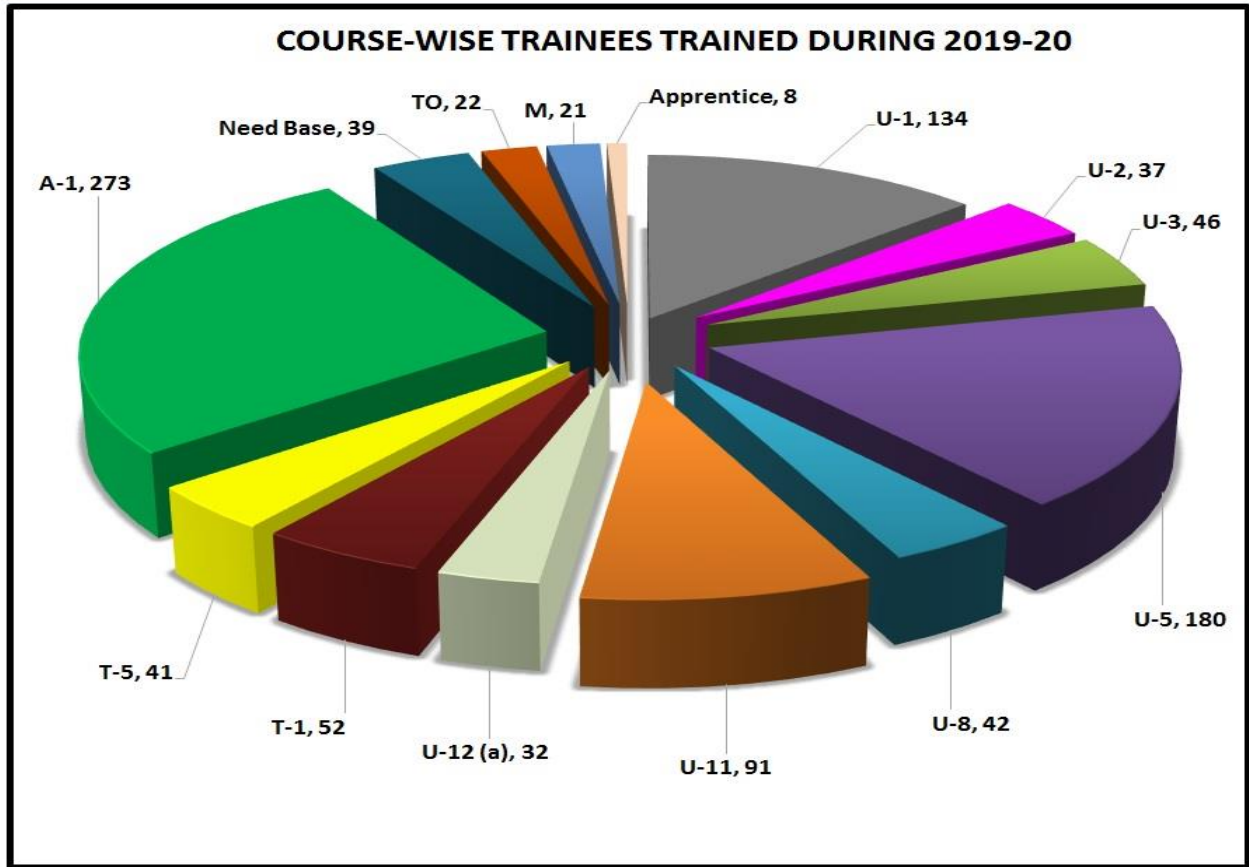
Year	Target	U Level course	T level course	M level course	A level course	AW level course	TT level course	SJGSY	NB level course	DF level course	TO	Appr.	Total
2005-06	600	155	0	0	25	0	349	113	0	0	0	3	645
2006-07	600	270	17	0	55	0	276	51	0	0	0	2	671
2007-08	700	155	58	0	123	11	320	67	0	0	0	1	735
2008-09	700	136	12	0	72	0	471	18	10	0	0	5	724
2009-10	700	296	36	0	114	0	92	0	133	0	0	1	672
2010-11	800	467	63	0	85	0	99	0	97	0	0	0	811
2011-12	800	357	171	0	167	0	0	0	119	0	0	2	816
2012-13	800	439	139	0	193	0	0	0	28	0	0	3	802
2013-14	800	267	196	0	204	0	0	0	159	0	0	3	829
2014-15	800	458	142	14	206	0	0	0	0	0	0	3	823
2015-16	800	602	39	8	205	0	0	0	76	0	0	4	934
2016-17	1000	451	186	0	304	0	0	0	59	0	22	5	1027
2017-18	1000	584	96	0	241	0	0	0	0	0	87	8	1016
2018-19	1000	503	96	0	327	0	0	0	27	0	48	3	1004
2019-20	1000	562	93	21	273	0	0	0	39	0	22	8	1018

2.5 Auditorium:

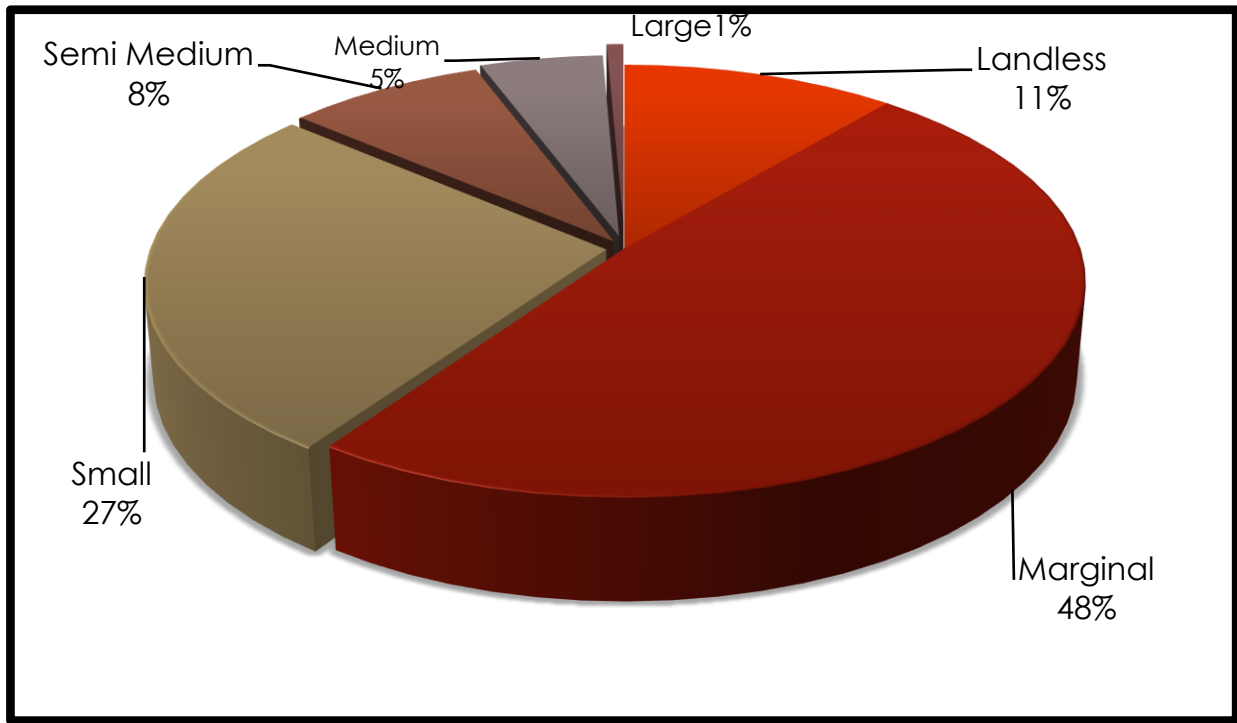
The Auditorium building has been renovated by constructing serial steps for sitting facilities with good quality chairs to accommodate around 200 viewers.

2.6 Demonstration, Exhibition and other activities:

This Institute organized the field camps at village level under SMAM scheme. Beside this, the Institute has participated in different exhibitions and farmers' fair organized by Govt. Departments, NGOs and other organizations. During the exhibition and camps, live demonstration of manual equipment, horticulture tools, weeding tools, Rotavator, Potato planter, Paddy Reaper, Sprayers and Dusters, etc. were arranged.

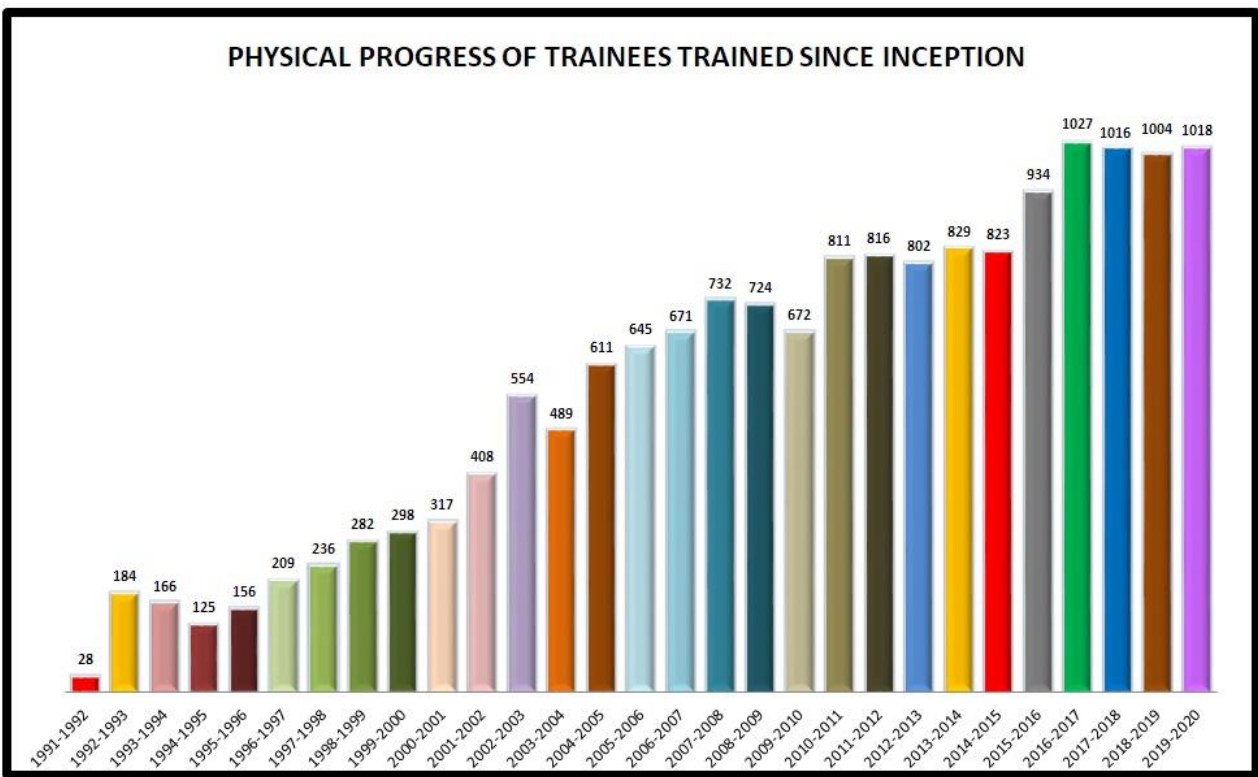


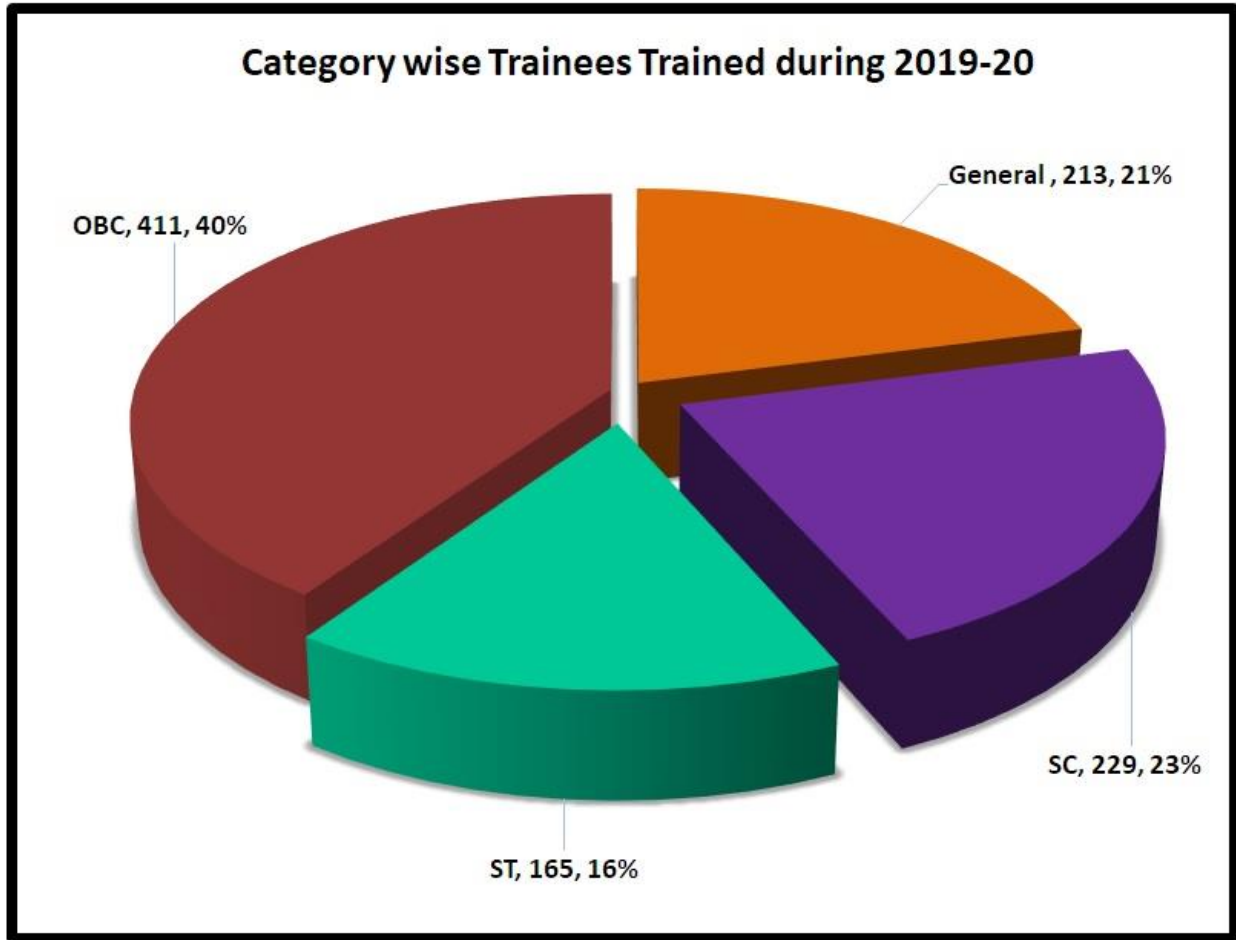
Land Wise Traines Trained in 2019-20



■ Landless ■ Marginal ■ Small ■ Semi Medium ■ Medium ■ Large

PHYSICAL PROGRESS OF TRAINEES TRAINED SINCE INCEPTION







DEMONSTRATIONS AT A GLANCE



DEMONSTRATIONS AT A GLANCE



PARTICIPATION IN MELA AT MAJULI



Engine Test Lab, Dyno. Setup

VISIT OF BHUTAN TECHNICAL DELEGATION



TESTING ACTIVITIES

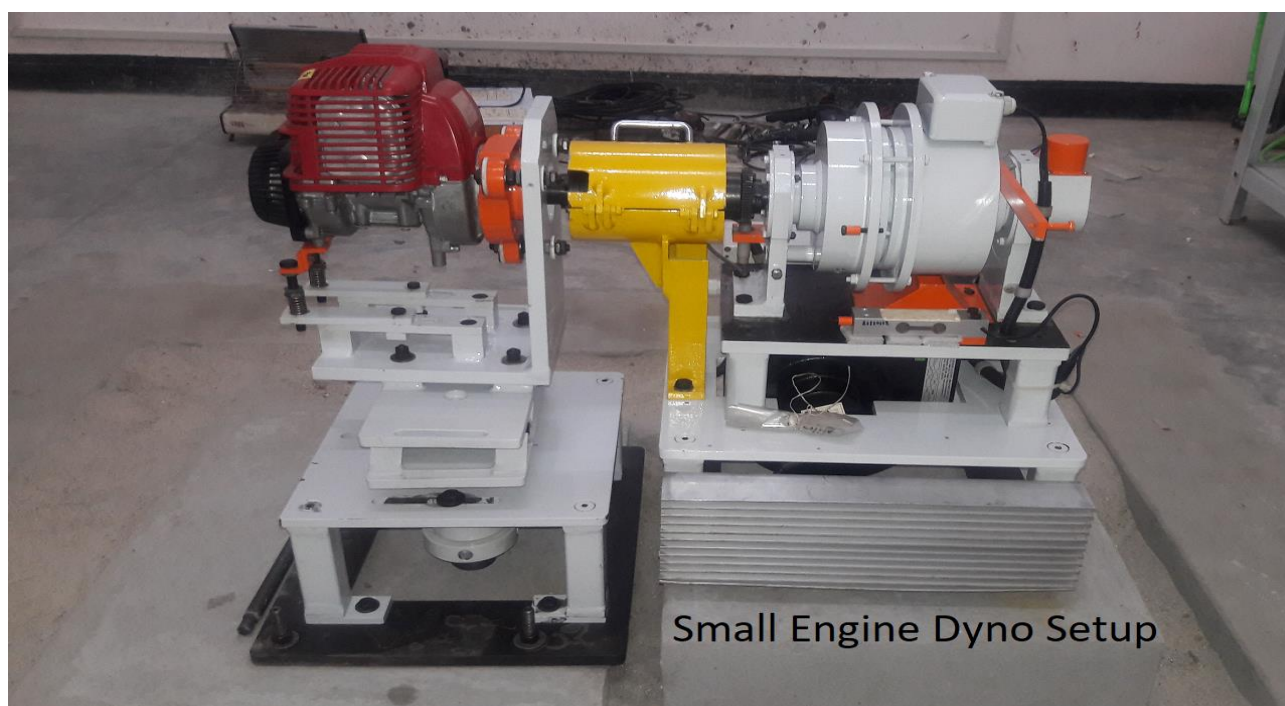


Table 6: Demonstration camps: As per the guidelines of SMAM, the Institute has arranged demonstration camps at different villages:

S. No.	Venue	Date	Machine Demonstrated
1	2	3	4
1	Dekorai H.S. School ,Sonitpur, Assam	11/05/2019	Power operated Brush cutter
2	Dekorai H.S. School ,Sonitpur Assam	11/05/2019	Potato Slicer
3	Dekorai H.S. School ,Sonitpur Assam	11/05/2019	Groundnut Decorticator
4	Dekorai H.S. School ,Sonitpur Assam	11/05/2019	Foot Sprayer
5	Dekorai H.S. School ,Sonitpur Assam	12/05/2019	Self-propelled Paddy Reaper
6	LikhakGaonPithakhuwa ,Sonitpur Assam	13/05/2019	Power operated Brush cutter
7	LikhakGaonPithakhuwa ,Sonitpur Assam	13/05/2019	BCS Power-Weeder with Rotary attachment
8	KamarSuburiPithakhuwa,Sonitpur, Assam	14/05/2019	BCS Power-Weeder with Rotary attachment
9	KamarSuburi,Pithakhuwa,Sonitpur Assam	14/05/2019	Potato Slicer
10	LikhakGaonPithakhuwa,Sonitpur, Assam	15/05/2019	Groundnut Decorticator
11	NICRA-Village, North-Lakhimpur Assam	24/07/2019	Rice- Transplanter (Power Operated)
12	NICRA-Village, NorthLakhimpur Assam	24/07/2019	Paddy Drum Seeder
13	Biswanth Wildlife Biswanth, Assam	06/08/2019	Shrub master
14	Dhubakota, Itakhola, Sonitpur, Assam	13/08/2019	Brush Cutter
15	Dhubakota, Itakhola, Sonitpur, Assam	13/08/2019	Battery Operated Sprayer
16	Dhubakota, Itakhola, Sonitpur, Assam	13/08/2019	Fertilizer Broad-Caster
17	Dhubakota, Itakhola, Sonitpur, Assam	13/08/2019	Fertilizer Broad-Caster & Brush Cutter
18	Hazarika-Chowk, Gohpur, Biswanath, Assam	19/08/2019	Fertilizer Broad-Caster
19	Hazarika-Chowk, Gohpur, Bisawnath, Assam	19/08/2019	Power-Operated Brush-Cutter
20	Gohpur, Biswanath, Assam	19/08/2019	Battery-Operated Sprayer

1	2	3	4
21	Den terongaon, Karbianglong, Assam	02/09/2019	Power-weeder, fertilizer broad-caster, cono-weeder
22	Samuk, Karbianglong, Assam	03/09/2019	Power-weeder, Brush-Cutter & Groundnut Decorticator
23	Den-terongaon, Karbianglong, Assam	03/09/2019	Maize Sheller, Reaper (Self-prop.), Brush cutter
24	Risorongpigaon, Karbianglong, Assam	04/09/2019	Fertilizer broad caster & Brush-cutter
25	Nagaiagaon, Parakhuwa, Karbianglong, Assam	05/09/2019	Fertilizer broad-caster & Reaper, (Self-Propelled)
26	Mechparagaon, Parokowa, Karbianglong, Assam	06/09/2019	Groundnut Decorticator, maize Sheller, brush Cutter and Fertilizer broad caster
27	Hamukjan, Karbianglong, Assam	06/09/2019	Fertilizer broad-caster & brush cutter
28	Kumalia, Biswanath, Assam	19/09/2019	Rotary-tiller
29	Pukia, Shilapather, Assam	01/10/2019	Self-propelled reaper
30	Science college, Shilapather, Assam	01/10/2019	Brush-cutter
31	Science college, Shilapather, Assam	01/10/2019	Fertilizer Broad caster
32	Science college, Shilapather, Assam	01/10/2019	Battery operated sprayer
33	Science college, Shilapather, Assam	01/10/2019	Cono-weeder & fertilizer Broad-caster
34	Shilapather College, Assam	01/10/2019	Self-propelled reaper
35	Shilapather College, Assam	01/10/2019	Fertilizer Broad caster
36	Silavali, Dhemaji, Assam	02/10/2019	Self-propelled reaper
37	Silavali, Dhemaji, Assam	02/10/2019	Fertilizer Broad caster & Cono-weeder
38	Miren, East Siang, Arunachal Pradesh	02/10/2019	Self-propelled reaper
39	Miren, East Siang, Arunachal Pradesh	02/10/2019	Brush-cutter
40	Pukia, Shilapather, Assam	02/10/2019	Cono-weeder
41	Sisiborgang, Shilapather, Assam	02/10/2019	Brush-cutter & Self-propelled reaper
42	Betanipam, Shilapather, Dhemaji, Assam	03/10/2019	Self-propelled reaper, Brush-cutter & Cono-weeder
43	Shilapather College, Assam	01/10/2019	Self-propelled reaper & Cono-weeder
44	Science college, Shilapather, Assam	01/10/2019	Cono-weeder & fertilizer Broad-caster
45	Science college, Shilapather, Assam	01/10/2019	Cono-weeder & Brush-cutter
46	Science college, Shilapather, Assam	01/10/2019	Self-propelled reaper
47	Science college, Shilapather, Assam	01/10/2019	Brush-cutter & Battery operated sprayer
48	Shilapather College, Assam	01/10/2019	Brush-cutter
49	Shilapather College, Assam	01/10/2019	Cono-weeder
50	Miren, East Siang, Arunachal Pradesh	02/10/2019	Cono-weeder & Brush-cutter
51	Miren, East Siang, Arunachal Pradesh	02/10/2019	Self-propelled reaper
52	Miren, East Siang, Arunachal Pradesh	02/10/2019	Fertilizer broad caster & Cono-weeder
53	Society Shilapather, Assam	03/10/2019	Cono-weeder
54	Society Shilapather, Assam	03/10/2019	Fertilizer broad caster & Brush-cutter
55	Kumalia, Biswanath Assam	14/10/2019	Duck foot cultivator
56	Namthang, Sikkim	05/11/2019	Manually operated seed-drill, Conoweeder, Paddy wedder, Wet & dryland weeder.

1	2	3	4
57	KVK, Namthang, Sikkim	06/11/2019	Brushcutter, Maize-sheller, Potato Slicer & groundnut decorticator
58	Village- Nagi Post- Namthang, Sikkim	07/11/2019	Power-weeder, Paddy-weeder, Fertilizer & Broadcaster & Brushcutter.
59	Lehugaon, Biswanath, Assam	25/11/2019	Power Reaper
60	Moralgaon, Biswanath, Assam	27/11/2019	Self-propelled Power reaper
61	Biswanath college, , Biswanath, Assam	27/11/2019	MB-plough
62	Borepukhura, Biswanath, Assam	29/11/2019	Rotavator
63	Jembau, silchar Assam	01/12/2019	Kamco power reaper
64	Jembau, silchar Assam	01/12/2019	Paddy thresher (foot-operated)
65	K.K.B.mising janajati, Majuli, Assam	04/12/2019	Paddy weeder
66	K.K.B.mising janajati, Majuli, Assam	04/12/2019	Fertilizer broadcaster
67	K.K.B.mising janajati, Majuli, Assam	04/12/2019	Brush-cutter
68	Khunachure gaon, Majuli, Assam	05/12/2019	Paddy thresher (foot-operated)
69	Boraguri, Majuli, Assam	05/12/2019	Paddy Weeder
70	Boraguri, Majuli, Assam	05/12/2019	Paddy Weeder
71	Ward no.3 Kumarbari, Majuli, Assam	05/12/2019	Brush-cutter
72	Kumarbari, Majuli, Assam	05/12/2019	Paddy-weeder & Paddy thresher
73	Bharuchuk, Majuli, Assam	05/12/2019	Paddy-weeder & Fertilizer Broadcaster
74	Bharuchuk, Majuli, Assam	05/12/2019	Brusher-cutter & Paddy-weeder
75	Bharuchuk, Majuli, Assam	05/12/2019	Fertilizer Broadcaster
76	KVK, Lakhimpur, Assam	07/12/2019	Paddy power reaper & Brush-cutter
	Jamuguri Bharalumukh, Assam	11/12/2019	Raeper cum Binder & paddy power reaper
77	Jamuguri Bharalumukh, Assam	11/12/2019	Brush-cutter
78	Komalia, Biswanath, Assam	07/01/2020	Rotavator
79	Panibharal, Biswanath, Assam	07/01/2020	Rotavator
80	Goliya, Biswanath, Assam	08/01/2020	Rotavator
81	Chalia caponi, Biswanath, Assam	09/01/2020	Rotavator
82	Kumalia, Biswanath, Assam	10/01/2020	Rotavator
83	Manoha village, Morigaon, Assam	20/01/2020	Knapsack sprayer & Battery operated sprayer
84	Manoha village, Morigaon, Assam	20/01/2020	Fertilizer Broadcaster.
85	Garehagi, Biswanath, Assam	21/01/2020	MB-Plough
86	KVK, Bongaigaon, Assam	04/02/2020	Paddy-reaper & Brush-cutter
87	KVK, Bongaigaon, Assam	04/02/2020	Brush-cutter & Fertilizer Broadcaster
88	KVK, Bongaigaon, Assam	04/02/2020	Cono-weeder & Paddy Thresher (foot-operated)
89	KVK, Bongaigaon, Assam	04/02/2020	Battery-operated & dry-land weeder
90	Manikpur, Bongaigaon, Assam	05/02/2020	Paddy-reaper & Brush-cutter
91	Manikpur, Bongaigaon, Assam	05/02/2020	Brush-cutter & Paddy-thresher (foot-operated)
92	Manikpur, Bongaigaon, Assam	05/02/2020	Dryland weeder & fertilizer Broadcaster.
93	Manikpur, Bongaigaon, Assam	05/02/2020	Battery-operated sprayer & fertilizer-broadcaster

1	2	3	4
94	Dhantula, Bongaigaon, Assam	05/02/2020	Paddy-reaper, Brush-cutter & Weeder
95	Dhantula, Bongaigaon, Assam	05/02/2020	Battery-operated sprayer & Paddy-thresher (foot-operated)
96	Banipara, bongaigaon, Assam	06/02/2020	Paddy-reaper & Brush-cutter
97	Banipara, bongaigaon, Assam	06/02/2020	Paddy-reaper & Brush-cutter
98	Jhalakhuta, Bongaigaon, Assam	06/02/2020	Paddy-reaper, paddy-thresher (Foot-operated) & weeder.
99	Banipara, bongaigaon, Assam	06/02/2020	Battery-operated sprayer & Fertilizer Broadcaster
100	Panibharal, kumalia, Biswanath, Assam	02/03/2020	Rotavator

3. TESTING:

The testing activity of the Institute started from the year 2001-02. At present, the Institute has mandate to test manual, animals, tractor & power tiller operated, Self-propelled Agricultural Equipment and Machinery as per guidelines of BIS.

3.1 Objectives of testing:

To testing of Agriculture Implements and other Agriculture Machinery manufactured within 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 best suited for Indian conditions which could be encouraged for import, production and popularization.
- Help the farmer and other prospective purchasers in determining the comparative performance of Machine available in market.
- Provide material to Engineers and Extension workers for guiding farmers in proper selection of equipment.
- Form the basis for standard specification to be used by the manufacturers.
- Help financial Institution in recommending financial assistance both to the manufacturers as well as to farmers.
- Provide feedback to the manufacturers through user's survey on the nature of field complaints and standard of pre and after sales service facilities provided by them.
- Assist Bureau of Indian Standard in formulation of standards and testing of Agriculture machines covered under the scope of certification marks scheme
- Help the manufacturers in product development by providing confidential Test Report.

3.2 Testing infrastructure:

The Institute is equipped with various ranges of Instruments, Apparatus to test the different types of Agricultural Machinery as per guidelines of BIS. The Engine Test Lab is equipped with two nos. of Eddy Current Dynamometers and Fuel Flow Meters to determine the engine performance. Besides this an A C Absorption type dynamometer is also installed for testing of small engines.

3.3 Type of tests:

Commercial

Commercial tests are conducted to assess the performance characteristics & evaluation of machines which are ready for commercial production.

Confidential

Confidential tests are to carry out for providing confidential information on the performance of machines which are ready for commercial or non-commercial production. It provides special data that may require by the manufacturer to improve the design.

Instrument details (Testing)		
S. No	Type of machines/Equipment's available	Qty. (Nos.)
01	Eddy Current Dynamometer	02
02	Electronics Weighing Machine	03
03	Load Cell with Digital Indicator	03
04	Load Cell with Dial Gauge	01
05	Vibration Meter with sensor	01
06	Digital Multi-meter	01
07	Tachometer	04
08	Hand Tachometer	01
09	Grain Moisture Meter	02
10	Sound Level Meter with Accessories	02
11	Micrometer	02
12	Soil Moisture Meter	01
13	Rapid Soil Moisture Meter	01
14	Cut off Machine (Cutter)	01
15	Outside Caliper	01
16	Vernier Caliper	02
17	Vane Anemometer	01
18	Cup Anemometer	01
19	Heart Rate Meter	01
20	Angle Sensor	01
21	Fuel Flow Meter	01
22	Hot Air Oven	01
23	Hardness Tester Machine	01
24	Rockwell cum Brinell Hardness Tester	01
25	Digital Telemetry System	01
26	Barometer	01
27	Bulk Density Apparatus	01
28	Cone Penetrometer	01
29	Psychrometer Hydrometer	01
30	Small hole gauge	01
31	Tyre Pressure Gauge	01
32	Thermometer	01
33	Feeler Gauge	01
34	Sprit Level	02
35	Stop Watch	02
36	Distance Measuring Instrument by Laser	01
37	Sieve Shaker	01
38	AC Absorption Type Dynamometer	01
39	DC Variable Power Supply	01

Table 7: Testing charges

The testing charges/fee are fixed by the Ministry vide O.M. 10-2/2002-My (I&P) dated 11th Nov., 2003 in respect of testing of agricultural machinery is given as under:

S. No.	Name of Machine	2019-20		2020-21	
		Test Fee (Rs)	GST @ 0%	Test Fee (Rs)	GST @ 0%
1	Components	14053	0	16161	0
2	Hand Tools	14053	0	16161	0
3	Power Operated Thresher, Decorticator, Sheller, Winnowing etc.	48832	0	56157	0
4	Animal Drawn Equipment	29961	0	34455	0
5	Tractor drawn /operated Imp./ Equipment	95460	0	109779	0
6	Manually Operated Equipment	27163	0	31237	0
7	Power Tiller driven /Self Propelled Reaper etc.	56161	0	64585	0
8	Tractor drawn/operated Seed-cum-Fertilizer Drill/Planter/Straw Reaper, Mini Rice Mill, Power Seed Cleaners/Grader	100148	0	115170	0
9	Animal Drawn Multi-tool Bar (Minimum Four attachments)	79535	0	91465	0
10	Self-Propelled Paddy Transplanter	136633	0	157128	0
11	Power Operated Multi Crop Thresher (Two or more crop)	102946	0	118388	0

**15% testing charges will be enhanced for each following financial year.

N.B.: (1) If any equipment, other than listed above, is received by the FMTTIs for test, the Testing fee for such machine shall be levied, by the Institute at the rate of 50% of the Direct revenue expenditure.

(2) The test fee shall be revised annually rather than revising the same after every three years. In this direction, the test fee should be enhanced by 15% over the test fee prevailing in the previous year. The revised test fee shall be applicable with effect from 1st day of every financial year. The new test fee may be made applicable on those machines, which have been admitted for test on the 1st day of every financial year and thereafter.

3.4 Achievement of testing

Total 30 machines were tested during the year 2019-20 which has raised the progressive total to 370 since 2001-02. The details of machine tested such as name of machines/implements, type of test, address of Manufacturers are given in table 8.

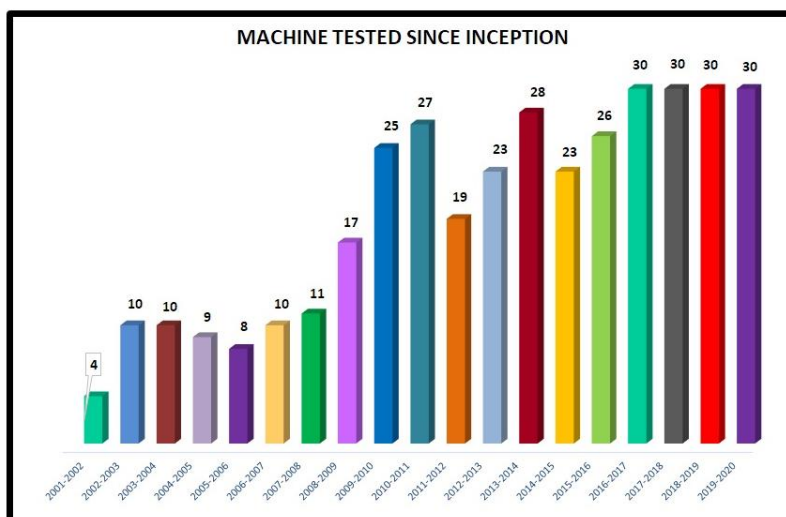


Table 8: Details of machine tested during 2019-20 under commercial test.

S. No.	Name of Machine/ implement	Test Report No.	Date of release	Address of Manufacturer/Applicant
1	2	3	4	5
1	Swaraj Square Baler	Machine 31/341	June, 2019	M/s. Mahindra Applitrac Mahindra & Mahindra Ltd. Research and development Centre, A-29, Phase-7, Industrial Area, SAS NAGR, Mohali, Punjab- 160055
2	Round Baler	Machine 32/342	August 2019	M/s Tirth Agro Technology Pvt. Ltd. "SHAKTIMAN" Survey No-108/1 Plot No-B.NH-27, Nr Bharudi Toll Plaza, Bhunava (Village), Taluka: Gondal, Dist: Rajkot, State: Gujarat INDIA-360 311
3	Agricultural rake	Imp. 264/343	August 2019	M/s Mahindra and Mahindra Ltd
4	Agricultural rake	Imp. 265/344	August 2019	M/s Mahindra and Mahindra Ltd.
5	Rotary Tiller (Rotavator)	Imp. 266/345	August 2019	M/s Tirth Agro Technology Pvt. Ltd. "SHAKTIMAN" Survey No-108/1 Plot No-B.NH-27, Nr Bharudi Toll Plaza, Bhunava (Village), Taluka: Gondal, Dist: Rajkot, State: Gujarat INDIA-360 311
6	Rotary Tiller (Rotavator)	Imp. 267/346	August 2019	
7	Rotary Tiller (Rotavator)	Imp. 268/347	Sept. 2019	
8	Rotary Tiller (Rotavator)	Imp. 269/348	Oct. 2019	
9	Rotary Tiller (Rotavator)	Imp. 270/349	Oct. 2019	
10	Rotary Tiller (Rotavator)	Imp. 271/350	Dec. 2019	
11	Rotary Tiller (Rotavator)	Imp. 272/351	Jan. 2020	M/s John Deere India Private Limited. Gat # 166-167 & 271-291, Off. Pune-Nagar Road, Sanaswadi, Pune-411208
12	Rotary Tiller (Rotavator)	Imp. 273/352	Jan. 2020	
13	Rotary Tiller (Rotavator)	Imp. 274/353	Jan. 2020	
14	Rotary Tiller (Rotavator)	Imp. 275/354	Feb. 2020	

1	2	3	4	5
15	Rotary Tiller (Rotavator)	Imp. 276/355	Feb. 2020	M/S Escorts Limited, Agri Machinery Group(KMC) 15/5, Mathura Road, Faridabad, Pin code – 121003
16	Rotary Tiller (Rotavator)	Imp. 277/356	Feb. 2020	
17	Rotary Tiller (Rotavator)	Imp. 278/357	Feb. 2020	
18	Rotary Tiller (Rotavator)	Imp. 279/358	Feb. 2020	
19	Rotary Tiller (Rotavator)	Imp. 280/359	Feb. 2020	
20	Rotary Tiller (Rotavator)	Imp. 281/360	Feb. 2020	
21	Rotary Tiller (Rotavator)	Imp. 282/361	Feb. 2020	
22	Rotary Tiller (Rotavator)	Imp. 283/362	Feb. 2020	M/s John Deere India Private Limited. Gat # 166-167 & 271-291, Off. Pune-Nagar Road, Sanaswadi, Pune-411208
23	Rotary Tiller (Rotavator)	Imp. 284/364	March, 2020	M/s TIRTH AGRO TECHNOLOGY PVT. LTD.
24	Rotary Tiller (Rotavator)	Imp. 285/365	March, 2020	"SHAKTIMAN" Survey No- 108/1 Plot No-B.NH-27, Nr BharudiTollPlaza Bhunava(Village), Taluka: Gondal, Dist: Rajkot, State: Gujarat INDIA-360 311
25	Rotary Tiller (Rotavator)	Imp. 286/366	March, 2020	
26	Paddy thresher	Th. 06/363	March 2020	M/S. Shukla Industries Near Radha Swami Satsang, Old G.T.Road, P.O + Ps: Sasaram, Dist : Rohtas, Bihar-821115
27	Mulcher	Imp. 287/367	March 2020	M/s New Swan Multitech Ltd. Village: Raian, P.O.Heeran, Kohara Machiwara Road, Ludhiana (Punjab)-141112
28	Mulcher	Imp. 288/368	March 2020	
29	Rotary Tiller (Rotavator)	Imp. 289/369	March 2020	M/s. Maschio Gaspardo India Pvt. Ltd. Plot No.F27, MIDC, Ranjangaon, Village:Karegaon Tal: Shirur, Dist:Pune-412220
30	Round Baler	Machine 33/370	March 2020	M/s Tirth Agro Technology Pvt. Ltd. "SHAKTIMAN" Survey No-108/1 Plot No- B.NH-27, Nr Bharudi Toll Plaza, Bhunava (Village), Taluka: Gondal, Dist:Rajkot, State:Gujarat INDIA-360 311

Table 9: Year-wise and category-wise machine tested during 2006-2020

Year	Category wise Machine and No. of Machine Tested							Total
	Seedbed Preparation	Sowing & Planting	Inter Cultivator	Plant Protection	Harvesting & Threshing	Residue Management	Post-Harvest	
2006-07	3	1	6	0	0	0	0	10
2007-08	6	4	0	0	1	0	0	11
2008-09	8	0	1	0	7	0	1	17
2009-10	19	3	1	0	2	0	0	25
2010-11	17	4	2	1	2	0	1	27
2011-12	11	2	5	0	0	1	0	19
2012-13	19	2	2	0	0	0	0	23
2013-14	16	2	1	0	8	1	0	28
2014-15	16	3	1	0	2	0	1	23
2015-16	12	1	2	0	5	0	6	26
2016-17	19	1	0	0	8	0	2	30
2017-18	28	1	0	0	0	0	1	30
2018-19	27	0	1	0	0	1	1	30
2019-20	22	0	0	0	1	7	0	30
Total	223	24	22	1	36	10	13	329

4. FARM ACTIVITIES:

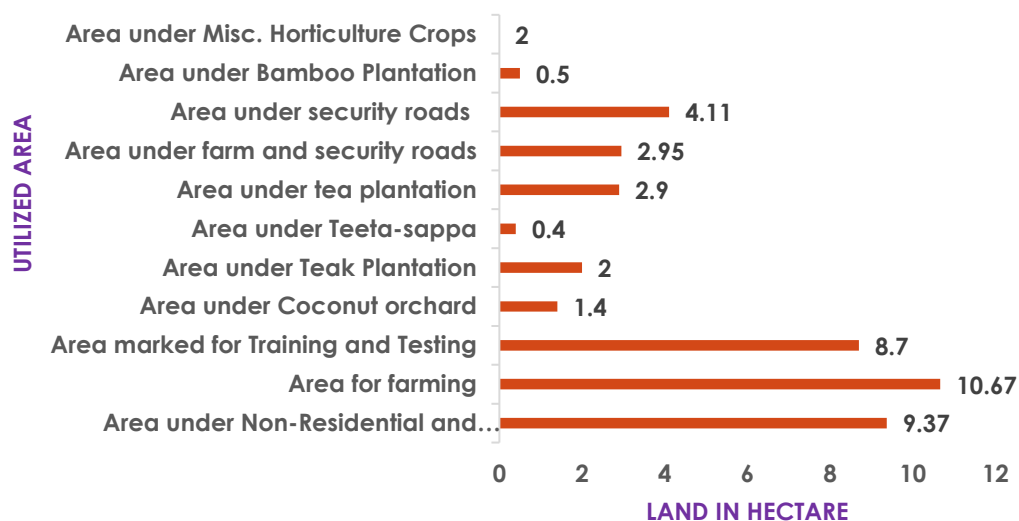
Table 10: The Institute is in possession of 45 ha land and break-up of utilization of land is as below:

(i)	Area under Non-Residential and Residential Buildings	:	9.37 ha
(ii)	Area for farming	:	10.67 ha
(iii)	Area marked for Training and Testing(for different field operation& practices)	:	8.70 ha
(iv)	Area under Coconut orchard	:	1.40 ha
(v)	Area under Teak Plantation	:	2.00 ha
(vi)	Area under Teeta-sappa	:	0.40 ha
(vi)	Area under tea plantation	:	2.90 ha
(vii)	Area under farm and security roads	:	2.95 ha
(viii)	Area under security roads (Parallel to the boundary wall)	:	4.11 ha
(ix)	Area under Bamboo Plantation	:	0.50 ha
(x)	Area under Misc. Horticulture Crops	:	2.0 ha

4.1 Plantation

To show the live demonstration of the micro systems and its impacts on the Tea and fruit crops as well to have a regular flow of revenue, the Institute has completed the plantation of tea, coconut and arecanut. The coconut has been planted in pockets of land, where-as, arecanut has been planted as a mixed plantation with tita-sopa along the both sides of all farm roads. The Tea plantation has been increased to get even better farm revenue. This Institute has also planted forest trees like teak and tita-sopa (champa) and other plants like Neem, Gulmohor, Nahar, Silver oak, Kadam etc. The progress of such horticulture plantation is as under:

Utilization of Land in Hectare



4.2 Plantation of trees

Table 11: Details of trees planted

S.No.	Name of the plant	Botanical name	Progressive Total	Remarks
1	2	3	4	5
1	Titasapa plants	<i>Michelia champaca</i>	1336	Planted in both side of the farm and farm security roads.
2	Teak plants	<i>Tectona grandis</i>	1172	Planted behind the Testing building & around the pond near the main water tank and land behind security barrack.
3	Sissoo (Indian rosewood)	<i>Dalbergia sissoo</i>	28	Planted adjacent to the eastern side of the Institute's boundary wall.
4	Gomari/ Gamhar	<i>Gmelina arborea</i>	29	Planted at residential colony and at northern side parallel to the boundary wall.
5	Arecanut	<i>Areca catechu</i>	268	Planted along the line with titasapa plants in an alternate pattern in the both sides of the farm roads.
6	Siris	<i>Albizia lebbek</i>	74	Planted in the tea garden as shade tree and nearby training building.
7	Gulmohar	<i>Delonix regia</i>	44	Planted nearby Training and Testing building and along the both sides of main road.
8	Silver oak	<i>Grevillea robusta</i>	7	Nearby admn. building and in front of Trainee's hostel.
9	Ghoraneem	<i>Melia azedarach</i>	44	Planted in the tea garden as a shade tree and in the residential colony.
10	Cinnamon	<i>Cinnamomum verum</i>	11	Planted in the residential colony.

1	2	3	4	5
11	Ashokapendula	<i>Polyalthia longifolia</i>	87	Planted around the administrative building, Type-V quarter and Training building. Newly planted in front of Type-II residential quarter.
12	Agaru	<i>Aquilaria agallocha</i>	5	Planted in front of Trainee's hostel and in the residential colony.
13	Nahar/ Iron wood	<i>Mesua ferrea</i>	6	Planted both sides of the office main road.
14	Sonaru	<i>Cassia fistula</i>	5	Planted around the training building.
15	Arjun	<i>Terminalia arjuna</i>	1	Planted in the South-West corner of the Institute nearby the new Tea garden.
16	Pine tree	<i>Pinus sabiniana</i>	4	Planted in front of Type-V quarter and Training building.
17	Neem	<i>Azadirachta indica</i>	26	Planted nearby Trainees hostel and in the residential colony.
18	Kadam	<i>Neolamarekia cadamba</i>	42	Planted both sides of the office main road.
19	Sapota	<i>Manilkara zapota</i>	51	Planted in the Institute's orchard at the eastern side.
20	Litchi	<i>Litchi chinensis</i>	160	Planted in the Institute's orchard at the eastern side.
21	Coconut	<i>Cocos nucifera</i>	272	Planted in between testing and administrative building. Another plantation is nearby the Girl's hostel and eastern side of the playground.
22	Jack fruit	<i>Artocarpus heterophyllus</i>	9	Planted at residential colony.
23	Mango	<i>Mangifera indica</i>	16	Planted at residential colony and behind the farm power lab.
24	Bottle palm	<i>Hyophorbe lagenicaulis</i>	35	Planted both sides of the colony road and in front of the trainee's hostel.
25	Assam lemon/ Khasi mandarin	<i>Citrus limon(L.)</i>	36	Planted in the eastern side of the Institute along with litchi and sapota orchard and in front of trainee's hostel parallel to the coconut plantation.
26	Bhomora	<i>Terminalia bellirica</i>	10	Planted in the south-west corner of the Institute parallel to the boundary wall.
27	Cashew nut	<i>Anacardium occidentale</i>	50	Planted in the eastern side of the boundary wall along with litchi and sapota orchard.
28	Bamboo	<i>Bambusa vulgaris</i>	78 clumps	Planted at north-eastern part parallel to the boundary wall.



Farm Crop



Threshing Flour

5. ADMINISTRATION AND PERSONNEL MANAGEMENT:

Table 12: The total strength of employees of the Institute is 44 Nos. comprising of the following:

Name of the post	Name of the incumbent	Sanction strength	Present status		Remarks
			Filled	vacant	
1	2	3	4	5	6
Group A					
Director	K.K. Nagle	1	1	--	--
Sr. Agril. Engineer	J.P. Mandal	1	1	--	--
Group B (Gaz.)					
Agricultural Engineer	S.G. Pawar	1	1	--	---
	M.R. Patil	1	1	--	---
Administrative Officer	Vacant	1	--	1	Filling of the post under process
Farm Superintendent	Vacant	1	--	1	Filling of the post under process
Group B (NG)					
Office Superintendent	Mukti Parajuli	1	1	--	---
Sr. Tech. Assistant (I)	Ashish Patel	1	1	--	---
Sr. Technical Assistant	Khagendra Bora, Morey Bhushan Vinod	4	2	2	Filling of the post under process
Library & Information Assistant	Vacant	1	--	1	Filling of the post under process
Group C					
Accountant	P.B. Biswakarma	2	1	1	Filling of the post under process
UDC	Sunil Kumar	1	1	--	---
Steno Grade-II	Praphul Kumar	1	1	--	---
Senior Hindi Typist	Viveka Nand Shukla	1	1	--	---
LDC	B. Upadhyaya	2	2	--	---
	Hemanta Das				
Technical Assistant	Pankaj Sethi	4	2	2	Filling of the post under process
	D. Ramesh				

1	2	3	4	5	6
Senior Technician	P.C. Hazarika	7	7	--	---
	Ananda Das				
	Bhaskarjit Nath				
	Haradhan Bawri				
	R. R. Saikia				
	Govind Vishwakarma				
	Satish Kumar Verma				
Agricultural Assistant Technician	D.K. Nath	1	1	--	--
MTS (Technical)	Kailash Chetia	3	1	2	Filling of the post under process
MTS	Sushil Koch	2	1	1	Filling of the post under process
MTS	Rupeswar Sut	7	7	--	---
	P. K. Balmiki				
	Ranjan Kumar Das				
	Karuna Basumatary				
	Lakhyanath Giri				
	Nagen Bhuyan				
	Nanki Basfor				
Total		44	33	11	---

5.1 Transfer/ Posting/ Recruitment, 2019-20

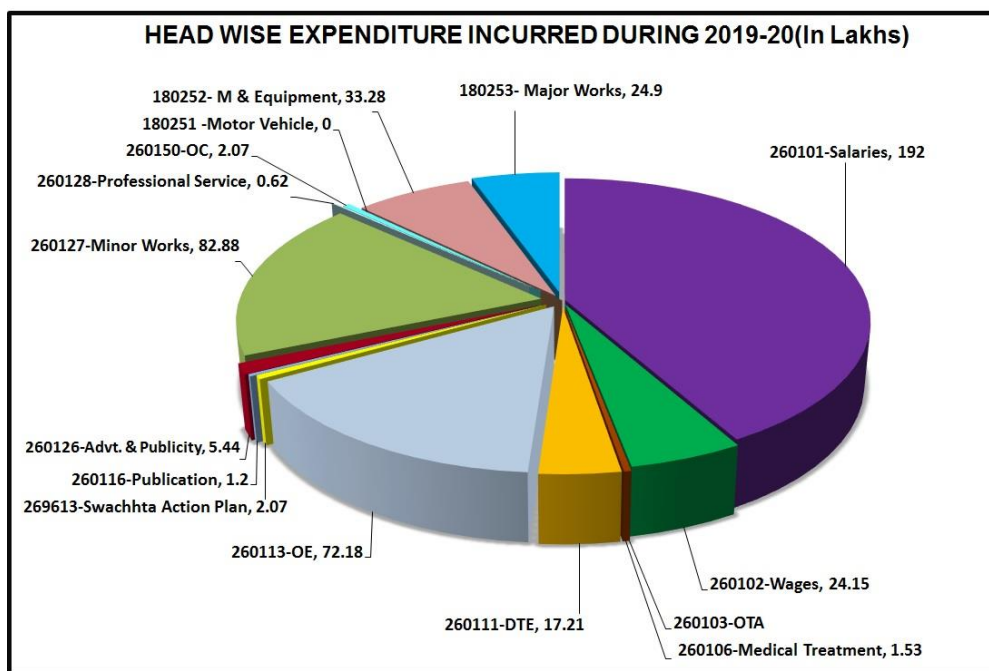
Table 13: The following officers and staff have been transferred/ posted/ recruited in different cadre which is shown in the table.

Name of Officer/ staff	Group	Transfer/ posting
J.P. Mandal, AE	A	Promoted to Senior Agricultural Engineer at NERFMTTI, Assam
M.R. Patil, AE	B	Transfer from CFMTTI, Budni to NERFMTTI, Assam
Morey Bhushan Vinod	B (NG)	New Appointment as STA at NERFMTTI, Assam
D. Vasuki Krishna	C	Promoted & Transfer from SRFMTTI, Anantapur to NERFMTTI, Assam as Accountant. Again promoted as Office Supt. and transfer to SRFMTTI, Anantapur.
Pankaj Sethi		New Appointment as TA at NERFMTTI, Assam
D. Ramesh		New Appointment as TA at NERFMTTI, Assam
Govind Vishwakarma		New Appointment as Senior Technician at NERFMTTI, Assam
Satish Kumar Verma		New Appointment as Senior Technician at NERFMTTI, Assam
Viveka Nand Shukla		New Appointment as Senior Hindi Typist at NERFMTTI, Assam

5.2 Visit of Dignitaries:

S. No.	Name & Address	Comments
1.	Dr. Kanwar Singh, Resident Consultant, IRRI Mob. 9720388988	Very nice facility
2.	Dr. Suryankanta Khandai, Senior specialist IRRI 9438652725	Excellent support
3.	Motoki Izukura, Kubota	Very nice warm facility
4.	Ashok Kumar Singh, Kubota India Pvt. Ltd.	Excellent Institute
5.	Sangay Lhendup, Agril. Machinery Center, Bonday, Paro, Bhutan, Mob. +97517609874	Excellent Institute
6.	Chetem Wangchen, Agril. Machinery Center, Bonday, Paro, Bhutan, Mob. +97517634192	Exceptionally organized Center.
7.	Ugyen Dorji, Agril. Machinery Center, Bonday, Paro, Bhutan, Mob. +97517426302	Good hospitality & well arranged
8.	Jigme, Agril. Machinery Center, Bonday, Paro, Bhutan Mob. +97517426302	Good hospitality & well arranged
9.	Wangali, Agril. Machinery Center, Bonday, Paro, Bhutan Mob. +97517983976	Good hospitality & well arranged





5.3 Financial performance: 2019-20 (Allocated by the Administrative Ministry)

MH- 2401 -26 – Green Revolution – Krishonnati Yojna, 01 SMAM

Table 14: Financial performance

Amount in Rupees

Head	B.E. (in lakh)	R.E. (in lakh)	Progressive total of expenditure
260101-Salaries	246.00	196.00	192.07
260102-Wages	25.00	25.00	24.15
260103-OTA	0.22	0.08	0.00
260106-Medical Treatment	5.00	2.00	1.53
260111-DTE	12.00	18.00	17.21
260113-OE	91.00	75.00	72.18
269613-Swachhta Action Plan	2.50	2.50	2.07
260116-Publication	3.00	1.22	1.20
260126-Advt. & Publicity	5.00	5.50	5.44
260127-Minor Works	213.00	110.46	82.88
260128-Professional Service	2.00	1.00	0.62
260150-OC	25.00	22.00	20.70
TOTAL	629.72	458.76	420.05
Major Head -"4401" - Capital Outlay on Crop Husbandry, 18, Green Revolution – Krishonnati Yojna, 02 SMAM			
180251 -Motor Vehicle	0.00	0.00	0.00
180252- M & Equip.	30.00	35.00	33.28
180253- Major Works	200.00	70.00	24.90
TOTAL	230.00	105.00	58.18

5.4 Activity-wise revenue earned during 2019-20

Table 15: Revenue earned by different sections

S. No.	Item	Revenue Earned
1	Training	714700.00
2	Testing	2632221.00
3	Farm Orchard	35425.00
4	Farm Misc.	45720.00
5	Farm Produce	39944.00
6	Any other misc. (Office)	53110.00
7	Auction/Disposal	290000.00
TOTAL		3811120.00

6. हिंदी अनुभाग-

यह संस्थान देश के उत्तर-पूर्वी क्षेत्र में स्थित है जो राजभाषा मानदंड के समूह "ग" में आता है, ज्यादातर कार्यालयीन कामकाज अंग्रेजी में होता है। वर्तमान में सभी अधिकारियों और कर्मचारियों ने धीरे-धीरे कार्यालय का कामकाज हिंदी में करना प्रारंभ किया है। हिंदी पत्राचार की प्रतिशतता में पिछले कुछ समय से सुधार हुआ है जिसका माध्यम मौखिक निर्देश, कार्यशालाओं और समारोह आदि हैं और इन आयोजनों ने ही अहिंदी भाषी कर्मचारियों की भी आगे आकर हिंदी अपनाने को प्रोत्साहित किया है।

(i) धारा 3(3) 1963 के तहत जारी दस्तावेज - 165

(ii) वर्ष 2019-20 के अंतर्गत पत्राचार का विवरण -

क्षेत्र	हिंदी में	अंग्रेजी में	भेजे गये कुल पत्रों में हिंदी पत्रों का प्रतिशत
A	179	539	33.20
B	130	259	50.19
C	305	1142	26.70

तदनुसार, हम राजभाषा की सभी आवश्यकताओं का पूरा कर सकते हैं, और कार्यान्वयन समिति निकट भविष्य में हिंदी पत्राचार के लक्ष्य को प्राप्त करने के लिए उपयुक्त और प्रभावी कारवाई कर रही है। संस्थान ने 13 सितम्बर, 2019 से 27 सितम्बर, 2019 तक हिंदी पखवाड़ा का आयोजन किया जिसमें सभी अधिकारी, कर्मचारी और उनके परिवारजनों ने इस दौरान राजभाषा हिंदी के प्रचार-प्रसार बढ़ाने हेतु आयोजित की गयी प्रतियोगिताओं में हिस्सा लिया और राजभाषा हिंदी के प्रति जागरूकता हेतु संस्थान द्वारा प्रोत्साहन पुरस्कार भी दिये गये। इसके अतिरिक्त संस्थान में सभी प्रकार के बैनर, सूचना इत्यादि मुख्यतः राजभाषा हिंदी में ही जारी की गयी है। और इसी वर्ष के दौरान राजभाषा हिंदी को सुलभ और सुचारू रूप से बोलने लिखने के लिए संस्थान ने पुस्तकालय के लिए ₹ 1350.00 की पुस्तकों की खरीददारी की गयी है।





हिंदी दिवस एवं पखवाड़ा उत्सव की कुछ झलक
