Report

on

Rural Agricultural Works Experience

&

Agro-Industrial Attachment



"To forget how to dig the earth and tend the soil is to forget ourselves"

-Mahatma Gandhi

Palli Siksha Bhavana (Institute of Agriculture),
Visva-Bharati (A Central University),
Sriniketan, Birbhum, West Bengal

2021-2022



"If a true school is to be founded in India, the school must be from the beginning group. The School will make use of the best methods in agriculture, the breeding of livestock and development of village crafts. The teachers, students and people of the surrounding countryside will be related to each other with the strong and intimate ties of livelihood. They shall co-operate to produce all the necessities of their own existence."



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Introduction

About the institute

Visva-Bharati was Founded by the first non-European Nobel Laureate Rabindranath Thākur(popularly known as Tagore) in 1921, Visva-Bharati was declared to be a central university and an institution of national importance by an Act of Parliament in 1951. The President of India is the Paridarsaka (Visitor) of the University, the Governor of West Bengal is the Pradhana (Rector), and the Prime Minister of India acts as the Acharya (Chancellor). The President of India appoints the Upacharya (Vice-chancellor) of the University. In May 1951, Visva-Bharati was declared to be a Central University and "An Institution of National Importance" by an Act of Parliament. It was granted the status of a unitary, teaching and residential university. The status and function of all the major institutions have been redefined in successive Amendments.

Palli-Siksha Bhavana (Institute of Agriculture) was established on September 1, 1963 as Palli-Siksha Sadana and later renamed as Palli – Siksha Bhavana in the Visva-Bharati Act, as amended in1984. Palli-Siksha Bhavana (Institute of Agriculture) imparts education in Agricultural Sciences both at undergraduate and post-graduate levels. It offers four-years (eight semesters) B. Sc.(Ag.) Honours Course and two-years M. Sc.(Ag.) courses in Agronomy, Plant Pathology, Agricultural Entomology, Agricultural Extension, Soil Science & Agricultural Chemistry, Horticulture, Genetics and Plant Breeding, and Animal Science with semester system of examination. There are facilities for research leading to Ph.D. degree in all branches of Agricultural Sciences. Apart from teaching and research, Palli-Siksha Bhavana (Institute of Agriculture) is also engaged in extension activities in the field of agriculture in the surrounding villages and elsewhere.

Rural Agricultural Work Experience and Agro-Industrial Attachment (RAWE & AIA) and Experiential Learning are compulsory and a part of the academic curriculum for undergraduate students. Other academic support units are Agricultural Farm, Horticultural Farm, Dairy and Poultry Farm, Engineering Workshop, Soil Testing Laboratory, Library and Rathindra Krishi Vigyan Kendra. The institute has its own placement cell, NSS unit etc. Accommodation in boys and girls hostels is possible subject to availability of vacant position.

Rural Agricultural Work Experience (RAWE) and Agro-Industrial Attachment (AIA)

As per 5th Dean's Committee of ICAR, this program will be undertaken by the B.Sc. (Ag.) Hons students for a total duration of 20 weeks with a weightage of 0+20 credit hours in two parts, namely, RAWE and AIA. It will consist of general orientation and on-campus training by different faculties followed by village attachment/unit attachment in university/ college/ KVK or a research station. The students would be attached with the agro-industries to get an experience of the industrial environment and working. Due weightage in terms of credit hours will be given depending upon the duration of stay of students in villages/agro-industries. At the end of RAWE/AIA, the students will be given one week for project report preparation, presentation and evaluation. The students would be required to record their observations in field and agro-industries on daily basis and will prepare their project report based on these observations.

Programme of RAWE & AIA Work

The RAWE & AIA programme comprises of ten components

1. Survey of Village 2. Agronomical Interventions 3. Plant Protections 4. Soil Improvement Interventions (Soil sampling and testing) 5. Fruit and Vegetable production interventions 6. Food Processing and Mechanization Interventions 7. Animal Production Interventions 8. Extension and Transfer of Technology activities 9. Agro-Industrial Attachment 10. KVK/Line department attachment

1. Survey of Village

The students shall take-up a survey of the village as per the prescribed scheduled. The students shall be required to collect the data on overall condition of village, resource endowment and its utilization, problems of labour and employment and other important economic aspect detailed in the schedule. The student shall also conduct a PRA of the village.

2. Agronomical Interventions

In agronomical interventions, the students will be exposed to various crops and different agronomical practices in farmer's field. He /She will also involve in production technology and management of various crops. The student shall maintain a record of work done in prescribed proforma.

3. Plant Protection Interventions

Under this, the students will be exposed to various plant diseases, insect-pests, and physiological disorders prevailing in the area and prescribe remedial measures. They will also interact will local farmers to understand various threat to major crops grown in the surroundings.

4. Soil Improvement Interventions (Soil sampling and testing)

Under this component the students shall involve in activities i.e. Soil Testing, Collection of soil sample by using Geo positioning system (GPS). Students shall study the Use of soil health card for fertilizer schedule, Integrated Nutrient Management (INM) and its importance in soil quality improvement, role and importance of micronutrients in crop production, soil salinity, alkalinity and acidity and its reclamation. Natural Resource Management (NRM), role of Bio-fertilizer in improving soil health, soil properties important for soil health, Quality control in fertilizer, Soil degradation, improvement of soil health for sustainable agriculture, vermi-compost and its role in improving soil health, classification of green manures & role in improving soil health, Water management, Crop rotation.

5. Fruit and Vegetable production interventions

In fruits and vegetables crops, the students shall involve themselves in field operation viz., seedbed preparation, nursery management, propagation etc. along with their host farmers. The student shall maintain a record of work done and will submit it at the end of the semester.

6. Food Processing and Mechanization Interventions

Students shall involve themselves to study and collect the information i.e. methods of food processing and preservation, Importance of processing technique, Common methods of storage, Post harvest management, Storage structure and methods of grain storage. They will learn different machineries used in agriculture such as tractor, power tiller, seed drill and transplanter, reapers, combine harvester

etc. They will survey the mechanization status of individual villages. They will also look into different irrigation facilities and equipment available for field crops, fruits and vegetables.

7. Animal Production Interventions

Under this, the students shall collect the information of livestock on various aspects i.e. daily maintenance and feed expenses, milk production, milk disposal, dairy products, egg and birds, pig etc.

8. Extension and Transfer of Technology activities

The students shall involve themselves in the following activities i.e. Participatory Rural Appraisal, Identification of agricultural problems of the village and training needs of the farmers, Conducting method demonstrations of improved practices, Organization of short duration farmers training camp, field visits and agricultural exhibitions, Study of the on-going rural and agriculture development programme in the villages, Arrange farmers meeting to discuss agricultural aspects, Visit to various village institutions and study their role in development programmes and other extension activities, Motivate farmers through different extension teaching methods, Documentation of success stories. Each student will prepare a report with respect to the activities indicated above and submit it to the Chairman of Advisory Committee for its evaluation. The students shall be given an opportunity to acquaint themselves with on-going programme and activities of research, development, marketing, extension agencies and organizations in the village. The students will submit report on the institutions he/she has visited.

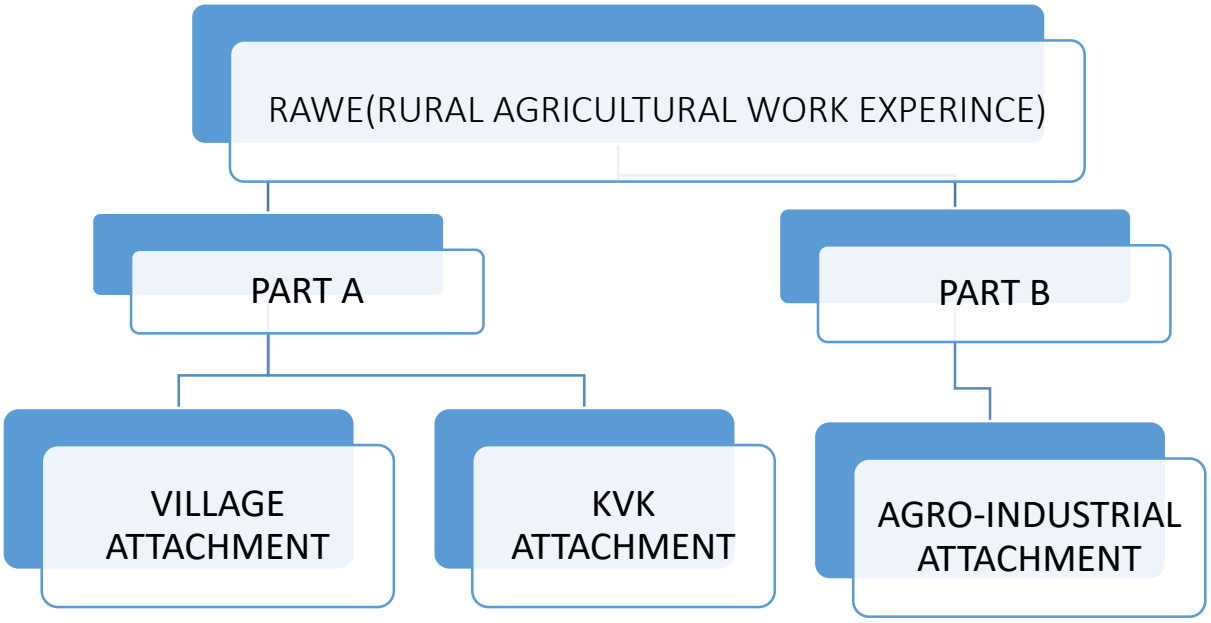
9. Agro-Industrial Attachment

The students shall involve themselves in the activities and tasks during Agro-Industrial attachment for four weeks duration viz. acquaintance with industry and staff, study of structure, functioning, objective and mandates of the industry, study of various processing units and hands-on trainings under supervision of industry staff, ethics of industry, employment generated by the industry, contribution of the industry promoting environment, learning business network including outlets of the industry, skill development in all crucial tasks of the industry, documentation of the activities and task performed by the students

10. KVK/Line department Attachment

KVK has been an important component for carrying out extension activities for the farmers and rural youths. During the stay at KVK/line departments, the student will learn the working process of the unit. They will participate various on-going activities of the KVK including workshop, training programmes and field visits. They will carry out hands-on session at the KVK to get real field experience under the supervision of KVK professionals. This programme will be two weeks long.

Activities of students during RAWE & AIA Programme



Class schedule of RAWE & AIA

The course was run from 31 January 2022 to 26 June 2022 for 20 weeks period as prescribed by the 5th Dean Committee of ICAR. One week was allotted for orientation of the programme. Five weeks were allotted for KVK attachment, eight weeks for Village attachment, four weeks for Agro-Industrial attachment. The remaining two weeks were used for report preparation and performance evaluation. Teacher in-Charges were engaged based on the theme of attachment programmes.

Table 1: Time schedule for RAWE & AIA programme

Sl No.	Time schedule	Component description	Lead Faculty
1	31 January - 27 February, 2022 (4 Weeks)	Agro-Industrial attachment	Prof. D. Sarkar (Dept. of Agril Economics)
2	28 February - 06th March, 2022 (1 Weeks)	Orientation Programme	Dr. J. Mandal, Dr. K.C. Swain, Prof. D. Sarkar, Dr. S. Mandal, Dr. K. Pramanik
3	07 March-13 March, 2022 (1 Week)	Survey of village	Prof. D. Sarkar (Dept. of Agril Economics)
4	14 March-20 March, 2022 (1 Week)	Fruit and vegetable production	Dr. Prahlad Deb (Dept. of Horticulture& Post-Harvest Tech.)
5	21 March-27 March, 2022 (1 Week)	Agronomical intervention	Dr. Narayan C. Sarkar (Dept. of Agronomy)
6	28 March-03 April, 2022 (1 Week)	Plant protection intervention	Dr. Bholanath Mondal (Dept. of Plant Pathology & Agricultural Entomology)
7	04 April-10 April, 2022 (1 Week)	Soil improvement interventions	Dr. Pabitra K. Biswas (Dept. of Soil Sc. &Agril. Chem.)
8	11 April-17 April, 2022 (1 Week)	Food processing and mechanization intervention	Dr. P. Kandasamy (Dept. of Agril. Engineering)
9	18 April-24 April, 2022 (1 Week)	Animal production intervention	Dr. Jayanta K. Chatterjee (Dept. of Animal Science)
10	25 April – 01 May, 2022 (1 Week)	Extension and transfer of technology	Dr. Darshan N. P. (Dept. of Agril. Extension)
11	02 May- 05 June, 2022 (5 Weeks)	KVK/Research station attachment	Dr. Anindita Saha (Dept. of Agril. Extension) Dr. S. Mandal RKVK
12	06 June-12 June, 2022 (1 Week)	Report preparation and Internal Evaluation	Dr. J. Mandal, Dr. K.C. Swain, Prof. D. Sarkar, Dr. A. Saha
13	20 June-26 June 2022 (1 Week)	Final Examination	Dr. J. Mandal, Dr. K.C. Swain and all lead Faculty members

Allotment of Village Attachment

The students were divided into five groups to carry out the village attachment of RAWE and AIA. Each group was allotted a village to interact with the farmers, visit the field and collect necessary data as instructed by teachers of different intervention programmes. Each village had teacher(s) in charge, village facilitator and student representative.

Table 3: List of students for village attachment

Sl. No.	Name of the student	Village allotment	Teacher-in-Charge/ Village Facilitator/ student rep.
1	Abhijit Ghosh	Ruppur Village, Birbhum	Prof. Debashis Sarkar (9434233469) & Dr. Anindita Saha (9831164141) Village facilitator: Mumtaz Bibi (7076172730) Student representative: Abhishek Roy (9382897982)
2	Abhishek Roy		
3	Anindita Maity		
4	Ankita Sarkar		
5	Arindam Pal		
6	Aritabha Kole		
7	Arpita Saha		
8	Atashi Roy		
9	Bibhash Nayak		
10	Bijoy Hansda		
11	Briti Sil		
12	Chaitali Karmakar	Ashadullapur Village, Birbhum	Dr. Pabitra Kumar Biswas (9434514218) & Dr. Swarnali Bhattacharya (9474475319) Village facilitator: Sukhodi Mardi (9382175061) Student representative: Geetikirti Sahoo (9002698150)
13	Dipankar Bagdi		
14	Geetikirti Sahoo		
15	Ishani Kandari		
16	Jatindra Nath De		
17	Krishnakali Roy		
18	Maheswar Dey		
19	Meghna Garai		
20	Mrinmoy Das		
21	Nihar Ranjan Rakshit		
22	Paramita Mandal		

23	Partha Boyra	Mala Village, Birbhum	Dr. Bholanath Mondal (9475847310) & Dr. Darshan N.P. (8618633937) Village facilitator: Totun Ghosh (8637877486) Student representative: Ranjita Panja (8514809776)
24	Partha Das		
25	Piyali Pal		
26	Prasun Kumar Dey		
27	Prianty Chakraborty		
28	Pritha Saha		
29	Priyojit Sarkar		
30	Puja Chowdhury		
31	Rajdeep Das		
32	Rani Patra		
33	Ranjita Panja		
34	Rishita Sen	Mahula Village, Birbhum	Dr. P. Kandasamy (9434306277) & Dr. Prahlad Deb (9434484303) Village facilitator: Ranjit Roy (7908565512) Student representative: Subham Sen (9647802705)
35	Samriddhi Samaddar		
36	Sayanti Ghosh		
37	Shrabasti Sikder		
38	Shreya Barui		
39	Shreyasi Samaddar		
40	Sk Moinuddin		
41	Sneha Karmakar		
42	Soumik Dey Sridar		
43	Souvik Ghosh		
44	Subham Sen		
45	Subhra Das	Daranda Village, Birbhum	Dr. Jayant Kumar Chatterjee (9434021179) & Dr. Narayan Chandra Sarkar (8420623442) Village facilitator: Partha Mal (8926536411) Student representative: Suvanjan Patar (6296055734)
46	Sumana Biswas		
47	Suraj Kumar Ghosh		
48	Susmita Ghosh		
49	Suvanjan Patar		
50	Swagata Kotal		
51	Swapan Hembra		
52	Tapan Chandra Roy		
53	Uddalak Das		
54	Uttam Baidya		

Allotment of Agro-Industrial Attachment

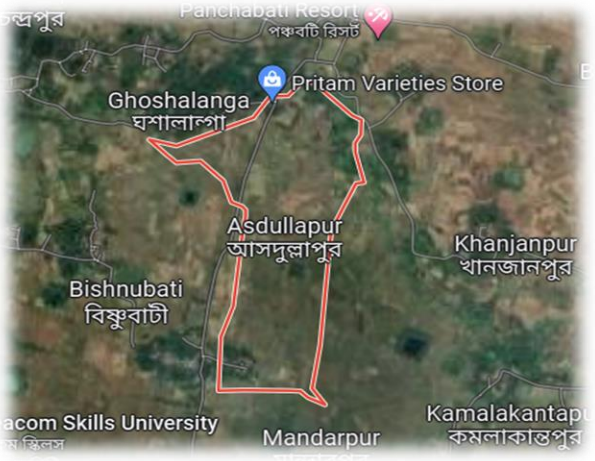
The four week agro-industrial training programme was carried out in the beginning of the RAWE and AIA programme. Students were allotted to different Agro-Industries located in different parts of the West Bengal and in neighbouring states such as Jharkhand and Bihar. Couple of students originally belonged to Bangladesh preferred to carry out their Agro-industrial attachment in Bangladesh. However, each medium to large industries were allotted to an individual student.

Table 2: List of agro-industry allotment

Sl. No.	Name of the student	Agro-Industry Attachment
1	Abhijit Ghosh	Puffed Rice Mill, Gopalpur
2	Abhishek Roy	Vikas-Agri Tech Pvt. Ltd, Illambazar
3	Anindita Maity	Trinath Modern Atta Mill, Abdarpur, Suri, West Bengal
4	Ankita Sarkar	Vivekananda Agro Products Pvt Ltd., Sian , Bolpur Birbhum
5	Arindam Pal	INDUSTRY-Maa Kali Oil Mill, North 24 Parganas
6	Aritabha Kole	*GMS Agritech Private Limited, Illambazar*
7	Arpita Saha	Shree Durga Puffed Rice Mill, Bandhgora, Bolpur
8	Atashi Roy	Bimal Oil Mill, Raniganj, Paschim Bardhaman
9	Bibhash Nayak	Shamsi Tea Factory, Ramganj, Uttar Dinajpur, West Bengal 733207
10	Bijoy Hansda	Srijani Green Producer Company Ltd. Kadaamhir, Mohammad Bazar
11	Briti Sil	Raiganj Flour Mill , Raiganj , North Dinajpur
12	Chaitali Karmakar	Khandelwal Flour Mill, Kusinda, Dhanbad
13	Dipankar Bagdi	Bhattacyarya Seed Farm, Gumta, Birbhum
14	Geetikirti Sahoo	Gita's Food Product, 1398/1206, Old Malda Road, Banchamari, Malda
15	Ishani Kandari	Bidhan Chandra Krishi Vikash Producer Company Ltd., Jamtala, Belpukur, South 24 Parganas
16	Jatindra Nath De	Kalyani Seed Farm, Rasul Rd., Biur, West Bengal 722206
17	Krishnakali Roy	Gopalpur Tea Estate, Birpara, Alipurdar
18	Maheswar Dey	Shamayita Math, Ranbahal Amarkanan, Bankura, West Bengal
19	Meghna Garai	Mayurakshi Cooperative Milk Producers Union Ltd, Sian
20	Mrinmoy Das	Priyo Gopal Muri Mill, South 24 Parganas
21	Nihar Ranjan Rakshit	Kamal Muri Mill, Muluk, Gayeshpur
22	Paramita Mandal	Gour Hari Cashew Processing, Contai, Purba Medinipur
23	Partha Boyra	Shaktiman Foods, Bakreswar Road, Ranjan Bazar, Dubrajpur,
24	Partha Das	Chandanpur Tea Factory, near Kalibari market, Islampur, Uttar Dinajpur, 733202
25	Piyali Pal	Dharmdasi Dal Mill, Kirnaher, Birbhum
26	Prasun Kumar Dey	Vermicom - Medinipur Nature Friends Organic Fertilizer Pvt. Ltd , Lapuria
27	Prianty Chakraborty	Aporup Auto Rice Mill, Forkerhat, Rajarhat, Bangladesh
28	Pritha Saha	Bharat Mata Oil Mill , Sainthia

29	Priyojit Sarkar	Vanalakshmi Unmesh Samiti, Dwaranda, Birbhum
30	Puja Chowdhury	Joy Bharat Oil Mill Pvt., Kacharipatty, Birbhum
31	Rajdeep Das	Gairkhata Tea Estate, Gairkhata, Jalpaiguri
32	Rani Patra	Nilachal Oil Mill, Haroa, North 24 Praganas
33	Ranjita Panja	Shri Shyam Agro-Biotech Private Limited, RANIGANJ
34	Rishita Sen	Kochkunda Afrofarming Pvt. Ltd.
35	Samriddhi Samaddar	Sri Krishna Pulse Mill , Bamunpara More
36	Sayanti Ghosh	Baranagar Jute Factory Plc 284, Maharaja Nanda Kumar Rd, Alambazar, Ashokgarh, Kolkata
37	Shrabasti Sikder	Goutam Oil Industries, Rudranagar, Sainthia, Birbhum
38	Shreya Barui	Bishalaxmi Oil Mill, Vidyanagar, Kakdwip
39	Shreyasi Samaddar	M/S Gorai Oil Mill, 40, N.S.B. Road, Raniganj
40	Sk Moinuddin	Joy Gopal Oil Industries, Sainthia-Suri Rd
41	Sneha Karmakar	Nayak Baba Freezing Enterprise Pvt. Ltd., Somaipur, Guskara
42	Soumik Dey Sridar	Anadi Oil mill Pvt. Ltd. Ramsagar, Bankura
43	Souvik Ghosh	Copila Milk, Rohia, Kharua, Hooghly, West Bengal
44	Subham Sen	Sashyashree Agri. Processing Pvt. Ltd., hooghly
45	Subhra Das	Bengal milk processing PTV. Ltd, Budwan
46	Sumana Biswas	Sonali Seed Farm, Kochdihi, Sonamukhi, Bankura
47	Suraj Kumar Ghosh	Bhooshakti Farm, SURJI AGRO FOODS PVT LTD. Bahiri
48	Susmita Ghosh	Hazi Abdur Rahim Flour Mills, Notun Vanga Bari Road, Srirajganj
49	Suvanjan Patar	Surya Agro Products Pvt. Ltd., Golpalnagar, Bolpur
50	Swagata Kotal	Milk Processing Industry, College More Ard Campus, Bankura
51	Swapan Hembra	Astami Oil Mill, Gangarampur ,Dakshin Dinajpur
52	Tapan Chandra Roy	Kumarika Tea Garden, Kalanagin , Islampur, Uttar Dinajpur
53	Uddalak Das	State Dairy, Krishnanagar, NH 34, Krishnanagar, Nadia
54	Uttam Baidya	Rasel Auto Rice Mills, Poisharhat, Bangladesh

Village Attachment



Brief work flow

In the 1st week, the students looked over the whole village and collected some general information about the village and family status of farmers and their cropping pattern etc.

In the 2nd week, for horticultural interventions the students have collected the information about common fruit, vegetables and flower crops cultivated by farmer. Also collected the data about kitchen garden in details.

In the 3rd week of Agronomical Intervention, the students have collected different data about method of crop production, sowing parameters, nutrient management, water management, weed management of different field crops like rice, mustard etc. They are mainly depending on rice crops and very few farmers are cultivated mustard and potato etc.

In the 4th week, the students have learned about insect diversity, PD ratio, disease severity index etc. They tried to identify various pest and disease problems faced by the farmers and also gained experience on how they are using different plant protection measures to control them. Objective of this study was to get familiarized with distribution patterns of insects in paddy ecosystem.

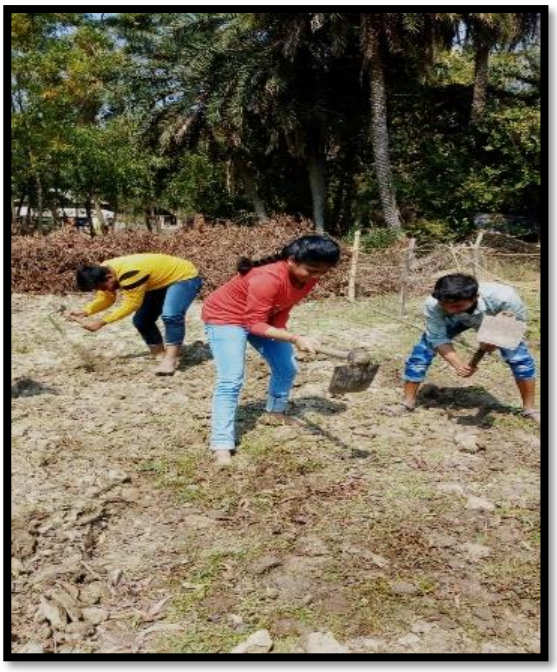
In the 5th week, the students have studied about the major cropping system followed by the farmers and trends of different agrochemicals used in the field crop. They also studied about different biofertilizer, micronutrients, organic manures, others supplement used by the farmers of the village. we have collected information about the method of preparation of FYM and vermicompost followed by the farmers. Some soil samples were also collected from the village and tested the pH, EC and texture of the sample in the soil testing laboratory.

In the Sixth week work, there were five components. These are-A) Food Processing, B)Farm Mechanization, C)Irrigation System, D) Soil & Water Conservation System, E) Renewable energy.

Under Animal Production Interventions, the students collected the information of livestock on various aspects i.e. daily maintenance and feed expenses, milk production, milk disposal, animal products and poultry birds, etc. They have also give suggestions to the farmers to improve the livestock management system.

In this las week the major works were, A) Communication Pattern of Villagers regarding Agricultural Information, B) Perception of farmers regarding field-level constraints, C) Mobility Mapping of Villagers (Venn diagram), D)Status of village resources, E) Seasonality diagram of the village, F) Role and importance of village level institutions & organizations, G) Timeline of agricultural technologies adopted in the village, H) SWOT analysis of the village.









Land preparation



Weighing soil sample



Grinding & mixing of soil sample



Sieving of soil



Measurement of soil EC



Texture analysis



Measurement of pH

Soil analysis technique



Spilanthes acmella



Cyperus difformis



Rice blast



Insects

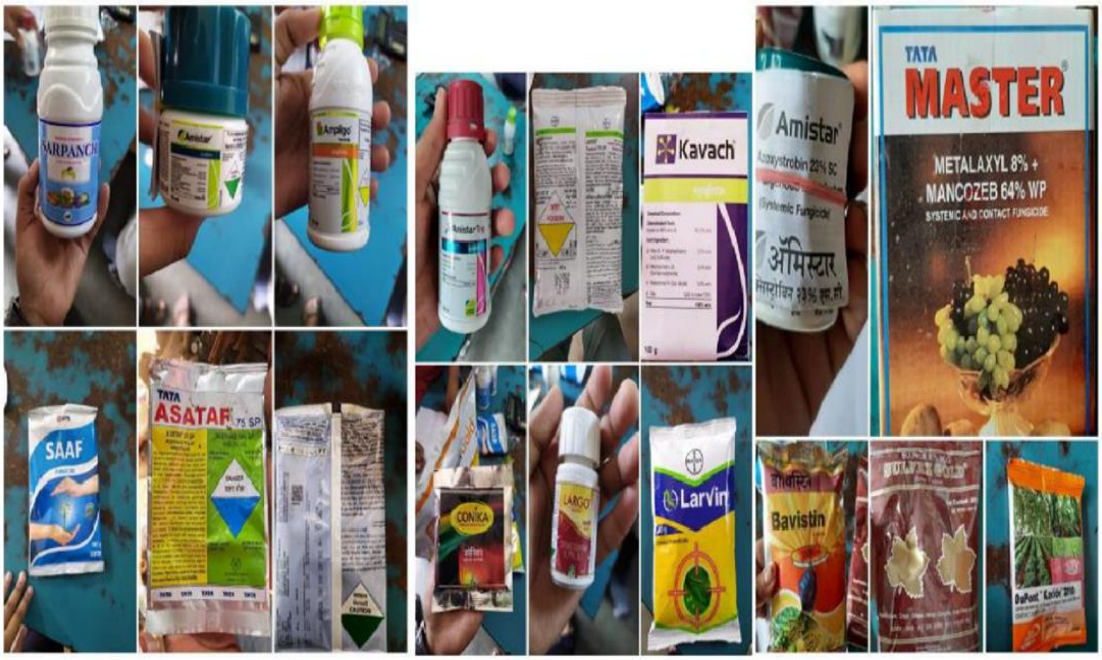


Yellow stem borer



Onion downy mildew

Different pest and diseases



Different chemicals used for crop protection





Field work



Brinjal crop

Tomato crop



Onion crop



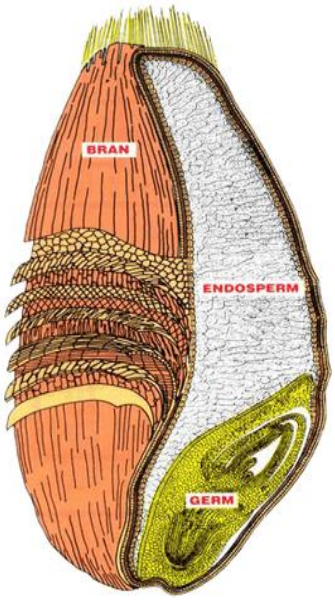
Chilli



Coriander



Papaya fruit

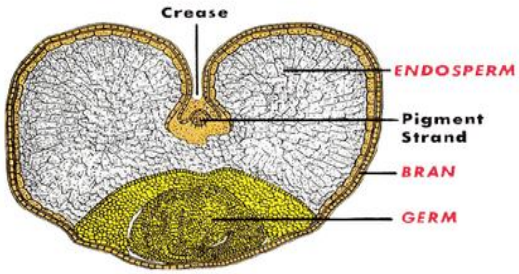




Bran



Fine white flour



Wheat grains structure

Farm mechanization and storage structure



Morai structure



Submersible



Ber pickle



Mango pickle



Cagewheel



Paddy Thresher



Rotavator





Khurpi, sickle and spade

Animal rearing











Demonstration Programme







Demonstration programme in Asadullapur, Birbhum

KVK Attachment

Mandate of Rathindra KVK

- To achieve the mandate effectively, the following activities are conducted by the RKVK--
- On-farm testing to identify the location specificity of agricultural technologies under various farming systems.
- Frontline demonstrations to establish its production potentials on the farmers' fields.
- Training of farmers and extension personnel to update their knowledge and skills in modern agricultural technologies.
- Organize extension activities to create awareness about improved agricultural technologies to facilitate fast diffusion and adoption of technologies in agriculture and allied sectors.

National programmes implemented by Rathindra KVK viz.:

- Soil Health Card
- Doubling Farmers' Income by 2022
- Pradhan Mantri Fasal Bima Yojana (PMFBY)
- Pradhan Mantri Krishi Sinchai Yojana (PMKSY) (More crop per drop)
- Kisan Credit Card (KCC).
- Swacchata activities (segregation of biodegradable and non-biodegradable wastes, emphasis on
- Vermicomposting and NADEP composting
- CFLD on pulses and oilseeds



Rathindra Krishi Vigyana Kendra (RKVK)



Azolla Unit



District Agro-met Unit



Oilseed Production Unit



Fishery Pond



Mango Orchard



Mushroom Unit



Bee-keeping Unit



Museum Plot With Micro-irrigation



Vegetable Plot



Bio floc



Dragon fruit Demonstration Unit



Machinery Unit



Low Cost Shade-net House



Medicinal Plant Unit



Vermicompost Unit

Activities at Rathindra KVK, Sriniketan



Vermicompost preparation



Azolla production

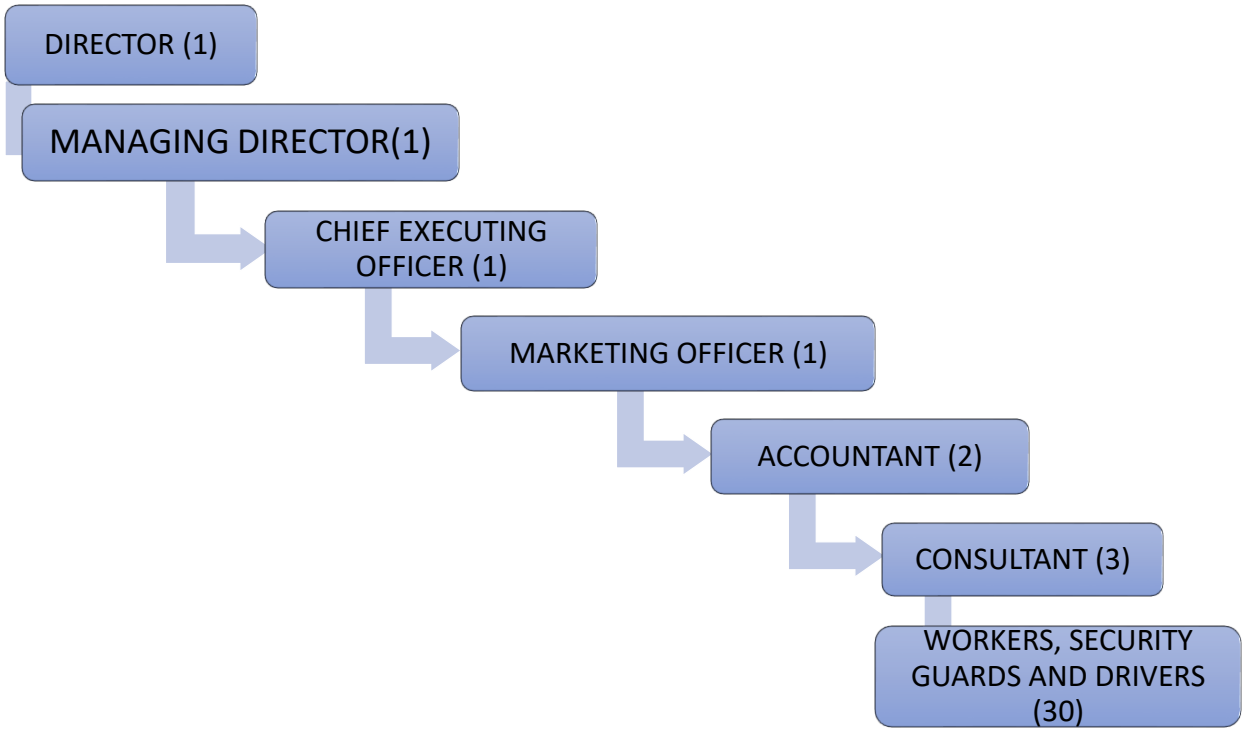








Agro-Industrial Attachment



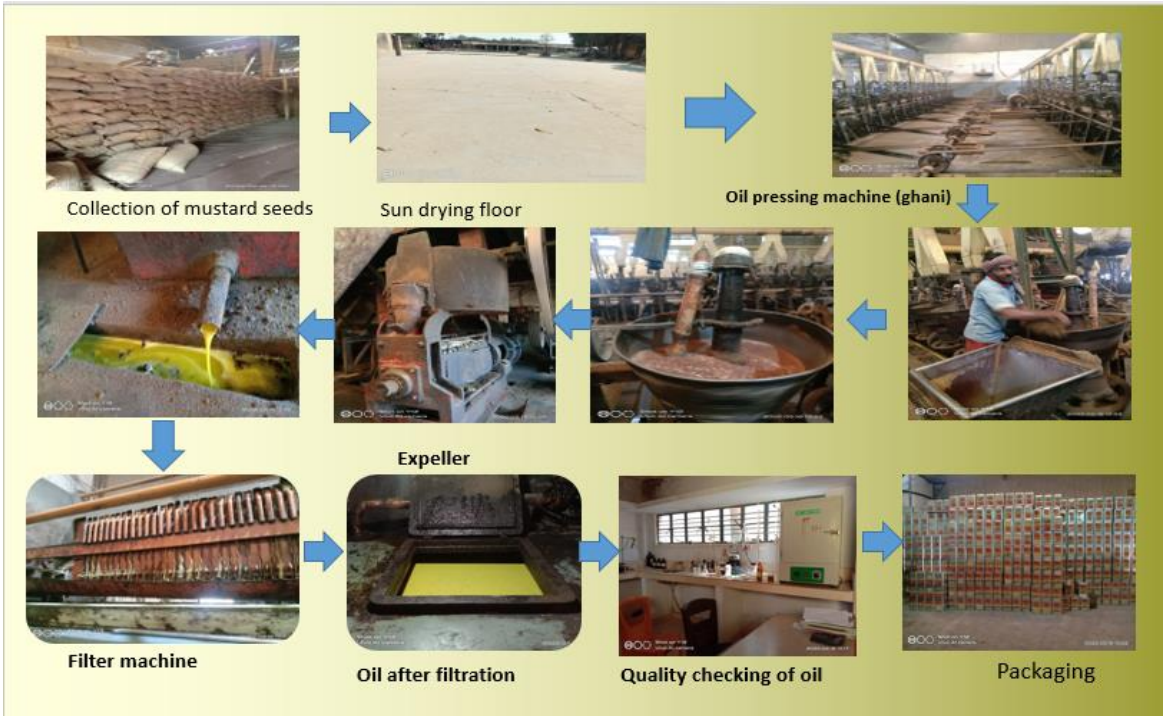
Company set up of an Agro-Industry



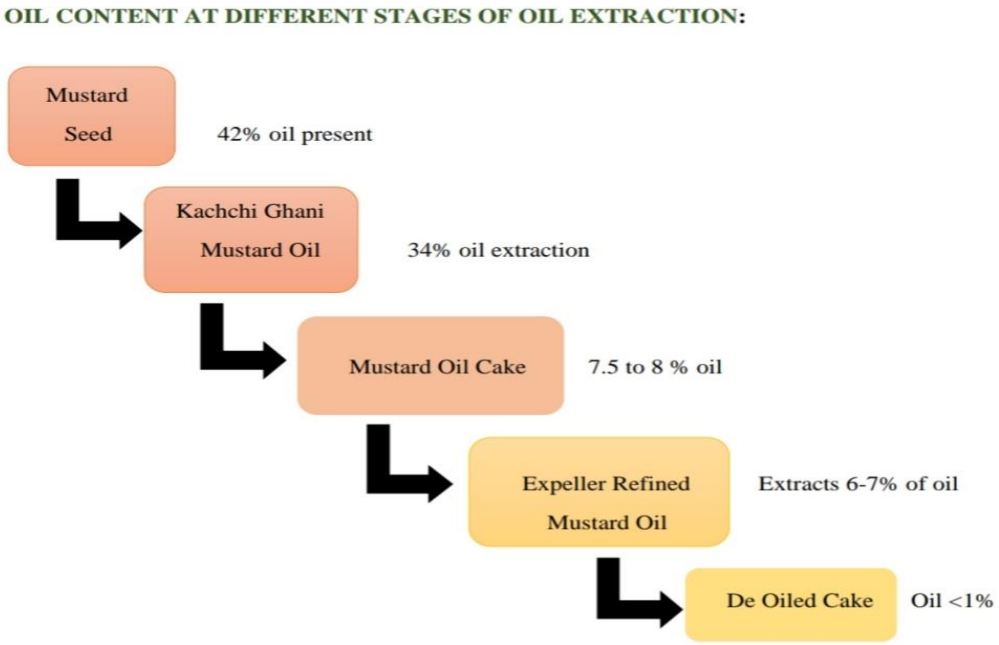
Tea Processing at Gairkhata Tea Estate, Gairkhata, Jalpaiguri



Tea processing at Shamsi tea company Pvt. Ltd., Ramganj, Uttar Dinajpur, W.B.



Mustard oil processing unit, Vivekananda agro products, Sian, Birbhum



Oil content at different stages of oil extraction





Stages of milk processing



Khoya



Paneer

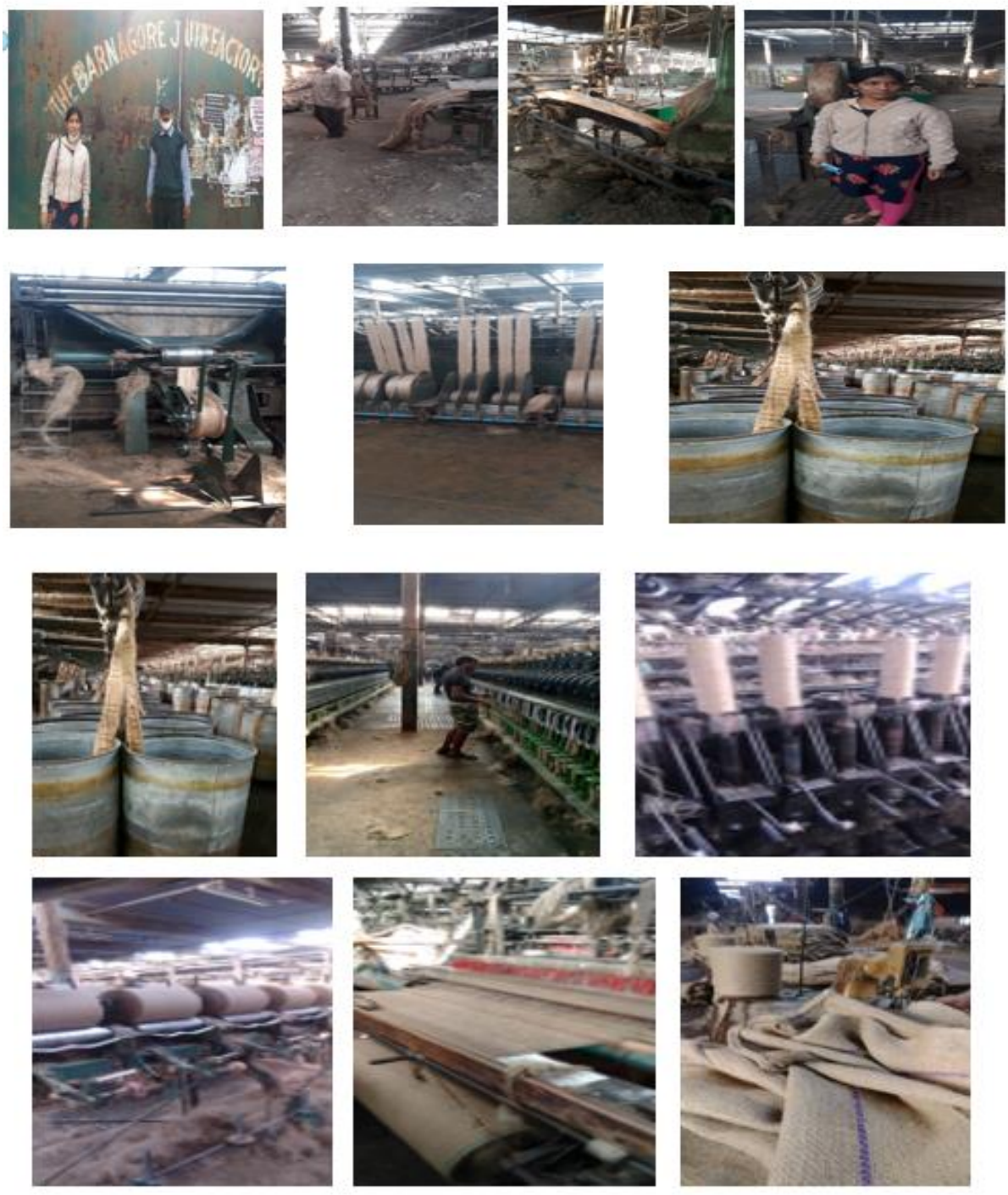


Curd



Lassi

Milk products



Stages of jute processing, Alambazar, Kolkata



Spike cutter



Gravity separator



Seed size grader



Pre cleaner

Seed Processing Unit, Amarkanan, Bankura, West Bengal



Automatic cashew nut shelling machine



Sorting machine



Tray drying



Cashew grading

Cashew nut processing unit, Mohammad Bazar, Birbhum



Circular rotary screen



Cleaning and removal of dust



Packaging area of pulse



Bagging of processed pulse

Pulse processing operation, Kirnaher , Nanoor, Birbhum

Positive Aspects of Agro Industries

- Use of modern Equipment for processing.
- High level of precautionary measured maintained.
- Only Agro based industry in the Industrial belt of Raniganj.
- Providing Raw materials for more Value Addition to many allied sectors.
- Provding job opportunities.
- Quality control and Food safety measures followed as per the FSSAI guidelines.

Negative aspects of Agro-Industry

- Modern machineries cutting down the jobs of unskilled labourers.
- The wages are not at par the workload.
- Representation of female workforce is discouraging.
- Lack of maintenance of proper records and balance sheets of the firm.

Performance Evaluation

1. KVK/Village attachment
    a. Assessment by Teacher in-charge
        i. Teacher in charge (components) [03 Marks each for 8 units=24 Marks]
        ii. Teacher in-charge (KVK/Research station) 06 Marks

    Total Assessment by Teacher in-charge (24 marks+06 Marks) ***30 Marks***

    b. Report submission **20 Marks**
    c. Presentation & Viva-voce **20 Marks**

2. Industrial attachment training (AIA)
    a. Assessment by Teacher in-charge **10 marks**
    b. Report submission **20 Marks**
    c. Presentation & Viva-voce **20 Marks**

Sub-total Assessment of RAWE & AIA 20 credits **100Marks**

	Items	Distribution of marks	Total Marks
1.	**KVK/Village attachment**		
A.	Assessment by Teacher in-charge		
	i. *Teacher in charge (components)*	*[03 Marks each for 8 units=24 Marks]*	
	ii. *Teacher in-charge (KVK/Research station)*	*06 Marks*	
	Total Assessment by Teacher in-charge	*(24 marks+06 Marks)*	**30 Marks**
B.	Report submission		**20 Marks**
C.	Presentation & Viva-voce		**20 Marks**
2.	**Agro-Industrial attachment training (AIA)**		
A.	Assessment by Teacher in-charge		**10 Marks**
B.	Report submission		**10 Marks**
C.	Presentation & Viva-voce		**10 Marks**
Sub total		**(20 Credits)**	**100 Marks**

Photographs: Student at Villages















Photographs: Students at Agro-Industries



















