Report
on
Rural Agricultural Works Experience
&
Agro-Industrial Attachment









"If agriculture goes wrong, nothing else will have a chance to go right"

-M.S.Swaminathan

Palli Siksha Bhavana (Institute of Agriculture),
Visva-Bharati (A Central University),
Sriniketan, Birbhum, West Bengal
2022-2023



"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."

Rabindranath Tagore

Compiled by

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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.(Hons) Agriculture 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. (Hons) Agriculture 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. Farm Mechanization and Food Processing 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.

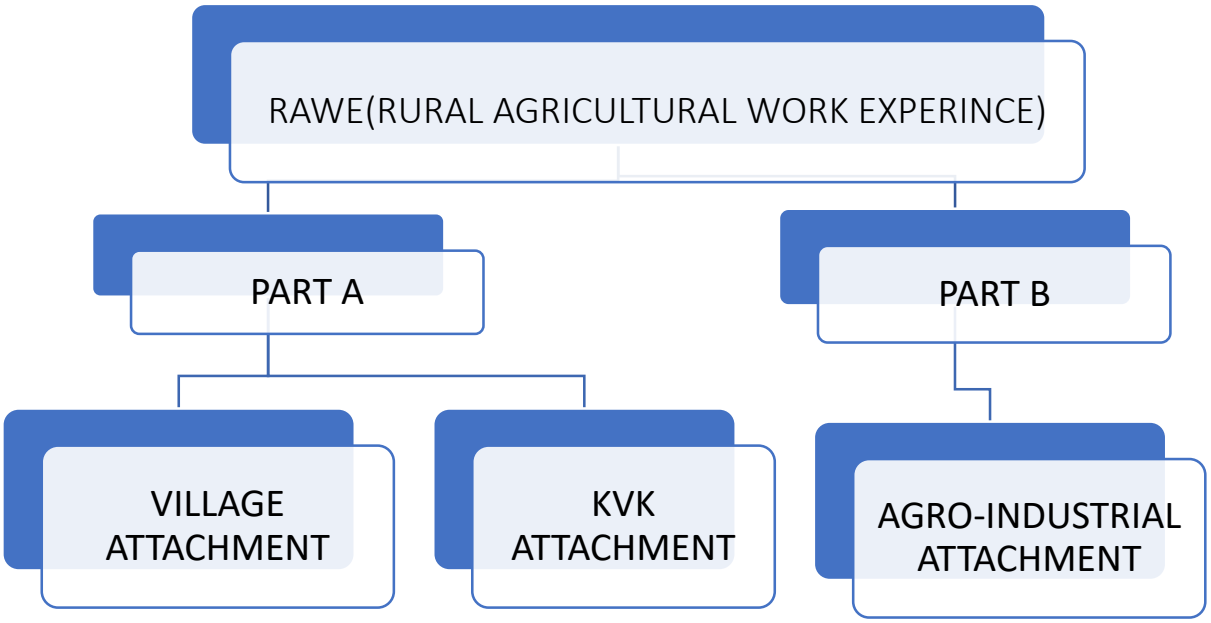
9. Agro-Industrial Attachment

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 five weeks long.

Programme Schedule



Class schedule RAWE & AIA

Sl No.	Time schedule	Component description	Lead Faculty
1.	04th August – 17th August, 2022 (02 Week)	KVK/Research station attachment	Dr. Anindita Saha (Dept. of Agril. Extension) Dr. S. Mandal Rathindra KVK
2.	18th August - 24th August, 2022 (01 Week)	Orientation Classes	HoDs and Departmental Representatives
3.	25th August -31st August, 2022 (1 Week)	Soil improvement interventions	Dr. Pabitra K. Biswas (Dept. of Soil Sc. &Agril. Chem.)
4.	01st September -07th September, 2022 (1 Week)	Farm mechanization and Food processing intervention	Dr. L. Hangshing (Dept. of Agril. Engineering)
5.	8th September - 14th September, 2022 (1 Week)	Animal production intervention	Dr. Jayanta K. Chatterjee (Dept. of Animal Science)
6.	15th September – 21st September, 2022 (1 Week)	Extension and transfer of technology	Dr. Darshan N. P. (Dept. of Agril. Extension)
7.	22nd September – 19th October, 2022 (04 Week)	Agro-Industrial attachment	Prof. D. Sarkar (Dept. of Agril Economics)
8.	20th October – 26th October, 2022 (1 Week)	KVK/Research station attachment	Dr. Anindita Saha (Dept. of Agril. Extension) Dr. S. Mandal RKVK
9.	27th October -2nd November 2022 (1 Week)	Survey of Villages	Mr. S. Gorain (Dept. of Agril Economics)
10.	03rd November – 09th November, 2022 (1 Week)	Agronomical intervention	Dr. P. Ghosh (Dept. of Agronomy)
11.	10th November – 16th November, 2022 (5 Weeks)	Fruit and vegetable production	Dr. Prahlad Deb (Dept. of Horticulture& Post-Harvest Tech.)
12.	17th November-23rd November, 2022	Plant protection intervention	Dr. Bholanath Mondal And Dr.(Ms.) S. Bhattacharya (Dept. of Plant Pathology & Agricultural Entomology)

13.	24th November – 07th December, 2022 (2 Weeks)	KVK/Research station attachment	Dr. Anindita Saha (Dept. of Agril. Extension) Dr. S. Mandal RKVK
14.	08th December– 14th December, 2022 (1 Week)	Report preparation and Internal Evaluation	Dr. A. Saha, Dr. K.C. Swain, Prof. D. Sarkar, Dr. Y.V. Rao
15.	15th December-21st December, 2022 (1 Week)	Final Examination	Dr. A. Saha, Dr. K.C. Swain, Prof. D. Sarkar, Dr. Y.V. Rao and all lead Faculty members

Class distribution of Orientation programme

Dates	Time Schedule		
	9:30am-11:30am	11:30am-01:30pm	02:30pm-04:30pm
18th August, 2022	Dept. of Agril. Statistics	Dept. of Soil Science & Agril. Chemistry	Dept. of Agril. Economics
22nd August, 2022	Dept. of Horticulture & PHT	Dept. of Plant Pathology	Dept. of Agril. Extension
23rd August, 2022	Dept. of Animal Science	Dept. of Agril. Engg	Dept. of Agronomy
24th August, 2022	Dept. of Agril. Entomology	Dept. of Crop Physiology	Dept. of Genetics and Plant Breeding

Village Attachment of the Students

Students were allotted five villages around the Palli Siksha Bhavan, Visva-Bharati, Sriniketan. There was a village facilitator for each village as well as a student representative.

Sl. No.	Student Name	Village	Village facilitator
1.	Partia Roy	Kartikdanga	Sri Bipadtaran Ghosh
2.	Akshay Kumar Kundu		
3.	Animesh Ghosh		
4.	Anindita Chatterjee		
5.	Ankita Majumdar		
6.	Arnab Laha		
7.	Arpan Roy		
8.	Baibhab Ghosh		
9.	Bidarshi Maji		
10.	Jyoti Patra		
11.	Bishal Dey		
12.	Darshan Dutta (CR)		
13.	Debanjan Ghosh		
14.	Mitadru Chatterjee	Kankutia	Sri Abdul Mazid
15.	Deepjyoti Sen		
16.	Dibyendu Seth (CR8919100197)		
17.	Disha Chattopadhyay		
18.	Sourish Pramanik		
19.	Gopinath Garai		
20.	Debottam Bhattacharya		
21.	Pronomita Ghosh		
22.	Kalo Mardi		
23.	Kaushik Kr Das		
24.	Krishnendu Dutta		
25.	Lopamudra Roy		
26.	Md Saddam Hosen		
27.	Mintu Barman		
28.	Dechen Sherpa	Bahadurpur	Sri Biswanath Ghosh
29.	Mukesh Mahato		
30.	Nayan Ghosh		
31.	Nisha Ghosh		
32.	Nishat Tasnim		
33.	Akash Mondal (CR)		
34.	Sonali Shil		
35.	Pathik Sutradhar		
36.	Prabhati Hansda		
37.	Prosonna Biswas		
38.	Prothama Sarker Onti		
39.	Rahul Dey		
40.	Raju Halder		
41.	Rashadin Md Bodeul Ddoza	Bergram	Sri Sukanta Ghosh
42.	Ratan Barkuni		

43.	Sabyasachi Kundu		
44.	Samir Hansda		
45.	Joyee Pandey		
46.	Sangram Ghosh		
47.	Subhashree Paul		
48.	**Sayan Banerjee (CR)**		
49.	Uma Baidya		
50.	Shreya Saha		
51.	Shyam Sundar Roy		
52.	Snehangsu Saha		
53.	Bishakha Mondal		
54.	Parimita Mondal		
55.	Soumajit Sinhamahapatra	Bishnubati	Sri Tapan Ghosh
56.	Soumendra Bhuimali		
57.	**Soumili Bera (CR)**		
58.	Soumyadeep Ghoshal		
59.	Soumyadip Mondal		
60.	Sanchari Adhikari		
61.	Gobinda Mondal		
62.	Subhas Chandra Chanda		
63.	Sankhadeep Dawn		
64.	Sudip Sar		
65.	Trisha Majumder		
66.	Udit Debangshi		
67.	Seema Tudu		
68.	Upasana Nanda		

Village attachment faculty visit schedule

Sl No.	Date	Name of the Faculty
1	25.08.2022	Class at Palli Siksha Bhavana (Soil Improvement interventions)
2	26.08.2022	Prof. Amitava Paul Dr. Kishore C. Swain
3	29.08.2022	Prof. Paresh Chandra Kole Dr. Narayan Chandra Sarkar
4	30.08.2022	Prof. Ganesh Chandra Malik Dr. Sandip Debnath
5	31.08.2022	Dr. Nihar Ranjan Chakraborty Mr.Subrata Gorain
6	01.09.2022	Class at Palli Siksha Bhavana (Farm Mechanization and Food Processing Intervention)
7	02.09.2022	Prof. Debashis Sarkar Dr. Arti
8	05.09.2022	Dr. Sananda Mondal Dr Bitan Mondal
9	06.09.2022	Dr Kalipada Pramanik Dr. Swarnali Bhattacharya
10	07.09.2022	Dr. (Mrs.) Mahua Banerjee Dr. Umalaxmi Thingujam
11	08.09.2022	Class at Palli Siksha Bhavana (Animal Production Intervention)
12	09.09.2022	Dr. (Mrs.) Suchhanda Mondal Dr. Darshan N. P.
13	12.09.2022	Dr. Bholanath Mondal Mr. Vivek Kumar Khare
14	13.09.2022	Prof. Buddhadeb Duary Dr. Vasudeva Y Rao
15	14.09.2022	Dr.Pabitra Kumar Biswas Dr. Pritam Ghosh
16	15.09.2022	Class at Palli Siksha Bhavana (Extension of transfer of technology)
17	16.09.2022	Prof. Binoy Kumar Saren Dr. Mohan Kumar Biswas
18	19.09.2022	Dr. P. Kandsamy Dr Prahlad Deb
19	20.09.2022	Prof. Ranjan Nath Dr. Manik Chandra Kundu
20	21.09.2022	Prof. Goutam Kumar Ghosh Dr. Palash Mondal
21	27.10.2022	Class at Palli Siksha Bhavana (Survey of Village)
22	28.10.2022	Dr. Jayanta Kumar Chatterjee Dr Digvijay Singh Dhakre
23	31.10.2022	Prof. Siddhartha Deb Mukhopadhyay Dr. Kader Ali Sarkar

24	01.11.2022	Prof. Souvik Ghosh Dr. Debasish Panda
25	02.11.2022	Dr. Anindita Saha Dr Lamneithem Hangshing
26	03.11.2022	Class at Palli Siksha Bhavana (Agronomical Intervention)
27	04.11.2022	Dr Goutam Mandal Dr. Sandip Debnath
28	07.11.2022	Prof. Bidhan Chandra Roy Dr Kader Ali Sarkar
29	08.11.2022	Prof. Hirak Chatterjee Dr Digvijay Singh Dhakre
30	09.11.2022	Prof. Debasis Bhattacharya Mr. Vivek Kumar Khare
31	10.11.2022	Class at Palli Siksha Bhavana (Fruit and vegetable production)
32	11.11.2022	Dr. Swapan Kumar Maity Dr. Nihar Ranjan Chakraborty
33	14.11.2022	Dr Bitan Mondal Dr. Arti
34	15.11.2022	Dr. Debasish Panda Dr Lamneithem Hangshing
35	16.11.2022	Dr. Sananda Mondal Dr. Umalaxmi Thingujam
36	17.11.2022	Class at Palli Siksha Bhavana (Plant protection intervention)
37	18.11.2022	Dr. Joydip Mandal Mr.Subrata Gorain
38	21.11.2022	Prof. Snehasish Chakraborty Dr. Darshan N. P.
39	22.11.2022	Dr. Anindita Saha Dr. Vasudeva Y Rao
40	23.11.2022	Prof. Arun Kr. Barik Dr. Kishore C. Swain

Activities During Village Attachment

Information of the villages

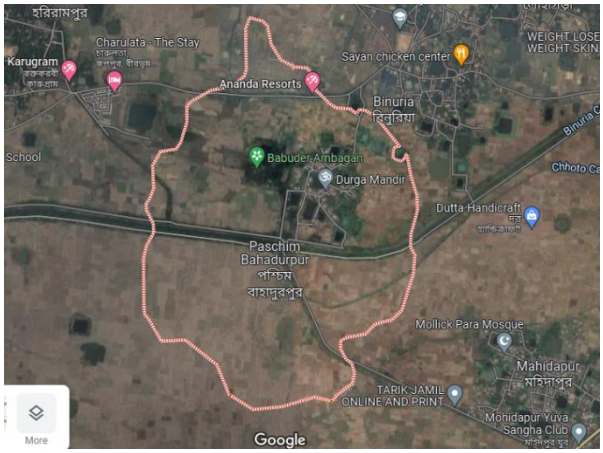
Bergram village

Bergram is a medium sized village located in BolpurSriniketan Block of Birbhum district, West Bengal with total 65 families residing. The Bergram village has population of 1737. Bergram village has lower literacy rate compared to West Bengal. In 2011, literacy rate of Bergram village was 61.88% compared to 76.26 % of West Bengal. In Bergram Male literacy stands at 71.90% while female literacy rate was 51.82%.

Bishnubati village

The is located in Bolpur Sriniketan subdivision of Birbhum district in West Bengal, India Kasba is the gram panchayat of Bishnubati village. The total geographical area of village is 116.97 hectares. Bishnubati has a total population of 691 peoples, out of which male population is 347 while female population is 344. Literacy rate of bishnubati village is 52.68% out of which 58.79% males and 46.51% females are literate.

Bahadurpur village



It is located in Bolpur Sriniketan subdivision of Birbhum district in West Bengal, India. It is situated 5.3km away from sub-district headquarter Sriniketan (tehsildar office) and 34.8km away from district headquarter Suri. As per 2009 stats, Ruppur is the gram panchayat of Bahadurpur village.The total geographical area of village is 207.13 hectares. Bahadurpur has a total population of 753 peoples, out of which male population is 385 while female population is 368. Literacy rate of Bahadurpur village is 65.47% out of which 70.39% males and 60.33% females are literate. There are about 170 houses in Bahadurpur village.

Kankutia village



The Kankutia village is a big sized village located in Bolpur Sriniketan subdivision of Birbhum district in West Bengal. Total geographical area of the village is 393.41 ha, total cultivable land area is 372.86 ha, non-agricultural land area is 20.55 ha, total irrigated area is 372.02 hectares and total rainfed area is 0.84 ha.

According to census 2011, it has population of 1752 peoples, out of which male population is 911 while female population is 841. There are about 424 houses in the village. The village has lower literacy rate compared to West Bengal. In 2011, literacy rate was 67.24% compared to 76.26 % of West Bengal. Male literacy stands at 73.23% while female literacy rate was 61.83%.

Kartikdanga Village

The village is situated 7.8km away from sub-district headquarter Sriniketan (tehsildar office) and 53.2km away from district headquarter Suri and 11.1 KM from Illambazar. Total area of Kartikdanga is 121 hectares. Total cultivable land 117.50 hectares and total Non-cultivable land is 4.5 hectares. Total irrigated area for farming is 86.51 hectares. Total unirrigated area 30 hectares, Total population is 215 of which 116 are male and 99 are female with total number of family 52. Total literacy rate is 74.5 %.

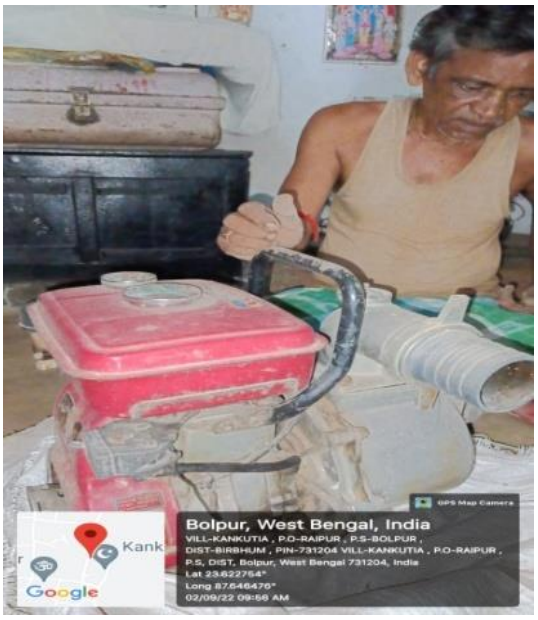
Soil Improvement studies

Under this component, the students have studied fertilizer schedule, Integrated Nutrient Management (INM) and its importance in soil quality improvement. The students have also studied soil salinity, alkalinity and acidity and its reclamation. They have also collected data about the use of various agrochemicals like chemical fertilizer, pesticides etc. They have collected the soil samples from the field and tested pH, EC and texture of this soil samples.









Soil sample collection and testing

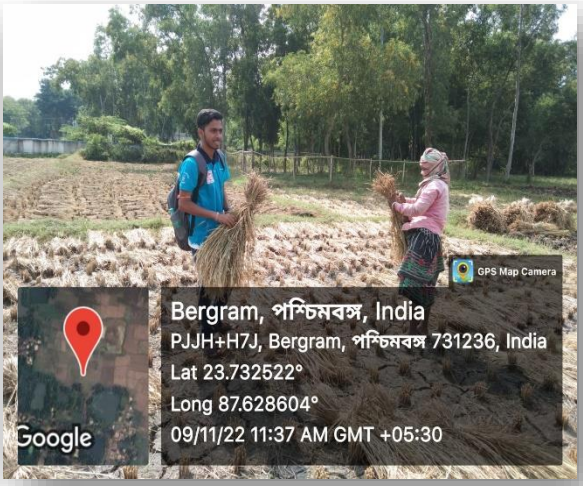
Major soil properties

- ❖ Soil are acidic in nature
- ❖ EC in the normal range.
- ❖ Sufficient in nutrients like Potasium (K),
- ❖ Marginally sufficient in Zinc (Zn),
- ❖ Deficient in Phosphorous (P), Sulphur (S)
- ❖ Contents of Iron (Fe) and Copper (Cu) are very high

Agronomical Interventions

Main Cropping System - Rice - rice – fallow & Rice - mustard-fallow in Bishnubati and surrounding village. The students witnessed and gathered some information about land preparation, irrigation, nutrient management, harvesting and storage.





Rice cropping in the village

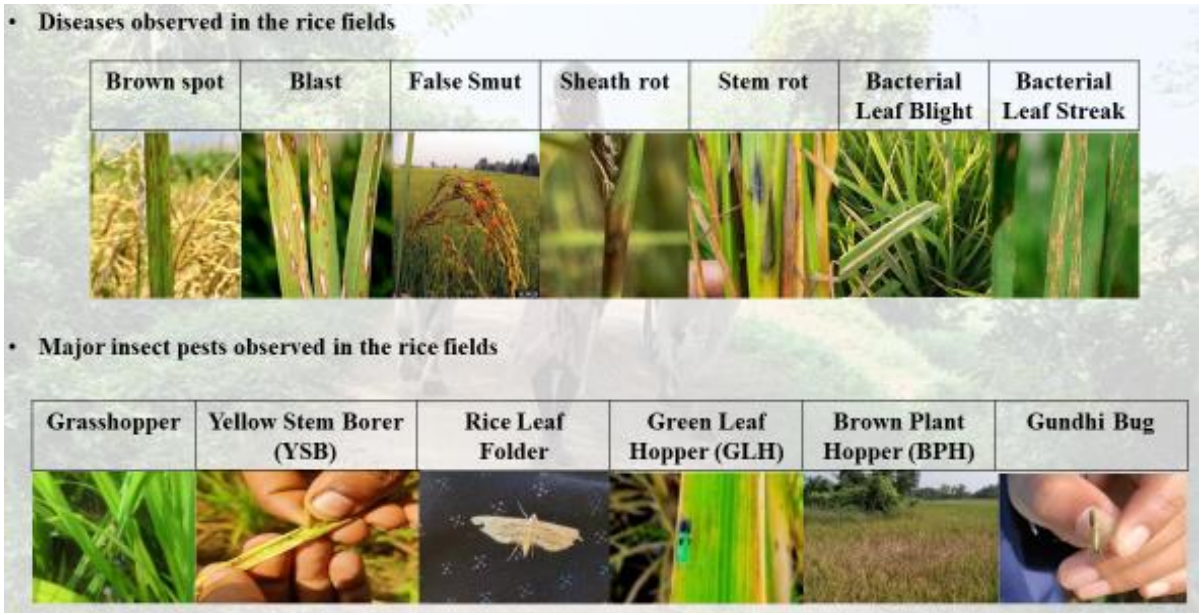
Basic information of rice crop

- Variety : Swarna (140-145 days) , ir-36 (105 days) , dunkel
- Growing seasons : kharif (aman; sown: June-July), rabi (boro;s own- Nov -1st week of January)
- Seed rate : 6-8 kg/bigha (sri), 20 kg/bigha (others)
- Land and soil type : lowland & clayey loam
- Nursery management : 1 tonne fym (after dry ploughing twice), 40 kg dap/16 kg urea & 120 kg ssp (after 2 puddlings) ; cowdung (om) ; 10:26:26 npk & dap @ 1 kg/katha are broadcasted
- Land preparation: 2-3 times ploughing with tractor driven rotor, levelling by laddering, 10-12 quintals well rotten cowdung is applied.
- Transplanting: mid-Feb (rabi) August (kharif) . For 1 bigha land generally 4-5 labourers are needed. Spacing: kharif : 15 x 15 cm or 15 x 20 cm. Rabi : 15 x 10 cm.
- Water management: 10-12 irrigations; withdrawn at 70-80 DAT critical stages are –pi, flowering, heading. Sources: tubewell, submersible, farm ponds.

- Weed management: hand weeding.
- Yield: 1 bigha (0.133ha) gives 600-840 kg yield (max. 14 basta). From 1 basta (50 kg) farmer gets Rs. 820.

Plant protection intervention

The attack of yellow stem borer (YSB), leaf folder (LF), gundhi bug, brown plant hopper (BPH), green leaf hopper (GLH), and grasshopper (GH) are mainly found in the kharif rice ecosystem of Kankutia village and among them the population of green leaf hopper (GLH) is the most/highest. The pest-defender ratio obtained is quite good. The species diversity is moderate to high in the village. A low disease incidence is observed in the village.



Major pests and diseases in rice crop

Fruit and vegetable crop interventions

Cultivation of vegetables, flowers, spices, fruit trees, etc. is extensive in homestead gardens (About 45%).A few farmers are interested for commercial cultivation of fruits (5 mango & 1 jackfruit orchard). Majority take-up vegetable cultivation to meet their family requirement. Theft of crops, one of the major concerns, followed by Insect pest & labor cost.













Vegetable crops in the area

Farm mechanization & Food processing intervention

The students visited the food processing unit and irrigation system. They also drive the power tiller and operate various farm machinery tools.





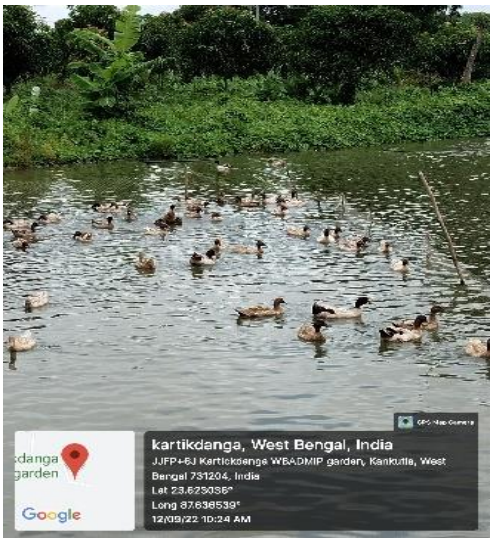




Animal production interventions

Among the livestock, they mainly rear cow, goat, poultry birds but the number is low. The products from livestock are mainly for home consumption. They are not too much interested in dairy, poultry, fishery culture commercially.





Method Demonstration Programme

The students organized the Demonstration on Various Agricultural Practices in Villages fostering practical experience. The program aims to introduce and propagate good and best agricultural practices that address the need for informed decision-making, increased cost-effectiveness, income generation, and optimized resource utilization. The students selected practices based on rural farmers' specific needs and interests. The event engaged all villagers, including men, women, and children from farming and non-farming communities. The outcomes have been significant, providing skilful hands-on experience to students and facilitating the adoption of such practices by the farming community. Demonstrations of Practices include mushroom cultivation, beekeeping, kitchen gardening, seed treatment, and bio-fertilizer production, offering promising avenues for high-income self-employment opportunities. However, several challenges, like a lack of skilled manpower for scaling up post-program practices, insufficient time for comprehensive student assessment, and difficulties ensuring full community participation due to other daily commitments, were encountered. These challenges can be addressed by including year-round skilled manpower and audio-visual systems, which are essential for the sustained success and impact of the program, in turn contributing to the broader goal of sustainable agricultural development.

















Method Demonstration Programme in different villages

KVK Attachment

The students are allotted to the Rathindra Krishi VIgyan Kendra, Srinniketan. The Rathindra Krishi Vigyan Kendra (RKVK) was established on 4th October, 1994 at Sriniketan. It is attached to Palli Siksha Bhavana(Institute of Agriculture), Visva-bharati and is sponsored by ICAR. This kendra named after Rathindranath Tagore, the oldest son of Rabindranath Tagore & the 1st agricultural graduate too.

The major mandate of Rathindra KVK includes Technology Assessment and Demonstration for its application and Capacity Development.



Rathindra KVK, Visva-Bharati, Sriniketan





Azolla and Orchard management







Vermicompost preparation



Field activities at RKVK

Agro- Industrial Attachment

The student spends nearly four weeks at different agro-Industries in West Bengal and different states of India. Some students of Bangladesh are allowed to carry their Agro-Industrial attachment works even in Bangladesh. This provide ample opportunity to the student to directly interact with the industry people and carry out a no. of hands-on sessions.

List of Allotment of Agro-Industries to the students

Sl. No.	Name	Agro-Industry Address
1	Akash Mondal	Subhas Bakery, J.L.Banerjee Road,Rampurhat,Birbhum,Owner-Nil Ratan Das;Cont-9732199493
2	Akshay Kumar Kundu	Kangsaboti Cooperative Milk Producers Union Ltd, Contact Emai: Kamulbku@Gmail.Com
3	Animesh Ghosh	Kochar Enterprise (P.Ltd), Buicha, Sainthia
4	Anindita Chatterjee	Sukumar Salvent Private Ltd., Sagrai, Purba Burdhaman
5	Ankita Majumdar	Surja Agro Product Pvt. Ltd, Gopal Nagar, Kamarpara Birbhum
6	Arnab Laha	Taramaa Seed Company,Arambagh, Hooghly
7	Arpan Roy	Kamakshi Jute Mill, Chakchaka, Cooch Behar
8	Baibhab Ghosh	Manashi Agro Industry, Chittrabari, Coochbehar, West Bengal
9	Bidarshi Maji	Anand Flour Mill, Gopalpur Asansol, 03412253521
10	Bishakha Mondal	Sreecharan Oil Mill; Address - Bhatchhala, Burdwan Collegemore, Purba Bardhaman,Contact No - 9434011984 (Angshuman Hazra)
11	Bishal Dey	Shanti Oil And Flour Mill,Gangarampur, Dakshin Dinajpur,03521-55749
12	Darshan Dutta	Swastik Oil Mill, Sainthian (9749143281: Owner's Contact Number)
13	Debanjan Ghosh	Sainthia Oil Mill, Buicha,Sainthia, Birbhum, West Bengal, Owner -Subham Kochar +918100381005
14	Debottam Bhattacharya	Arambagh's Nursery, Arambagh Agrochemical Pvt.Ltd., Shyambati , Sonajhuripally, , Santiniketan Bolpur , Birbhum,Manager (Gobinda Maji - 6295834748
15	Dechen Sherpa	New Chumta Tea Estate, Near Salbari, PO - New Chumta PS – Matigara,Siliguri- 734009 West Bengal
16	Deepjyoti Sen	Rajarhat, Panchayat-Jibdharer Khuti, Coochbihar, West Bengal, Pin- 736165 phone: 8436005362
17	Dibyendu Seth	Pan Seeds Pvt Ltd.,(Seed Industry), Burdwan, Abhijeet (Hr) 8335038725
18	Disha Chattopadhyay	Dadabhai Seed Farm, Itla, Krishnagar, Nadia, P. O- Kalir Hat,Contact No- Joydev Biswas (Director) - 9434105368,Jayanta Saha(Manager) - 9800107480
19	Gobinda Mondal	Jay Ma Kali Oil Mil,Rampurhat, Birbhum

20	Gopinath Garai	Joy Bharat Oil Mills , Santhia, Dist- Birbhum, West Bengal - 731234, Partner-Ashok Kumar Choudhary, Contact No: +91-9647380777
21	Joyee Pandey	Bharnobari Tea Estate, Hasimara, Alipurduar,735215;Samrat Dey, Assistant Manager,8942024858
22	Jyoti Patra	Sarada Jute Mills Private Limited, Village: Phulbagan, P.O. - Talgachi, District & P.S: Murshidabad, Pin : 742149
23	Kalo Mardi	Ilish Brand Mustard Oil Mill Address: Thana Rd, Lenin Sarani, Katwa, West Bengal 713130
24	Kaushik Kr Das	Uaftrswo Seed Farmer Producer Company Limited.Brand:-Sova Paddy Seed;Address :-Uttar Andaran Fulbari,Tufanganj,Coochbehar,West Bengal. Contact No. 8250934663 (Pradyut Babu)
25	Krishnendu Dutta	Basudha Seeds, Lalbagh Bsf Camp, Sripath, Kumarpara, Roshanbagh, 742164,Murshidabad , West Bengal, Mobile Number: 7797366467
26	Lopamudra Roy	Anondomoyee Solvent Extraction Plant (Rice Bran Oil),Guskara Purba Bardhaman 713128,Contact - Bikash Ghosh (Owner)Ph No.- 6294394926
27	Md Saddam Hosen	Aci Seed Industry. Aci Centre 245, Tejgaon Industrial Area, Dhaka-1208, Bangladesh.
28	Mintu Barman	Majherdabri Tea Estate Adress - Damanpur, Alipurduar,West Bengal, 736123
29	Mitadru Chatterjee	Shooting Camp Farmers Producer Company Ltd, Sakunibala Village, Pundibari, Cooch Behar.
30	Mukesh Mahato	New Kishan Bakery, Gosala More, Purulia, 723101; Ijaz Ansari Phone:9932283172
31	Nayan Ghosh	Mayurakshi Cotton Mill, Panchra, Beside Nh60, Birbhum, 731133,West Bengal.
32	Nisha Ghosh	Modern Bakery,Jmxx+Cfc Modern Bakery, Kasimbazar More, Bolpur, West Bengal 731204
33	Nishat Tasnim	Karupanya Rangpur Limited (Jute Mill) Robertson,Rangpur,Bangladesh
34	Parimita Mondal	New Gour Netai Bekary,Railpar Rampurhat Birbhum, Owner Deepak Kumar Das,9932261736
35	Partia Roy	Sree Shakti Oil Mill,Badanganj-Kamarpukur Rd, Subir Chak, West Bengal 712612,Contact Number -9800855340
36	Pathik Sutradhar	Giriraj Seed Farm, Noguri Suri Birbhum
37	Prabhati Hansda	Dairy Farm, Near Sian Hospital,Bolpur Birbhum
38	Pronomita Ghosh	The Bhagirathi Co-Op Milk Producers Union Ltd, Berhampore, Murshidabad, 9733020546
39	Prosonna Biswas	Dahmashi Jute Insdustries Ltd. Razdharpur, Kamarkhali ,Co No: +8801769004520
40	Prothoma Sarker Onti	Rajbari Oill Mill, 221/43/1 College Road, Rajbari 7700
41	Rahul Dey	Parasmoni Organic And Agri Products Pvt Ltd , Damodorpur Road , Lalbajar , Bankura , 9732865555

42	Raju Halder	S.M Enterprises, Malatipur More, Dhatrigram, Purba Bardhaman, 713405, Ph No: 8652627950
43	Rashadin Md Bodeul Ddoza	Carew & Company (Bangladesh) Ltd. Surgical Supply Store In Darshana, Chuadanga, Bangladesh.
44	Ratan Barkuni	Agree Organic Manure Organization; Address Nutunpally, Memari, Purba Burdamanb 713149
45	Sabyasachi Kundu	Andi Oil mill ; Address :-Andi , Murshidabad,Pin No :-742168, Contact number :-9434442212(Owner)
46	Samir Hansda	Malda Mango Co Op Society Ltd.,P.O -Old Malda,Dist - Malda,Pin - 732128,Email - Malcos.Malda@Gmail.Com,Phone No - 8967119010(Omkar Sarkar)
47	Sanchari Adhikari	Paramounts Traders (Bakery), Hattala Road, Durgapur, 9434039362(Sk.Imran Zafar , Director)
48	Sangram Ghosh	Bengal Nestors Industry's Limited, Mother Dairy, Guskara,
49	Sankhadeep Dawn	Pragati Agri Products Pvt Ltd, Village Daichanda Po Huria 2 Km From Bankura More Sh 8, West Bengal 713424;Contact:97483 88018
50	Sayan Banerjee	Patwari Oil Mill, Address: College Rd, Netaji Pally, Sainthia, West Bengal 731234, Contact No: 03462-262436
51	Seema Tudu	West Bengal State Seed Corporation Limited, Hatzanbazar-Suri Branch, Address: Hatzone, Bazar, Near Suri Rly Station, Sarf-Suri, Pin – 731101 And Contact No.: 9679861108
52	Shreya Saha	Sudha Oil Mill, Mxh7+47h, S B Gorai Road, Asansol, West Bengal 713301, Contact No Of Owner - 9775741444
53	Shyam Sundar Roy	Purbasha Nursery, Address -Kotulpur (Near Kamala Cold Storage),Pin-722141,Bankura
54	Snehangsu Saha	Joy Bharat Oil Industries, Suri-Sainthia Road, Sainthia, Birbhum, Pin – 731234, Contact – 9647380777,Mail-Joybharatoil@Gmail.Com
55	Sonali Shil	Bio Kalyan Nursery, Kashimbazar, Murshidabad, Contact:8001881188
56	Soumajit Sinhamahapatra	Raj Bakery, Simlapal, West Bengal
57	Soumendra Bhuimali	Sonali Oil Industry ,Vill Bhadiswar P.O+Ps- Murarai Pin 731219, 9593253873
58	Soumili Bera	Pallishree Limited,Pallishree, Arambagh, Hooghlycontact No.:9230085083
59	Soumyadeep Ghoshal	Mitra Bakery , Mm7p+Hqr, Bolpur - Sriniketan Rd, Bolpur, West Bengal 731204
60	Soumyadip Mondal	Polly Seed Pvt. Ltd.(Purandarpur, Suri, Birbhum,Pin No.-731129, West Bengal,Pritam :83888 32387
61	Sourish Pramanik	Name Of Industry - Ramnagar Seed Farm Pvt Ltd, Address - Post Office, Burdwan- Katwa Road, Har Gram, Ramnagar I, Bhatar, West Bengal 713125, Contact No. - +916302006260 (Tapas Konar, Ceo)
62	Subhas Chandra Chanda	Amul Jairambati, Jibta, Bankura

63	Sankhadeep Dawn	Shiba Durga Muri Mill, Bolpur, Birbhum West Bengal
64	Sudip Sar	Dharmadasi Dal Mill Kirnahar Dist Birbhum
65	Trisha Majumder	Sopura Silk Mills ltd., Rajshahi, B 74, BSCIC Industrial Estate, PO Sopura, PS 6203 Bangladesh Phone: +8801712646713
66	Udit Debangshi	Gms Agritech Private Limited (Seed Manufacturing Company), Nimtola Campus, Nimtola, Bahiri,Ph Number: 9674947153
67	Uma Baidya	Mathura Tea Estate , Mathura Bagan , Alipurduar, 736204; 9474430569, Partha Sen
68	Upasana Nanda	Bcfl (Birbhum Chemical And Fertilizer Limited), Payer More, Ichhapur, Birbhum.Rabiul Choudhury Plant Manager Bcfl, B K Roy Nagar, Seed Unit, Ghurisha, Birbhum Mobile:+91 92300 20627

AIA (Agro-Industrial Attachment) is a programme for imparting quality, practical and production oriented for agricultural degree.

Objectives of AIA Programme:

- To expose the students to industrial environment, which can not be simulated in the in the university.
- To make the students understand the psychology of the workers, and approach to problems along with the practices followed at factory.
- To make the students understand the scope, functions and job responsibilities in various departments of an organization.
- Exposure to entrepreneurship during the programme period.

Importance of AIA Programme:

- Preparing agricultural graduates for better career in agriculture.
- Preparing agricultural graduates oriented education to face the challenges by acquiring knowledge a skill through hands on experience.
- Developed Entrepreneurial skills.

The survey was conducted with simple question-answer session cum interview with the manager and skilled labourers working in the firm while taking a tour through the industry. Some handson session were also carried for better understanding the machines, process and technology.

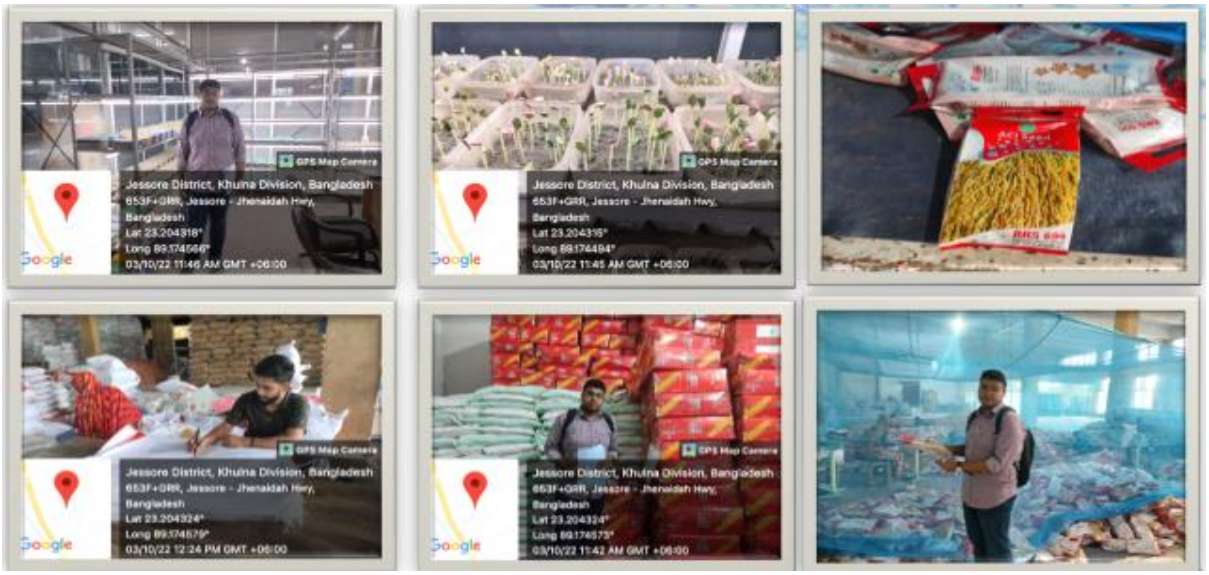
Activities during Agro-Industry visit



Different stages of seed production at Bengal Seeds, Suri, West Bengal



Paddy seed processing at Basudha seeds, Murshidabad, West Bengal



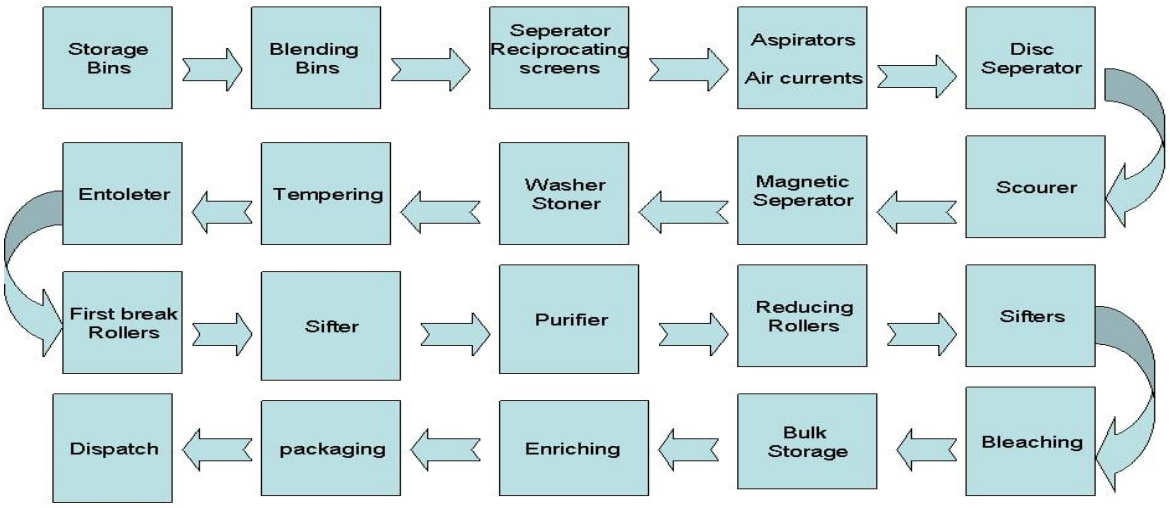
Seed processing at ACI Seed Processing Center, Bangladesh



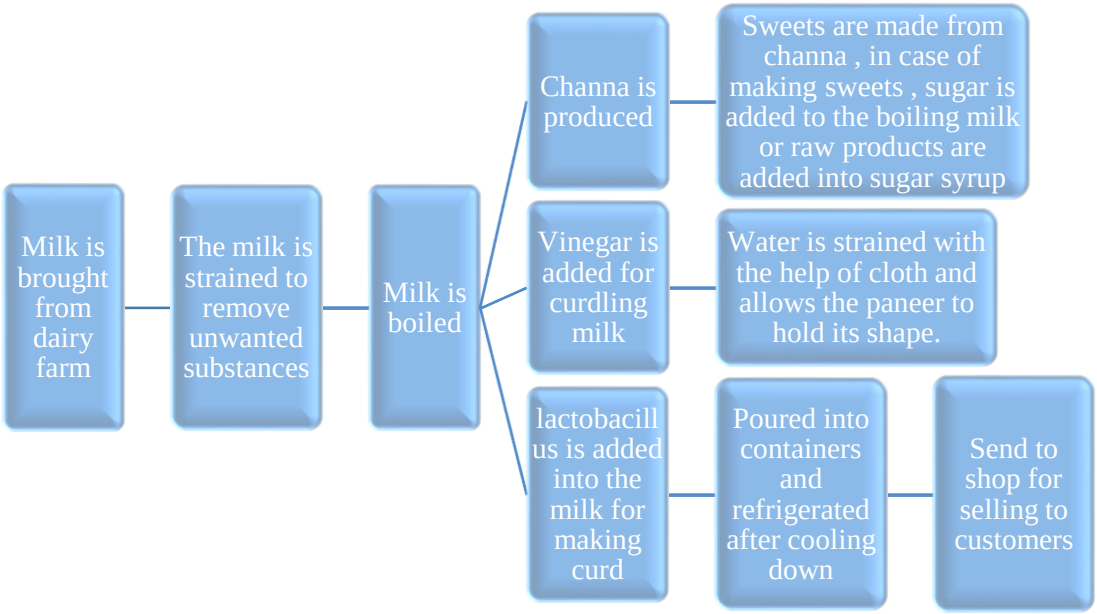
Steps followed in processing of Tea at Bharnobari Tea & Industries Ltd., West Bengal



Tea processing at Majherdabri Tea Estate, Alipurduar, West Bengal



Stages of wheat flour processing



Stages of milk processing







Milk processing unit



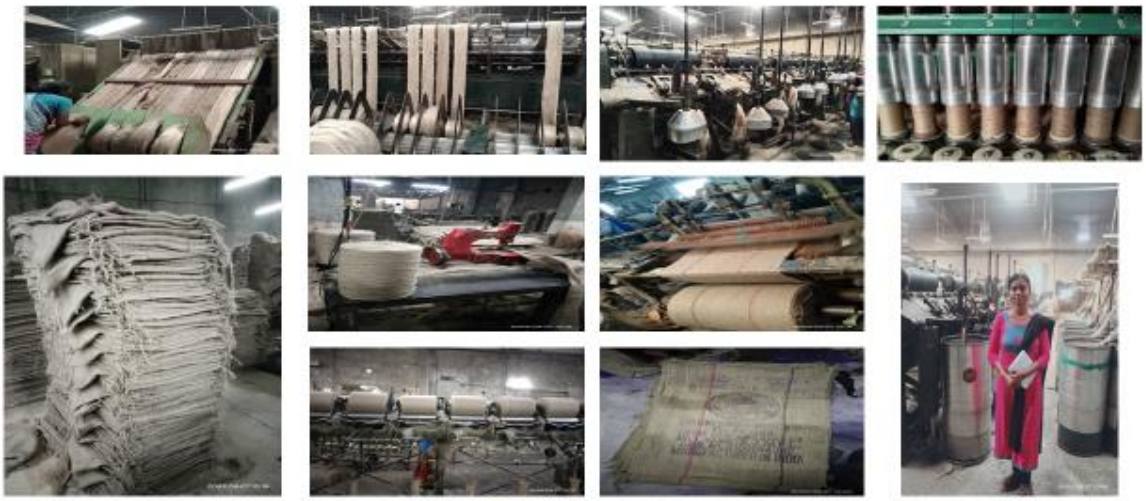
Rice bran oil refining at Sukumar Solvent Pvt. Ltd., Purba Burdwan, West Bengal



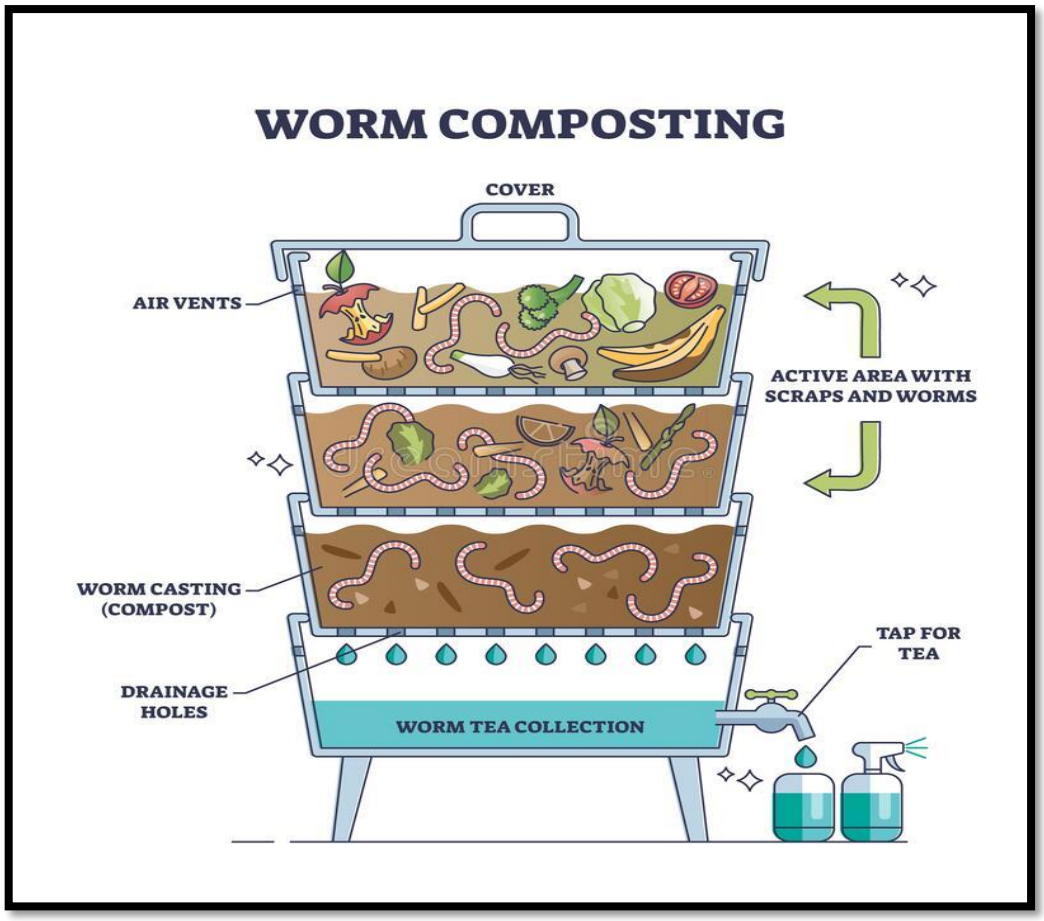
Machineries used in Bakery industry



Jute processing at Kamakshi Jute Industries Limited, Cooch Behar, West Bengal



Jute products at Sarada Jute Mills Pvt. Ltd, Murshidabad, West Bengal



Vermicompost process

Fixed and variable cost estimation of a Nursery

FIXED ITEMS	COST
LAND	1125000/-
BUILDING	500000/-
WATER SOURCE	80000/-
OPERATIONAL EQUIPMETS	300000/-
FENCING	50000/-
TILLAGE AND DIGGING	40000/-
TOTAL =2095000/-	

ITEMS	COST
PLANTING MATERIALS	300000/-
IRRIGATION	150000/-
CHEMICALS	100000/-
LABOUR COST	1909000/-
MARKETING COST	30000/-
OTHER COST	16000/-
TOTAL =2505000/-	

RAWE & AIA 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***

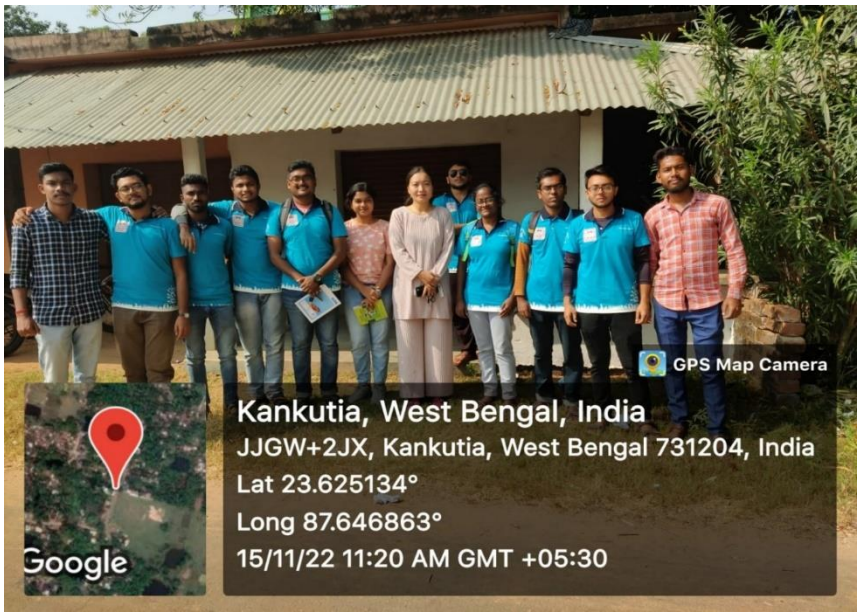
    b. Report submission **20 Marks**
    c. Presentation & Viva-voce **20 Marks**

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**

Additional Photographs






GPS Map Camera
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Google


GPS Map Camera
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Khirulli Road

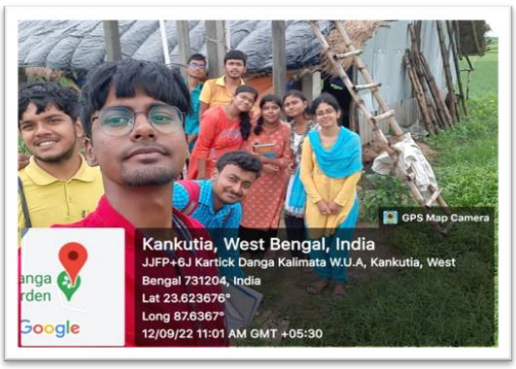

GPS Map Camera
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Celebration of World Soil Day
5th December, 2022
Organized by
Rathindra Krishi Vigyan Kendra


GPS Map Camera
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Bahadurpur
Google




GPS Map Camera
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Khirul Road


GPS Map Camera
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Google








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Monday, 08.29.2022






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Long 88.464194°
16/10/22 03:14 PM


SPANPAK


GHEE
GHEE




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