Director Sir Shri Ram College, Muzaffarnagar

Sub: Letter for Permission to Conduct the a Certificate Course on Vermicompost Processing

Respected Sir,

I am writing this letter to request permission to conduct the One Month "Certificate Course on Vermicompost Processing" by Department of Agriculture, on the date 01.08.2019-31.08.2019 in the Campus.

I believe small steps will be useful for Agriculture students and this is one of them.

Thank you

Date: 10/07/2019

Faculty of Agriculture SRC, Muzaffarnagar

Sir, Permission may be granted

Co-ordinator IQAC, Shri Ram College,

Muzaffarnagar

Allowed

Muzaffarnagar



DEPARTMENT OF AGRICULTURE, SHRI RAM COLLEGE, MUZAFFARNAGAR

Notice

All the students of Agriculture Department are informed that what will be conduct a Certificate Course for one month on the "Vermicompost Processing" by the Department of Agriculture. Students who want to participate in the program should come and register their names in the Agriculture Department, SRC. Certificate will be providing to successful candidates in the certificate course.

Date: 01.08.2019 to 31.08.2019

Time: 03:00 PM to 5:00 PM

Venue: Department of Agriculture and SRC Campus

Date: 20/07/2019

HOD Department of Agr

Department of Agriculture Shri Ram College, Muzaffarnagar

Co-ordinator IQAC, Shri Ram College, Muzalfarnagar

Shri Ram College Muzaffarnagar

Department of Agricultural Shri Ram College, Muzaffarnagar

Certificate Course on Vermicompost Processing

Title of the Course: Certificate Course in Vermicompost Processing

Duration:

Eligibility: B. Sc. Agriculture

Proposed Course Structure: Course work is distributed in two part theory and practical.

Sr.No.	Code	Title of the paper	Credit pattern in L:T:P
1	VP - 01	Vermicompost Processing	3:0:0
2	VP - 02	Vermicompost Processing related to theory (VP = 01)	0:0:1

Theory Course VP -01

	Unit-I General Vermiculture/ Vermicompost	8 Hrs
1	Introduction to vermiculture, definition, meaning, history, economic important, their value in maintenance of soil structure, role as four r's of recycling reduce, reuse, recycle, restore.	
2	His role in bio transformation of the residues generated by human activity and production of organic fertilizers. How does nature works.	
3	The matter and humus cycle (product, qualities). Ground population, transformation process in organic matter.	
4	Choosing the right worm. Useful species of earthworms. Local species of earthworms. Exotic species of earthworms. Complementary activities of autoevaluation.	
	Unit-II Earthworm Biology and Rearing	8 Hrs
5	Key to identify the species of earthworms.	
6	Biology of Eiseniafetida. a) Taxonomy Anatomy, physiology and reproduction of Lumbricidae. b) Vital cycle of Eiseniafetida: alimentation, fecundity, annual reproducer potential and limit factors (gases, diet, humidity, temperature, PH, light, and climatic factors). Complementary activities of auto evaluation.	
7	Biology of Eudriluscugeniae. c) Taxonomy Anatomy, physiology and reproduction of Eudrilidae. d) Vital cycle of Eudriluscugeniae: alimentation, fecundity, annual reproducer potential and limit factors (gases, diet, humidity, temperature, PH, light, and climatic factors). Complementary activities of auto evaluation.	
	Unit-HI Vermicompost Processing (Methods and Products)	8 Hrs

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7	Small Scale Earthworm farming for home gardens - Earthworm compost for home gardens	
8	Conventional commercial composting - Earthworm Composting larger scale	
9	Earthworm Farming (Vermiculture), Extraction (harvest), vermicomposting harvest and processing.	
10	Nutritional Composition of Vermicompost for plants, comparison with other fertilizers	
11	Vermiwash collection, composition &use	
12	Enemies of Earthworms, Sickness and worm's enemies. Frequent problems. How to prevent and fix them. Complementary activities of auto evaluation.	
	Unit-IV Applied vermiculture	8 Hrs
13	 a) The working group experience with E. fetida populations comportment with farm industrial residues (frigorific, cow places, feed-lot, aviaries exploitations, and solid urban residues). b) Lineaments to vermicomposting elaboration projects. 	100
14	c) Considerations about economical aspects of this activity. Research and ratability according to different exploitation orientations (worm's meat production, worm's humas production, or integrated projects). Toxins released by the worms (harmful effects) Complementary activities of auto evaluation.	7

Practical Course - VP- 02

-/	Unit-V	18Hrs
1	Key to identify different types of carthworms	1
2	Field trip- Collection of native earthworms & their identification	
3	Study of Sytematic position, habits, habitat & External characters of Eisenia fetida	
4	Study of Life stages & development of Eiseniafetida	
5	Study of Life stages & development of Eudriluseugeniae	
6	Comparison of morphology & life stages of Eiseniafetida&Eudriluseugeniae	
7	Study of Vermiculture, Vermiwash&Vermicompost equipments, devices	
8	Preparation vermibeds, maintenance of vermicompost& climatic conditions.	
9	Harvesting, packaging, transport and storage of Vermicompost and separation	
	of life stages	
10	Study of verms diseases & enemies	
H	Study the effects of vermicompost&vermiwash on any two short duration crop plants	
12	Study the effects of sewage water on development of worms	

Total periods of Theory are thirty two hrs which are of eight hrs per unit for four units and eighteen hrs for practical. The whole course is covered in fifty hours. Time table will be distributed after the registrations are over.

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Department of Agriculture Candidate List Programme on Vermicompost Processing

SR	Roll No	Candidate Name	Father Name
1.	180225126012	AMAN KUMAR	SURESH PAL
2.	180225126013	AMIT	RAJ KUMAR
3.	180225126014	ANIKET KUMAR	DUSHYANT KUMAR
4.	180225126015	ANKIT KUMAR	VEDPAL
5.	180225126016	ANKUR DHIMAN	PRAMOD KUMAR DHIMAN
6.	180225126018	ANMOL SAINI	RAJESH SAINI
7.	180225126019	ANOOP SINGH	SAT KUMAR SINGH
8.	180225126115	ANUJ KUMAR	JITENDRA SINGH
9.	180225126022	ANURAG	KAUSHAL KISHOR
10.	180225126024	ARPIT SHARMA	SURESH SHARMA
11.	180225126025	ARUN	BHANWAR SINGH
12.	180225126029	ARUN SAINI	GORDHAN SAINI
13.	120225126027	ARUN KUMAR	NAHAR SINGH
14.	180225126033	BHANU PRATAP SINGH	KULDEEP SINGH
15.	180225126038	DHRUV DHARIWAL	AJAY DHARIWAL
16.	180225126039	DIVYANSHU BALIYAN	SANASPAL BALIYAN
17.	180225126043	GUL MOHMMAD	ASLAM NADEEM
18.	180225126046	HIMANSHU	SATBEER SINGH
19.	180225126048	KARTIK	NAVEEN TYAGI
20.	180225126052	MANUSHANKAR	SANJEEV KUMAR
21.	180225126056	MOHIT MAURYA	BABU RAM
22.	180225126057	MOHIT SAINI	SUNDER SAINI
23.	180225126055	MOHIT KUMAR	BABU RAM
24.	180225126058	MUNEER	MAROOF
25.	180225126060	NAVEEN	YOGENDRA SINGH
26.	180225126061	NIKHIL KUMAR	RAKESH KUMAR

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27.	180225126063	NITIN KUMAR	MAGAN SINGH
28.	180225126064	PRASHANT RANA	ASHOK PUNDIR
29.	180225126071	RAJIV	DEV SHARMA
30.	180225126072	RAJNEESH KUMAR	DHARMVEER
31.	180225126073	RAM BABU	MAHESH SAINI
32.	180225126074	RANDEEP	SHIV KUMAR
33.	180225126075	RITIK CHAUDHARY	ISM PAL
34.	180225126076	RITIK KUMAR	MAN SINGH
35.	180225126077	RITIK KUMAR	VINIT KUMAR
36.	180225126078	ROHIT KUMAR	RAJ KUMAR
37.	180225126079	ROHIT KUMAR	ARVIND KUMAR
38.	180225126081	SACHIN KUMAR	MAHAVEER SINGH
39.	180225126084	SANDEEP KUMAR	VINOD
40.	180225126085	SATENDRA KUMAR	MAHAVEER SINGH
41.	180225126086	SATYAM PUNDIR	SURENDRA SINGH
42.	180225126087	SATYAVRAT RAGHUVANSHI	RAVINDRA SINGH
43.	180225126090	SAURABH RANA	CHARAN SINGH RANA
44.	180225126093	SHIVAM KUMAR	SURENDRA KUMAR
45.	180225126094	SHIVAM PAL	DHARMENDRA
46.	180225126095	SHUBHAM ŞHARMA	SATYA PRAKASH SHARMA
47.	180225126098	SUDHANSHU KARAN	SIJDARSHAN LAL
48.	180225126100	SUMIT	MANGERAM
49.	180225126103	UJJAWAL	VINOD KUMAR
50.	180225126104	UMANG PUNDIR	ASHOK KUMAR
51.	180225126106	VIKAS	SURENDRA KUMAR
52.	180225126107	VIKRANT KUMAR	RAJKUMAR
53.	180225126108	VINIT KUMAR	AADESH SINGH
54.	180225126110	VISH JEET DALLYAN	DHIRANDRA SINGH
55.	180225126112	VISHANT PUNDIR	PAWAN KUMAR
56.	180225126114	YUVRAJ	MANOJ KUMAR

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Shri Ram College, Muzaffarnagar

Department of Agriculture Attendance Sheet

Programme on Vermicompost Processing

																			_	ıst 20	19												
R	Roll No	Student Name																	L	ates													
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	3
	180225126012	AMAN KUMAR	P	A	P	5	P	A	P	A	P	P	5	B	P	P	1	A	P	5	P	P	A	P	P	J	5	P	A	P	P	P	f
	180225126013	AMIT	A	P	A	U	A	P	P	P	A	P	U	A	P	P	N	P	P	U	P	P	P	·A	P	A	U	P	P	H	P	P	1
i	180225126014	ANIKET KUMAR	P	A	P	N	P	P	P	P	P	P	N	K	P	P	D	P	P	N	P	A	P	P	P	N	N	P	P	P	A	P	1
1	180225126015	ANKIT KUMAR	A	P	A	P	P	A	P	F	H	P	D	R	P	A	E	P	P	0	P	P	P	P	1	η	D	P	P	P	P	P	f
	180225126016	ANKUR DHIMAN	P	A	P	A	A	P	P	P	A	P	A	İ	P	P	P	P	A	A	P	P	ħ	P	P	A	A	P	P	A	P	P	P
	180225126018	ANMOL SAIN!	P	P	P	7	P	P	P	P	8	P	y	D	A	P	E	P	P	4	A	P	P	P	P	5	4	P	A	P	P	1	1
	180225126019	ANOOP SINGH	A	P	A	X	P	P	P	P	P	P	1	2	P	A	N	P	P	7	P	A	P	P	A	H	4	A	P	P	P	P	8
	180225126115	ANUJ KUMAR	P	A	P	5	A	P	A	A	P	P	2	B	P	P	D	P	A	5	P	P	P	A	P	T	2	P	A	P	+	A	1
	180225126022	ANURAG	A	P	P	U	P	1	11	f	A	P	v	A	A	P	E	P	P	U	P	P	1	f	P	H	U	P	P	A	P	P	f
0.	180225126024	ARPIT SHARMA	P	A	10	N		ľ	P	19	P	P	N	K	P	A	N	P	P	N	P	P	A	P	P	M	N	P	A	P	P	1	f
1.	180225126025	ARUN	P	P	P	0	P	A	P	1	A	P	D	R	P	P	C	A	P	D	A	P	P	P	P	I	D	P	A	f	P	P	1
2.	180225126029	ARUN SAINI	A	P	P	A	R	P	f	A	P	A	A	I	P	A	E	P	A	A	P	P	P	P	P	1	A	P	P	P	P	P	f
3.	180225126027	ARUN KUMAR	P	A	P	y	P	P	p	P	P	P	y	D	P	P	D	A	P	y	P	A	P	P	1	1	4	P	户	P	P	1	1
4.	180225126033	BHANU PRATAP SINGH	P	P	A	X	P	P	P	A	P	A	1		P	A	A	P	P	7	P	A	P	A	P			P	A	P	A	X	11/
5.	180225126038	DHRUV DHARIWAL	P	P	1	F	f	F	71	A	P	P	V		P	P	Y	A	P	1	14	P	A	P	A	+		P	1	A	P	A	F

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17	180225126039	DIVYANSIIU BALIYAN	P	A	P	B	A	A	P	PH	P		5	B	P	P	+	P	A	9	P	P	P	P	P	5	C	P	A	f	P	P	P
L7.	180225126043	GUL MOHMMAD	A	P	P	U	P	A	P	PI	PA		U	A	P	P	N	P	P	U	A	P	P	P	P	A	U	P	P	P		P	0
ta.	180225126046	HIMANSHU	P	P	P	N	P	A	P	PI	9)	N	K	P	P	D	P	A	N	P	A	P	P	P	N	N	P	A	P	P	P	P
19.	180225126048	KARTIK	P	P	4	DI	P	P	P	A	91	P	D	R	P	P	E	P	A	Ø	P	P	A	P	A	M	D	P	P	P	P	P	P
20.	180225126052	MANUSHANKAR	P	P	P	A	P	P	P	P	PP		A	1	A	P	P	P	P	A	A	P	P	P	A	A	A	P	P	P	P	P	P
21.	180225126056	MOHIT MAURYA	P	P	P	41	4	P	P	PI	P		y	D	P	P	E	P	A	Y	P	A	P	A	P	\$	4	P	P	A	P	P	P
22.	180225126057	MOHIT SAINI	P		P	1	P	4	P	A	P		1		A	P	N	P	P	1	A	P	P	P	P	Ħ	1	A	P	P	A	P	P
23.	180225126055	MOHIT KUMAR	P	P	P	2	P	9	P	7	P		S	B	P	P	D	P	P	S	P	P	P	A	P	7	5	P	P	P	P	A	P
24.	180225126058	MUNEER	P	P	P	U	P	P	P	9 1	P		U	A	A	P	Ė	P	A.	U	P	P	A	P	A	A	U	P	A	P	P	P	P
25.	180225126060	NAVEEN	P	P	A	N	P	4	PI	PH	P	,	N	K	A	P	N	P	P	N	P	A	P	P	P	m	N	P	P	P	A	PV	P
26.	180225126061	NIXHIL KUMAR	P	A	P	DI	4	P	P	A	1	9	D	R	P	A	C	P	P	D	P	A	P	P	P	1	D	A	P	P	A	P	P
27.	180225126063	NITIN KUMAR	IP	A	P	A	PI	PY	2	9 (1	4	A	2	P	P	E	P	A	A	P	P	P	P	A	4	A	P	P	P	P	P	P
28.	180225126064	PRASHANT RANA	P	P	4	y	9	ρ	A	P	9 6	2	Y	D	P	A		P	P	4	P	A	P	P	A	*	Y	P	A	P	A	P	P
29.	180225126071	RAIIV	P		P		P	A	P	Pr	18			1	A	P	D	A	P		4	P	A	F	P			A	P	A	P	A	P
30.	180225126072	RAUNEESH KUMAR	P	P	P	5	. 4	7	PH	F	11	>	S		P	P	A	P	P	7	P	P	P	P	P		S	A	P	A	P	P	P
31.	180225126073	RAM BABU	P	P	P	1 1	P.	P	P)	PA	C	,		A	P	4	A	P		P	P	P	A	P		U	P	A	P	P	A	P
32.	180225126074	RANDEEP	P	P	P	N	A	P	n	91	P	9/	٧		P	A		P	P		P	P	P	A	P		N	P	A	P	P	P	P
33.	180225126075	RITIK CHAUDHARY	P		P	0	P,	A	P	P	9,	4	D		P	P		P	P		P	P	P	P	P		Ø	P	ρ	P	P	P	P
34.	180225126076	RITIK KUMAR	P	P	P	A	P	0	P	P	9	7	A		P	P		P	P		P	P	P	P	P		A	A	P	P	R	P	P
35.	180225126077	RITIK KUMAR	P	P	P	4	4	P	PK	1	P	1	y		P	P		P	P		1	A	P	P	P	-	4	P	P	P	R	P	P
36.	180225126078	ROHIT KUMAR	P	P	P		P	P	P	7 #	P			-	P	A	7588	P	P	4	P	A	P	P	P			A	P	R	(R)	P	P.
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180225126079	ROHIT KUMAR	P	A	P	5	P	1	A	P	P	P	P	2	S	B	P	P	生	P	P	5	P	A	P	P	P	T	5	27	P	P	P	P	1
180225126081	SACHIN KUMAR	P	8	A	U	A	1 8	6	A	P	A	1	2	U	A	A	P	N	A	P	U	A	P	n	P	P	P	U	P	P	A	P	P	1
180225126084	SANDEEP KUMAR	6	P	P	N	16	1	A G	9	P	P	P)	N	K	P	A	D	P	P	N	A	P	P	P	P	N	N	P	P	P	P	p	1
180225126085	SATENDRA KUMAR	P	A	P	D	P	P	P	1	P	A	P)	D	R	P	A	E	P	P	0	P	-	-	P	A	m	9	P	A	P	p	P	F
180225126096	SATYAM PUNDIR	P	P	P	A	P	1	9	9	A	P	P		A	T	P	P	P	P	P	A	A	P	P	P	P	A	A	P	P	P	A	P	1
180225126087	SATYAVRAT RAGHUVANSHI	P	P	P	4	F	P	1	A	0	P	P	7	4	カ	P	P	E	P	A	4	P	P	P	P	P	5	У	P	P	P	P	P	A
180225126090	SAURABH RANA	P	8	P		P	1	1		P	P	P	?	1	1	P	A	N	P	P	1	A	P	P	P	P	H	1	P	A	P	P	P	É
180225126093	SHIVAM KUMAR	P	P	8	5	A	f	1	AF		P	P	5	5	B	A	P	D	P	P	5	P	P	P	A	1	+	5	P	P	A	P	P	1
180225126094	SHIVAM PAL	P	A	P	U	P	7	8	1	P	P	#	1	U	A	P	P	ŧ	P	P	U	P	P	A	P	19	A	U	P	P	P	P	P	1
180225126095	SHUBHAM SHARMA	8	P	P	N	A	P	P	1	P	P	P	1	n	K	P	P	N	P	P	N	P	P	P	P	P	m.	N	P	P	P	A	P	-
180225126098	SUDHANSHU KARAN	P	P	P	0	P	P	P	7 6	9	P	8	1	D	R	P	P	C	P	P	D	P	P	P	P	P	t	D	1	P	P	P	4	
180225126100	SUMIT	4	P	P	A	A	P	P	16	P	P	A	1	9	T	P	P	E	9	A	A	P	P	P	P	P		A	A	P	P	A	P	1
180225126103	UIJAWAL	8	P	P	4	A	F	1	91	A	P	P	3	1	D	P	P	D	P	P	4	A	P	A	P	P	1	y	P	P	P	P	P	
180225126104	UMANG PUNDIR	A	P	P		P	16	1	PI	P	P	P	1	1	1	P	1	A	A	P	A	P	P	P	P	P		1	P	ħ	P	P	P	1
180225126106	VIKAS	P	A	P	5	Р	A	1	F	4	P	P	2			P	P	4	P	A	4	P	P	P	P	9			A	P	A	P	1	1
180225126107	VIKRANT KUMAR	P	P	P	U	P	P	P	1	2	P	P				P	P	1	P	P		P	P	P	P	P	1		P	P	P	P	P	,
180225126108	VINIT KUMAR	8	A	P	N	P	A	A	14	2	8	P				P	P		P	A		P	A	A	P	A		1	A	P	n	P	P	
180225126110	VISHUEET DALLYAN	8	PI	P	D	P	P	9	PF	0	4	P				P			A	P		P	P	P	P	P	1		P	P	P	P	A	-
180225126112	VISHANT PUNDIR	P	A	P	A	P	V	P	1	A	3	A			1	P	P		P	P		P	A	P	P	P		1	P	Ri	P	A	P	1
180225126114	YUVRAJ	P	8	P	4	8	A	P	16		PI	P			~	8	P	de	P	P	-	P	P	P	P	P	+	4	P	X	P	P	0	1
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REPORT

Agriculture department has been conducted a Certificate Course in Vermicompost Processing for one month. Vermicompost truly is nature's great disappearing act! Aristotle once said, "Worms are the Intestines of the Earth". Using worms to convert decomposing food waste into nutrient-rich fertilizer is simple, inexpensive, energy efficient, and a great way to teach students to become life-long recyclers. Vermicomposting technology is known throughout the world, albeit in limited areas. It may be considered a widely spread, though not necessarily popular technology. As a process for handling organic residuals,



It represents an alternative approach in waste management, in as much as the material is neither land filled nor burned but is considered a resource that may be recycled. In this sense, vermicomposting is compatible with sound environmental principles that value conservation of resources and sustainable practices. Vermicomposting is akin to composting in that similar feedstock-organic residuals -are used. Both systems utilize microbial activity to break down organic matter in the moist, aerobic environment. Vermicomposting is however faster, produces fewer odors and produces a superior product. But vermicomposting requires greater surface area, more moisture, and is susceptible to heat, high salt levels, high ammonia levels, and substances

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that may be toxic to earthworms. Of the 4400 identified earthworm species, specific species of litter dwelling earthworms are required for this purpose. Vermicomposting in developing countries could prove to be useful in many instances. Where accumulation of food wastes, paper, cardboard, agriculture waste, manures and biosolids is problematic, composting and vermicomposting offer potential to turn waste material into a valuable soil amendment. In the past ten years an organization in India has promoted over 3,000 farmers and institutions to switch from conventional chemicals to the organic fertilizer, vermicompost. Vermiculture enables any scale or size of operation. Vermicompost is being used in over 1, 00,000 hectare cultivated area in almost all agro-climatic zones in India. Noted for its ability to increase organic matter and trace minerals in soil, vermiculture has been the primary focus at Maharashtra Agricultural Bioteks in India, an organization that has initiated both commercial and educational ventures to promote vermiculture.

Total fifty six students were participated in Vermicompost processing certificate course. Students understood the method of making vermicompost in this program. The main objective of this program is to promote students for organic farming and to reduce Chemical use farming.

Aims& Objective of this certificate course were following:

- Students will be able to compost in a limited space and describe the decomposing process.
- The interested students will get the knowledge of composting,
- Students will get the employment,
- They can generate employments.
- They will also turn towards organic farming,
- Will help to maintain the environment pollution free and
- Knowledge of biodiversity of local carthworms.

Advantage of the Course & Future Prospects:

- Students can construct their own compost farm & thereby can get monthly income of Rs. 7000-8000.
- 11. Students/ farmers by using vermicompost in their field can increase the crop yield.
- Students residing in cities can produce vermicompost in small scale for garden/household plants.
- IV. They can get the jobs in educational institutes as vermicompost/vermiculture technician.
- The candidate can generate income by supplying verms, vermiwash, & vermicompost.
- VI. By developing & propagating vermicompost technology he/she will directly or indirectly help to prevent environmental pollution, by using vermicompost in the field & thereby increasing crop yield he will help to solve food problems.

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- VII. It will lead towards organic farming & healthy food.
- VIII. In today's world, recycling of garbage has become necessary in order to sustain our health and environment. So let's join for Four R's of Recycling Reduce, Reuse, Recycle, Restore i.e. certificate course in vermicompost Processing.

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RAM COLLEGE OF MUZAFFARNAGE



Certificate Course On "Vermicompost Processing"

2019-20

This is to certified that Mr. /Ms.... of_____has successfully completed the Fifty hours Certificate Course on "Vermicompost Processing" conducted by the Department of Agriculture From _______ and he/she has secured A/B/C Grade.

(Dr. K S Barman) Coordinator

(Dr. Naveem) Head, Dept. of Agriculture (Dr. Aditya Gautam) Director

Principal





1:- Guide to Students for vericompost preparation by Faculty



2:- Advise to Students for Vericompost preparation by Faculty

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