

MEMORANDUM OF UNDERSTANDING (MOU)

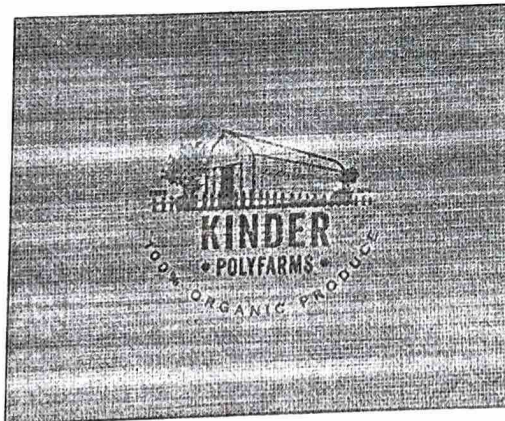
Between



K.R. MANGALAM UNIVERSITY
E D U C A T I O N F O R L I F E
(Recognized by UGC and a member of AIU)

K.R. MANGALAM UNIVERSITY
Sohna Road, Gurugram (Haryana)-122103

And



KINDER POLYFARMS

Village- Palla, Bakhtawarpur
Alipur (Delhi)
110036

Registrar
K.R. Mangalam University
Sohna Road, Gurugram, (Haryana)

MEMORANDUM OF UNDERSTANDING

Kinder

The Memorandum of Understanding is executed on 6th October, 2022.

BETWEEN

K.R. Mangalam University, Sohna Road, Gurgaon - 122103 (Delhi NCR Region), a University established under the Haryana Private Universities Act 2006 (Amended 08 of 2013) and under section 2(f) of UGC Act, 1956 wherein empowered to award degrees, as specified under section 22 of the UGC Act, 1956, through its Registrar, duly authorized to enter into and sign an MOU on behalf of SOAS, K.R. Mangalam University (herein after referred to as SOAS, KRMU) PARTY OF THE FIRST PART.

AND

Kinder Polyfarms, Village- Palla, Alipur (Delhi)- 110036, through Mr. Akash Singh, Partner- Kinder Polyfarms duly authorized in this regard to sign an MOU on behalf of Kinder Polyfarms, PARTY OF THE SECOND PART.

The expression School of Agricultural Sciences, KRMU and Kinder Polyfarms shall, mean and include the Institutions/Organizations, their successors, appointees, assignees etc.

1. SCOPE OF THIS AGREEMENT

The scope of collaboration on academic and research activities in this Memorandum of Understanding includes the following categories:

- (i) Academic and Research collaboration in the areas of mutual interest. It is expected that this collaboration will in due course lead to collaborative research projects, joint publications, joint workshops and seminars, webinars, guest lectures, etc.
- (ii) Cooperation by the parties in the area of skill based training, internship and other events or programs for students as the case may be. There is no financial responsibility on any of the parties to this MOU.

2. RESEARCH COLLABORATION

Faculty and staff from both parties will collaborate in the joint research in disciplines of mutual interest. All such joint research activities will be governed by the terms as given below:

Proposals for collaborative research work under


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submitted with the prior approval of the Head of each institution, or his/her nominee.

- ii. Each institution will nominate one of its members as its representative in charge of the cooperative programme. Individual programme of work under this Memorandum will be jointly planned and conducted by the nominees of both parties
- iii. Progress of work of any individual programme will be reviewed and approved by designated authorities of both parties.
- iv. Neither School of Agricultural Sciences, K.R. Mangalam University nor Kinder Polyfarms will be held responsible for any liability to the party, and neither party shall be required to purchase any insurance against loss or damage to any property due to activities to which this agreement relates.
- v. Every collaboration will have its own agreement / contract which addresses issues such as IPR, funding pattern, usage policies of research facilities, disclosure of information etc.
- vi. Every joint publications, joint workshops and seminars, webinars, guest lectures will be conducted, reviewed and approved by designated authorities of both parties.

3. TRAINING AND PLACEMENT

That the parties shall also collaborate for any other purpose concerning education & training of students of the Second Party, which is not covered in this MOU after mutual discussion and on consent of both parties.

- i. Kinder Polyfarms will provide internship certification to acknowledge and appreciate student's work. If required, Kinder Polyfarms will support the training and placement of the students of School of Agricultural Sciences, KRMU.
- ii. Motivational and confidence building Workshops to aspire them to achieve their career goals.
- iii. Internship /Rural Agricultural Work Experience (RAWE)/ Agro-Industrial attachment (AIA) Opportunities for Students in the organization.

The selection and nomination of students is open throughout the academic year. The student nomination should be accompanied by

- i. Curriculum vitae
- ii. Statement of aptitude from a member of the student's school/ faculty.
- iii. A specific outline of the programme of study at the host institution and a statement of objectives of the students.

When a nomination is forwarded by the home institution, it is presumed that the sending Institution considers the students suitable for the proposed internship, training and placement


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and consents to send the students if selected by the host institution. The host institution will evaluate the nominations and determine their suitability for selection under the Student Internship and Training Programme.

4. COMMENCEMENT, RENEWAL, TERMINATION AND AMENDMENT

This MoU will come into force upon affixing of the signatures of the representatives of the partner institutions and will remain in effect for two (2) years. This MoU may be renewed upon its expiry, with the agreement of both the partner institutions. If either partner institution wishes to terminate the MoU at the end of two years, it must notify the other institution not less than six months prior to the expiry of the MoU.

This MoU or its renewal and the actions taken under it may be reviewed at any time. Modifications may be made by mutual agreement and any amendment or extension to the agreement may be formalized by the exchange of letters between the two parties.

For K.R. Mangalam University
(School of Agricultural Sciences)

For Kinder Polyfarms



Gp. Capt. Praveen Mahajan
Registrar

Dated: 06 Oct, 2022

Sh. Akash Singh,
Partner- Kinder Polyfarms

Dated:, 2022

1. WITNESS

(Dr. Khushboo Singh)

1. WITNESS

2. WITNESS

(Dr. Sahil Mehta)

2. WITNESS



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Sohna Road, Gurugram, (Haryana)



K.R. MANGALAM UNIVERSITY
THE COMPLETE WORLD OF EDUCATION

School of Agricultural Sciences

Dated: 02.11.2022

Ref. No: KRMU/SOAS/2022-23/1008

Sub: Permission for conduction of activity under MoU with The Green Planters and Kinder Polyfarms, New Delhi

Sir,
SOAS, KRMU has MoU with The Green Planters and Kinder Polyfarms, New Delhi. So, we have to conduct activities under these MoU and take students to New Delhi on 03-11-2022. Kindly allow us for the same please. Dr. S. P. Singh and Dr. Vikas Sharma will be accompanying the students. Kindly provide us with the transport facility for the day to take the students from KRMU to New Delhi and back on 03-11-2022. So I request you to please give permission to SOAS for smooth conduction of the activities.

Thanks

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School of Agricultural Sciences (SOAS)
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Sohna Road, Gurugram, Haryana 122103

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Pro Vice-Chancellor / Registrar.

Mahaja
2/11/22

Vice-Chancellor / CSohney



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SCHOOL OF AGRICULTURAL SCIENCES
ACADEMIC SESSION 2022-23

KRMU/SOAS/Notice/2022-23/____

01/11/2022

NOTICE

Field Project on Workshop on Composting under MoU with Kinder Polyfarm.

School of Agricultural Sciences is organizing a field project on Workshop on Composting under MoU with Kinder Polyfarm for Students at SOAS (School of Agricultural Sciences), KRMU University, Gurugram, scheduled for November 3, 2022.

The objectives of the program are:

- To acquaint the students with process of composting
- To Enhance students' how to use composting during cultivation of organic vegetables .
- To know about advantages of composting in current agriculture system


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School of Agriculture Sciences (SOAS)
K.R. Mangalam University
Sohna road, Gurugram
Haryana 122103
Dean, SOAS


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K.R. MANGALAM UNIVERSITY
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Sohna Road, Gurugram

“Title of Field Project”

Field project on workshop on composting under MOU with Kinder Polyfarm

(Field Project Report)

School of Agricultural Sciences

Programme Code

Project Guide: Mr. S.P Singh and Dr. Vikas Sharma

Academic Year – 2022-23

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School of Agriculture Sciences (SOAS)
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Sohna Road, Gurugram
122105


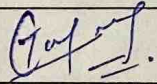
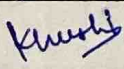
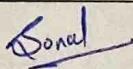
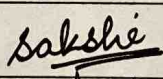
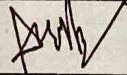
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Sohna Road, Gurugram

Singh

DECLARATION

We undersigned hereby declare that this field project report represents work carried out by us. We also declare that we have adhered to all the principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/ data / fact /source in our submission. We understand that any violation of the above will lead to disciplinary action by the Institute. The findings in this report are based on the sampling / survey /data collection / recording during the field survey held on 03/11/2022 at Bakhtawarpur, Alipur, Delhi under the guidance of S.P. Singh, Assistant Professor, *School of Agricultural Sciences*.

Name of the students

| Name of the students | Roll numbers of students | Signature of the students |
|----------------------|--------------------------|--------------------------------------------------------------------------------------|
| Rihan Khan | 2113820022 |  |
| Tufail | 1913820005 |  |
| Khushi Kalra | 2113820007 |  |
| Sonal | 2113820008 |  |
| Sakshi | 2113820017 |  |
| Anushka | 2113820015 |  |

Programme Name (Programme Code)- 82

Date: 03/11/2022


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Sohna road, Gurugram
Haryana 122103



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Name of Activity: Activity Under MoU with Kinder Polytechnic, ~~Delhi~~

Date: 3/11/2022

Venue: Vill. Palla, Bakhtawarpur, Alipur (Delhi) 110036

Organized by: SOAS

ATTENDANCE RECORD

| S. No. | Roll No. | Student Name | Programme & Semester | Signature of Student |
|--------|------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1 | 2113820022 | RIHAN KHAN | 3rd | |
| 2 | 1913820005 | TUFAIL | 4th ^{1st} ^{2nd} ^{3rd} ^{4th} ^{5th} ^{6th} ^{7th} ^{8th} ^{9th} ^{10th} ^{11th} ^{12th} ^{13th} ^{14th} ^{15th} ^{16th} ^{17th} ^{18th} ^{19th} ^{20th} ^{21st} ^{22nd} ^{23rd} ^{24th} ^{25th} ^{26th} ^{27th} ^{28th} ^{29th} ^{30th} ^{31st} ^{32nd} ^{33rd} ^{34th} ^{35th} ^{36th} ^{37th} ^{38th} ^{39th} ^{40th} ^{41st} ^{42nd} ^{43rd} ^{44th} ^{45th} ^{46th} ^{47th} ^{48th} ^{49th} ^{50th} ^{51st} ^{52nd} ^{53rd} ^{54th} ^{55th} ^{56th} ^{57th} ^{58th} ^{59th} ^{60th} ^{61st} ^{62nd} ^{63rd} ^{64th} ^{65th} ^{66th} ^{67th} ^{68th} ^{69th} ^{70th} ^{71st} ^{72nd} ^{73rd} ^{74th} ^{75th} ^{76th} ^{77th} ^{78th} ^{79th} ^{80th} ^{81st} ^{82nd} ^{83rd} ^{84th} ^{85th} ^{86th} ^{87th} ^{88th} ^{89th} ^{90th} ^{91st} ^{92nd} ^{93rd} ^{94th} ^{95th} ^{96th} ^{97th} ^{98th} ^{99th} ^{100th} | |
| 3 | 2113820007 | KHUSHI KALRA | 3rd | |
| 4 | 2113820008 | SONAL | 3rd | |
| 5 | 2113820017 | SAKSHI | 3rd | |
| 6 | 2113820015 | ANUSHKA | 3rd | |
| 7 | | | | |
| 8 | | | | |
| 9 | | | | |
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| 13 | | | | |
| 15 | | | | |

Signature of Incharge [With Date]

Signature of Dean [With Date]

Registrar
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Sohna Road, Gurugram, (Haryana)

DEAN
School of Agriculture Sciences (SOAS),
K.R. Mangalam University
Sohna Road, Gurugram
Haryana 122103

Place- Palla, Bakhtawarpur, Alipur, Delhi-110036

CERTIFICATE

| Sr. No. | Student's Name | Roll Number | Place of Work | Duration of Field Project |
|---------|----------------|-------------|-----------------------------------------------------|---------------------------|
| 1. | Rihan Khan | 2113820022 | Palla, Bakhtawarpur, Alipur, Delhi- 110036 | 25 Days |
| 2. | Tufail | 1913820005 | | |
| 3. | Khushi Kalra | 2113820007 | | |
| 4. | Sonal | 2113820008 | | |
| 5. | Sakshi | 2113820017 | | |
| 6. | Anushka | 2113820015 | | |

This is to certify that enrolled in *School of Agricultural Sciences (program code:82)* has / have satisfactorily completed the project title "Field project on workshop on composting under MOU with Kinder Polyfarm " under the guidance of S.P. Singh, *Assistant Professor of the subject "Agronomy" of School of Agricultural Sciences.*

This project work represents their original work and the references given in the present report are authentic.

Guide Name- S.P. Singh

Dean Name- Dr. S.S. Sharma

Department- Agriculture

School Name- SOAS

School Name- School of Agricultural Sciences

Note: This is certificate is to be issued for the field projects executed by UG students under guidance of faculty members.

DEAN
School of Agriculture Sciences (SOAS)
Mangalam University
122100

Place- Palla, Bakhtawarpur, Alipur, Delhi-110036

CERTIFICATE

| Sr. No. | Student's Name | Roll Number | Place of Work | Duration of Field Project |
|---------|----------------|-------------|-----------------------------------------------------|---------------------------|
| 1. | Rihan Khan | 2113820022 | Palla, Bakhtawarpur, Alipur, Delhi- 110036 | 25 Days |
| 2. | Tufail | 1913820005 | | |
| 3. | Khushi Kalra | 2113820007 | | |
| 4. | Sonal | 2113820008 | | |
| 5. | Sakshi | 2113820017 | | |
| 6. | Anushka | 2113820015 | | |

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This project work represents their original work and the references given in the present report are authentic.

Guide Name- S.P. Singh

Department- Agriculture

School Name- School of Agricultural Sciences

DEAN
School of Agricultural Sciences (SOAS)
M. R. Mangalam University
Gurgaon, Haryana
122705

Dean Name- Dr. S.S. Sharma

School Name- SOAS


Note: This is certificate is to be issued for the field projects executed by UG students under guidance of faculty members.

TABLE OF CONTENTS

| | Page Number |
|------------------------------------------|-------------|
| Declaration | 2 |
| Certificate | 4 |
| Introduction | 5 |
| Objectives | 5 |
| Description of Activities | 6 |
| Observations / Survey | 6 |
| Background information / Previous Work | 7 |
| Factual data and timelines | 7 |
| Demographic Information | 7 |
| Detailed Description of work | 8 |
| Interpretation and Analysis | 9 |
| Conclusion | 9 |
| Recommendation | 9 |
| References | 9 |
| Appendix includes Geo-Tagged Photographs | 10 |

Note: Conclusion section must include the benefits to society through this project quantitatively. Inclusion of Geo tagged photographs is mandatory requirement.

School of Environment
D. J. Singh
2023


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Note: Conclusion section must include the benefits to society through this project quantitatively. Inclusion of Geo tagged photographs is mandatory requirement.

Introduction:

Mr. Mukund Singh (Agri expert) from Kinder polyfarm gave lecture on composting, I have used rice straw 30 kg and 15 kg of cow dung and water total of around 10 liters. Whereas in the previous method of composting rice straw that various people has been used is time consuming, laborious, and required a large quantity of water. In one of the similar work of composting of rice straw was done by International Crops research Institute for the Semi-Arid Tropics (ICRISAT), they have processed 1 ton of rice straw and uses 3000 liter of water along with they have used additional microbes and urea also rock phosphate.

Objectives:

1. To aquent the students with the process of composting.
2. To how to use composting during cultivation of organic vegetables.
3. To know about advantages of composting in current agriculture system.

Description of Activities

The method that I used is to use rice straw, cow dung, and water in layering it in such a way so that the process of composting can be accelerated. In which the bottom layer was made from rice straw, and that layer is 10cm in height, 10cm of width, and 10 cm of height. Similarly, the next layer of cow dung is placed over it after watered it for maintaining appropriate moisture. Once again, rice straw was spread over the cow dung layer, maintaining the 10cm of height after sprinkling the water on the cow dung layer. After finishing each layer, water was sprinkled for adequate moisture. Repetition of the layer formation was continued up to 2 ft.

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M. Singh

of height, 2ft. of length, and 2 ft. of width and finally cover it completely with rice straw.

Observations / Survey

The pile is first turned over after 15 days then maintained with proper moisture. After that, again, the pile was labeled. This practice was continued after 15 days over the pile was regularly flick through and watered for 90 days after turned up the pile for the first time the turning of the pile followed by every seven days and also maintain the proper moisture that is water does not flow from the pile and it does not look dry by appearance like 50% of moisture is maintain by sprinkling the water.

Background information / Previous Work

Composting is the managed decomposition of plant-based organic matter such as leaves, grass clippings, food, and manure (from plant-eating animals such as horses or cows) into rich soil that can be used as fertilizer. This organic matter is unstable, in that decomposition occurs in a matter of hours, days, or weeks.

Factual data and timeline

20 students participated in the workshop along with two faculty members. Mr. Mukund Sing delivered a lecture on compost formation, its uses and composition of the compost.

Date : 03/11/2022

Place: Palla, Bakhtawarpur, Alipur, Delhi-110036

Demographic Information

Palla, Bakhtawarpur, Alipur, Delhi-110036

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Sohna Road, Gurugram



Detailed Description of work

Rice straw, cow dung and bio-decomposer were in layers to accelerate the composting process. In which the bottom layer was made from rice straw, and that layer is 10cm in height, 10cm of width, and 10 cm of height. Similarly, the next layer of cow dung is placed over it after watered it for maintaining appropriate moisture. Once again, rice straw was spread over the cow dung layer, maintaining the 10cm of height after sprinkling the water on the cow dung layer. After finishing each layer, water was sprinkled for adequate moisture. Repetition of the layer formation was continued up to 2 ft. of height, 2ft. of length, and 2 ft. of width and finally cover it completely with rice straw.

The pile is first turned over after 15 days then maintained with proper moisture. After that, again, the pile was labeled. This practice was continued after 15 days over the pile was regularly flick through and watered for 90 days after turned up the pile for the first time the turning of the pile followed by every seven days and also maintain the proper moisture that is water does not flow from the pile and it does not look dry in appearance.

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Interpretation and Analysis

Students learnt about the formation of compost from rice straw.

Conclusion :

Mr. Mukund Singh (Agri. expert) delivered a lecture on the formation of compost from rice straw. The students of SOAS actively participated in the process of compost formation and ultimately the whole rice straw was packed one place and impregnated with water and organic decomposer and kept undisturbed for 2 months for complete decomposition and compost formation.

Recommendation:

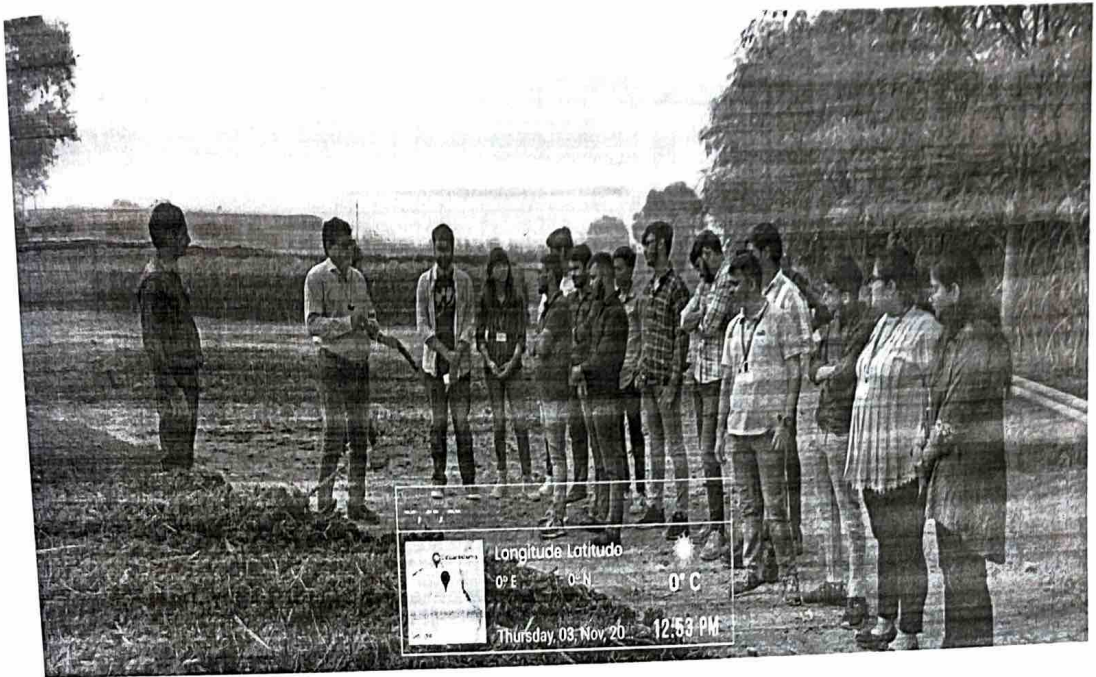
Rice straw, bio-decomposer, water and dung are required for compost formation.

References

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Appendix includes Geo-Tagged Photographs



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SCHOOL OF AGRICULTURAL SCIENCES
ACADEMIC SESSION 2022-23

KRMU/SOAS/Notice/2022-23/ _____

Date: 20/12/2022

NOTICE

Field Survey of Different Horticultural, Spices, and Condiments Crops under MOU with Kinder Polyforms.

School of Agricultural Sciences is organizing a Field Survey of Different Horticultural, Spices, and Condiments Crops under MOU with Kinder Polyforms, scheduled for December 22, 2022.

The objectives of the program are:

- To identify and survey of different exotic & indigenous vegetables, spices, and condiments crops grown near Pala village.
- To study about post-harvest management and marketing of different horticultural, spices and condiment crops.

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K.R. MANGALAM UNIVERSITY

THE COMPLETE WORLD OF EDUCATION

Sohna Road, Gurugram

**“Field Survey of Different Horticultural, Spices
and Condiments Crops ”**

(Activity under MoU with The Kinder Polyfarms)

(Field Project Report)

School of Agricultural Sciences

Programme Code - 82

Project Guide: Dr. S.S. Sharma and Dr. Vikas Kr. Sharma

Academic Year - 2022-23

DECLARATION

We undersigned hereby declare that this field survey report represents work carried out by us. We also declare that we have adhered to all the principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/ data / fact / source in our submission. We understand that any violation of the above will lead to disciplinary action by the Institute. The findings in this report are based on the sampling / recording during the field survey held on 22/12/2022 at "The Kinder Polyfarms, Village - Palla, Bakhtawarpur, Alipur, Delhi - 110036" under the guidance of Dr. S.S. Sharma (Dean, SOAS) and Dr. Vikas Kumar Sharma (Assistant Professor, SOAS), K.R. Mangalam University, Gurugram (Haryana).

Student's details:

| Name of the students | Roll numbers of students | Signature of the students |
|----------------------|--------------------------|---------------------------|
| Harish Yadav | 2013820004 | |
| Bijender Kumar | 2113820012 | |
| Gaurav Kumar | 2113820016 | |
| Rihan Khan | 2113820022 | |
| Divesh | 2213820016 | |
| Ashish Saini | 2013820006 | |
| Aamir Khan | 2013820009 | |
| Dishant | 2113820010 | |
| Yogesh Sharma | 2113820014 | |

Programme Name (Programme Code)- 82

Date: 22/12/2022

Place- The Kinder Polyfarms, Palla, Bakhtawarpur, Alipur, Delhi-110036


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Sohna Road, Gurugram (Haryana)
K.R. Mangalam University (SOAS)
Sohna road, Gurugram
Haryana 122103

CERTIFICATE

| Sr. No. | Student's Name | Roll Number | Place of Work | Duration of Field Project |
|---------|----------------|-------------|---------------------------------------------------------------------------------|---------------------------|
| 1. | Harish Yadav | 2013820004 | The Kinder Polyfarms, Palla, Bakhtawarpur, Alipur, Delhi- 110036 | 25 Days |
| 2. | Bijender Kumar | 2113820012 | | |
| 3. | Gaurav Kumar | 2113820016 | | |
| 4. | Rihan Khan | 2113820022 | | |
| 5. | Divesh | 2213820016 | | |
| 6. | Ashish Saini | 2013820006 | | |
| 7. | Aamir Khan | 2013820009 | | |
| 8. | Dishant | 2113820010 | | |
| 9. | Yogesh Sharma | 2113820014 | | |

This is to certify that enrolled in School of Agricultural Sciences (Program code: 82) has / have satisfactorily completed the project title "Field Survey of Different Horticultural, Spices and Condiments Crops under MOU with Kinder Polyfarms" under the guidance of Dr. S.S. Sharma (Dean, SOAS) and Dr. Vikas Kumar Sharma (Assistant Professor, SOAS), K.R. Mangalam University, Gurugram (Haryana).

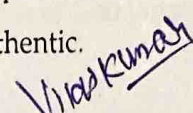
This project work represents their original work and the references given in the present report are authentic.

Guide Name - Dr. Vikas K.R. Sharma

Department- Agriculture

School Name- School of Agricultural Sciences

Note: This is certificate is to be issued for the field survey / projects executed by UG students under guidance of faculty members.


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TABLE OF CONTENTS

| Description | Page Number |
|------------------------------------------|-------------|
| Declaration | 2 |
| Certificate | 3 |
| Introduction | 5 |
| Objectives | 5 |
| Description of Activities | 5 |
| Observations / Survey | 5 |
| Background information / Previous Work | 6 |
| Factual data and timelines | 6 |
| Demographic Information | 6 |
| Detailed Description of work` | 6 |
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| References | 8 |
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Note: Conclusion section must include the benefits to society through this project quantitatively. Inclusion of Geo tagged photographs is mandatory requirement.

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Introduction:

Horticultural crops including fruits, vegetables, spices and condiments plays an important role in daily nutritional requirement of peoples by supplies vitamins and minerals to the human diet and can contribute to the prevention of diseases. Dr. S.S. Sharma, Dean, SOAS, KR Mangalam University, Gurugram started the session with a brief introduction and importance of different horticultural crops in human diet and Indian economy. He also told India occupies the second position in the cultivation of vegetables after China. He stated that people in higher socio-economic groups are more likely to consume exotic vegetables but some indigenous vegetables may contain higher nutritional value than exotic vegetables. So, keeping view the above point's field survey of different horticultural, spices and condiments crops is done in collaboration with Kinder Polyfarms.

Objectives:

1. To identify and survey of different exotic and indigenous vegetables grown near palla village.
2. To identify and survey of different spices and condiments crops grown near palla village.
3. To study about the post-harvest management and marketing of different horticultural, spices and condiment crops.

Description of Activities

Speaker of the today's event Mr. Somnath Singh (Farm Manager, The Kinder Polyfarms), interacted with the students and told that spices and condiments constitute an important group of horticultural commodities, which, since antiquity, have been considered indispensable in the culinary arts for flavouring foods. Some are used in pharmaceutical, perfumery, cosmetics and several other industries, and others possess colorant, preservative, antioxidant, antiseptic and antibiotic properties. He also told near palla village around 100 acres of vegetables (exotic and indigenous) and spices being cultivated organically.

Observations / Survey


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The aim of this field survey was to identifying different horticultural, spices and condiments grown in the irrigated area of along Yamuna River in Village-Palla, Delhi. The students surveyed the nearby fields of Kinder Polyfarm for different exotic vegetable *i.e.* Dill Leaves, Red Lettuce, Kale, Broccoli, Brussels Sprouts, Red Cabbage, Zucchini and indigenous vegetables and spices *i.e.* Spinach, Coriander, Fenugreek, Cabbage, Cauliflower, potato and tomato.

Background information / Previous Work

Before starting the organic cultivation of vegetables the farmers cultivate these vegetables by using chemical fertilizers and pesticides. Many of the pesticides have been associated with health and environmental issues, and the agricultural use of certain pesticides has been abandoned. Exposure to pesticides through contact with the skin, ingestion, or inhalation caused dermatological, gastrointestinal, neurological, carcinogenic, respiratory, reproductive, and endocrine diseases or disorder. The produce of the farm also fetching low price but now with organic cultivation farmers are getting better price for their produce.

Factual data and timeline

09 students participated in the survey of different horticultural, spices and condiments along with two faculty members. Mr. Somnath Singh (Farm Manager, The Kinder Polyfarms) delivered a lecture on importance and scope of these horticultural, spices and condiments crops in human diet and production technology.

Date: 22/12/2022

Place: The Kinder Polyfarms, Palla, Bakhtawarpur, Alipur, Delhi-110036

Demographic Information

The Kider Polyfarms, Village - Palla, Bakhtawarpur, Alipur, Delhi-110036

Detailed Description of work

Dr. S.S. Sharma, Dean, SOAS, KR Mangalam University, Gurugram started the session with a brief introduction and importance of different vegetables in human diet and Indian economy. He also told that India is the world's largest producer of spices with a production of 10.7 million tonnes. India is also the largest exporter and consumer of spices in the world. Speaker of the today's event Mr.


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Somnath Singh (Farm Manager, The Kinder Polyfarms), interacted with the students and told spices and condiments constitute an important group of horticultural commodities and are used in pharmaceutical, perfumery, cosmetics and several other industries, and others possess colorant, preservative, antioxidant, antiseptic and antibiotic properties. The students surveyed the nearby fields of Kinder Polyfarm for different exotic vegetable *i.e.* Dill Leaves, Red Lettuce, Kale, Broccoli, Brussels Sprouts, Red Cabbage, Zucchini and indigenous vegetables *i.e.* Spinach, Coriander, Fenugreek, Cabbage, Cauliflower, potato and tomato. Finally, Dr. S.S. Sharma thanks to Mr. Somnath on behalf of the students of SOAS, KRMU, Gurugram, for cooperation and guidance to the students to conduct the survey.

Interpretation and Analysis

Students learn about the cultivation of different exotic and indigenous vegetables, spices, condiments and their post-harvest management. They also surveyed the crops grown in Palla village.

Conclusion:

The students of SOAS actively participated in the survey of horticultural, spices and condiments crops. During the interaction Mr. Mukund Singh brief that horticultural crops, spices and condiments contain essential oils, which provide taste, aroma and flavour to the food. Spices are frequently used to heighten the culinary appeal and also play a major role in preserving food in the kitchen. Dr. S.S. Sharma (Dean, SOAS, KRMU, Gurugram) told that horticulture is found as an optimal option for crop diversification in agriculture. The per unit earning capacity of farmers is much higher than in case of food grains and it also addresses environmental concerns.

Recommendation:

Horticultural production has surpassed the agriculture production in the country. However, the sector is still facing a lot of challenges in terms of high post-harvest loss and gaps in post harvest management and supply chain infrastructure. Most of the analyzed farmers are small farmers with land area varying from 0.2 ha to less than 1 ha. Previously, they run their business mostly in the traditional way. The results of the survey indicated that horticultural farming gives a higher net value


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return to the farmers compared to rice-wheat and secondary crop farming. Horticultural production can improve farmers' income in most areas in India. Being a source of vitamin, mineral and sometimes carbohydrate, horticulture commodities, have good potential for diversification of food patterns.

References

Appendix includes Geo-Tagged Photographs

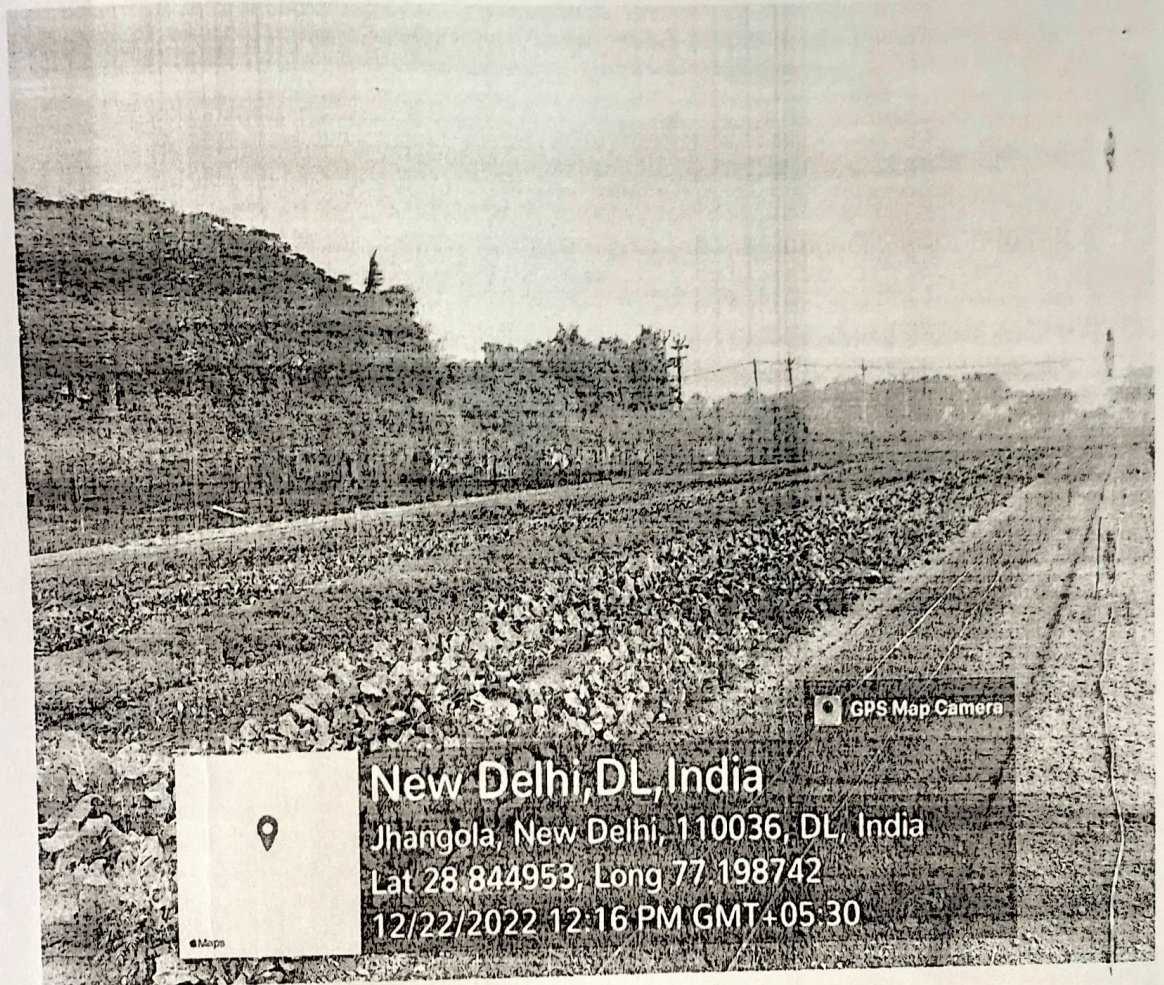


Photo 1: Field of exotic vegetables at The Kinder Polyfarms

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GPS Map Camera

New Delhi, DL, India
Jhangola, New Delhi, 110036, DL, India
Lat 28.844417, Long 77.199018
12/22/2022 12:33 PM GMT+05:30



Photo 2: Survey of vegetable, spices crops


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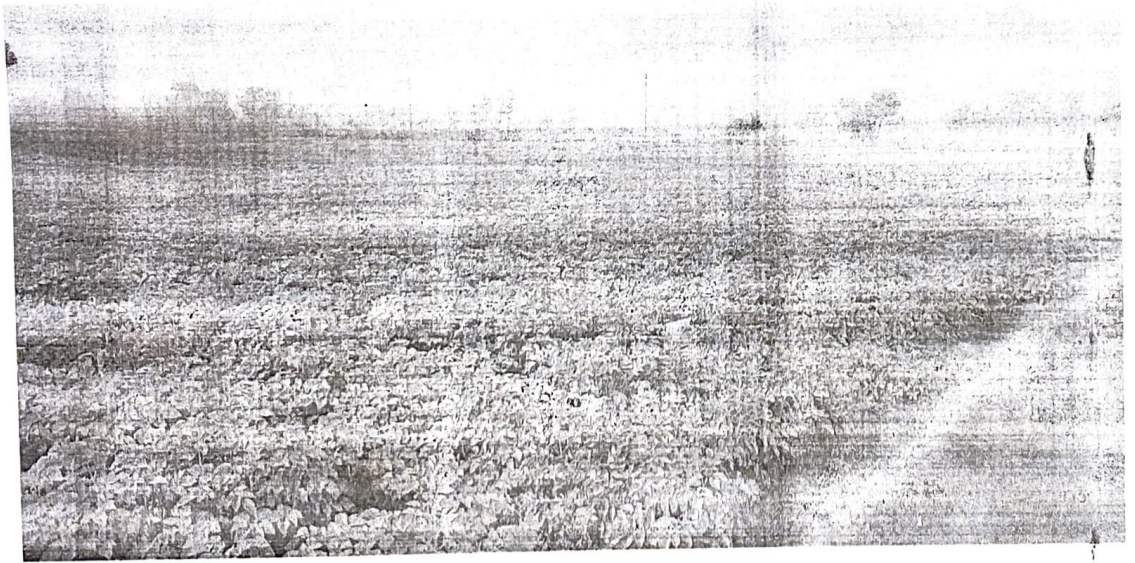


Photo 3&4: Vegetables field nearby Kinder Polyfarms


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THE COMPLETE WORLD OF EDUCATION

Name of Activity: Field survey of different Horticultural, spices & Condiments
(Under MoU with The Kinder Polytechnic)

Date: 22/12/2022

Venue: Village - Palla, Bahthowahpur, Alipur (Delhi) - 110036

Organized by: SOAS

ATTENDANCE RECORD

| S. No. | Roll No. | Student Name | Programme & Semester | Signature of Student |
|--------|------------|----------------|--------------------------------------------------------------|----------------------|
| 1 | 2013820004 | Narish Yadav | Bsc(Hons) Agriculture 4 th 5 th sem | |
| 2 | 2113820012 | Bijender Kumar | BSC(H) Agri III rd | |
| 3 | 2113820016 | Gaurav Kumar | Bsc(H) Agri IV th | |
| 4 | 2113820022 | Rihan Khan | Bsc(H) Agri III rd | |
| 5 | 2213820016 | Divesh | Bsc(H) Agri F | |
| 6 | 2013820006 | Abhishek | B. 5 th sem | |
| 7 | 2013820009 | Aamir | " | |
| 8 | 2113820010 | Dishant | BSC(H) Agriculture (III rd sem) | |
| 9 | 2113820014 | Yogesh | II | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 15 | | | | |

Signature of Incharge [With Date]

Virendra Kumar
22/12/2022

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Signature of Dean [With Date]
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