Purba Medinipur Krishi Vigyan Kendra: A Brief report

Purba Medinipur Krishi Vigyan Kendra
Bidhan Chandra Krishi Viswavidyalaya
Indian Council of Agricultural Research
P.O. Dayaldasi, Dist. Purba Medinipur, West Bengal - 721632

1. Introduction:

KrishiVigyan Kendra (Farm Science Centre) has been established by the ICAR, Ministry of Agriculture Cooperation & Farmers Welfare, Govt. of India in all rural districts of the country for transfer of technology suitable for the respective district in the field of Agriculture, Horticulture, Animal husbandry, Fishery etc. PurbaMedinipur KVK, under the administrative control of Bidhan Chandra KrishiViswavidyalaya, was established on 21.06.2016 to cater the need of the farming community of PurbaMedinipur district. But, this KVK has started its journey effectively from 2017-18. The KVK is located at Mulakhop, Dayaldasi, Nandakumar, PurbaMedinipur (22.1794° N, 87.8708° E). Almost 90% of the land under KVK is low lying. Since it is under the coastal saline zone, the pH and EC of the farm soil during winter (October to February) remain normal, but during the hot summer season, it goes upto 8 and 12-15 respectively. Annual precipitation is more than average; distribution of precipitation is almost equal. But the high magnitude of rainfall causes water stagnation and it become alarming during rainy season onwards (July to January). Entry of Tidal saline water from nearby Haldiriver is common Phenomenon causing increase in salinity of the farm soil. It simply reflects and symbolizes the scenario of the district.

Name and address of KVK with phone, fax and e-mail

Address	Website	E mail
PurbaMedinipurKrishiVigyan Kendra P.O. Dayaldasi, Dist. PurbaMedinipur, West Bengal PIN - 721632	www.purbamedinipur.org	purbamedinipurkvk@gmail.com

Name and address of host organization with phone, fax and e-mail

Address	Telephone	E mail
Bidhan Chandra KrishiViswavidyalaya P.O. Mohanpur, Dist. Nadia, West Bengal, PIN – 741 252	033-25876048	deebckv@gmail.com Website: www.bckv.edu.in

Name of Senior Scientist and Head with phone & mobile No.

Name	Telephone / Contact	
	Mobile	Email
Dr. K.K. Goswami	09434241001	kkgag2005@gmail.com

Year of sanction of KVK: 2016
Dated: ***21.06.2016***

1.1 Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings (Dedicated)	0.6
2.	Under Demonstration Units (Dedicated)	2.07
3.	Under Crops(Dedicated)	1.33
4.	Orchard/Agro-forestry(Dedicated)	2.0
5.	Others with details (Fishery, Vegetables etc.) (Dedicated)	4.4
	Total	10.4 (approx.)

1.2 Staff Position:

Sl. No.	Name of the incumbent	Designation	Discipline/Qualification	Photo
1	Dr. Krishna Kishor Goswami	Senior Scientist and Head	Ph.D.(Ag.) in Agril. Extension	
2	Mr. Tarun Sarkar	Subject Matter Specialist	Agronomy	
3	Md Mehedi Hassan	Subject Matter Specialist	Soil Science	
4	Mr. Sayan Sau	Subject Matter Specialist	Horticulture	

5	Mr. Sudip Mandal	Subject Matter Specialist	Seed Science	
6	Mr. Sagar Tamang	Subject Matter Specialist	Plant Protection	
7	Vacant	Subject Matter Specialist	NA	
8	Dr. Avijit Manna	Programme Assistant(Laboratory Technician)	Ph. D.(Ag.) in Soil and Water Conservation	
9	Mr. Shovan Mazumder	Programme Assistant(Computer)	B.Tech. (IT)	
10	Mr. Rajib Patra	Farm Manager	B. Sc. (Ag.)	

11	Mr. Kumares Das	Assistant	Bio Sc.	
12	Mrs. Anna Basumata	Stenographer Grade III	M.A. (English)	
13.	Mr. Asim Ghorai	Driver	HS	
14.	Mr. Samir Das	Driver	Madhyamik	
15.	Mrs. Sadhana Maji	Skilled Supporting staff	MA (Bengali)	

16.	Mr. Piju Shit	Skilled Supporting staff	HS	

1.3 Infrastructural facilities available at KVK:

Items	Details
Land	26.5 acre
Office Building	Make sift office is running in small renovated building, fund has been transferred to PWD
Farmers' Hostel	
Vehicle	Yes
Tractor	Not yet purchased
e-connectivity	Yes
Demo unit etc	Low cost temporary unit of poultry, fishery, vermicompost unit, IFS
Any other	Crop cafeteria, Medicinal garden

1.4 District at a glance:

The district PurbaMedinipur is comprised of 25 administrative blocks, 4 sub-divisions and 3041 villages. Total irrigation % of this district is 56.80% with a cropping intensity of 178%. Total population of the district is 5094238, among which population in the farming sector is 2890881. There are three distinct agro-ecosystems in the district. Six blocks are under AES I with loamy clay soil, 13 districts are under coastal saline soil type (AES II) and remaining six blocks are under clay loamy soil (AES III) type.

Climate and region: Hot& Humid, Lower Gangetic Plain Region (III)

Farming situation: Rice-Rice, Rice-Pulse, Fish- Fish, Rice-Fish

Major crops: Paddy, Potato, Pulses, Chilli, Banana, Mango, Coconut, Beetle Vine, Cashew, Gladiolus, Tube Rose, Turmeric, Cole crops

Thrust areas identified by the KVK for the district:

- Increasing production & productivity of pulses & oilseed crop.
- Promotion of integrated farming system.

- Diversification of agriculture through high value crops with the utilization of rice fallow also.
- Soil health management.
- Farm mechanization befitting small holding size.
- Development of seed production & marketing grid in the district.
- Mobilization of farmer group like FCs, FPOs & FPCs.
- Judicious application of inputs under existing production system.
- Judicious plant protection.
- Economic main streaming of farm women through capacity building

1.5. Demonstration units developed by PurbaMedinipur KVK for technology show case-

- Pond based Integrated Farming System Unit (Poultry, Duckery, Fishery)
- Low cost Poly house for high value vegetable cultivation (1 no.)
- Low cost Poly tunnel for vegetable seedling production (1 no.)
- Medicinal plant block (1 no.)
- Mushroom production unit (1 no.)
- Compost and vermin compost production unit (1 no.)
- Azolla production unit (1 no.)
- Dragon fruit progeny block
- Crop cafeteria (1 no.)

Demonstration units at PurbaMedinipurKVK



Model pond based IFS unit

		
Crop cafeteria	Medicinal plant block	Low-cost poly house and poly tunnel

1. Salient activities of Purba Medinipur KrishiVigyan Kendra

Under various mandates, training as well as conducting frontline demonstrations (FLDs) along with on farm trials (OFTs) is the major activities of a KVK system. The achievements of PurbaMedinipurKVK is categorically analyzed in the present section with respect to these specific mandates-

1.1. Capacity Building Programmes:

The KVK considers capacity building programme as the major programms among the mandated activities. Purba Medinipur KVK has conducted various types of training programmes including long term and short term courses during its journey for the last 3 years. A sum total of **1118** training programmes were conducted with an involvement of **28,018** participants from different sections of the farming community . Training courses on number of areas including management of field crops, traditional horticultural crops, high value crops, seed production and storage, seed certification process, planting material production, disease-pest and weed management, animal husbandry, forage crop production, nutrition gardening, vermin-composting, soil health management, protected cultivation, Integrated Nutrient Management, Integrated Pest Management etc. were conducted with an average of **112** number of trainings per year. **Table 1** shows the distribution of training programmes for farmers and farm women and rural youth over the last three years from 2017-18 to 2019-20.

No. of capacity development programmes												**Total number capacity development programmes**			
Farmers/Farm women				**Rural youth**				**Extension personnel**							
TC	**No. of Participants**			**TC**	**No. of Participants**			**TC**	**No. of Participants**			**TC**	**No. of Participants**		
	M	**F**	**Total**		**M**	**F**	**Total**		**M**	**F**	**Total**		**M**	**F**	**Total**
150	4231	1062	5293	03	82	06	88	0	0	0	0	153	4313	1068	5381

TC= Training Course, M=Male, F=Female

Critically examining the nature of the training progrmmes it has been found that both number of total training progrmmes and participant number increased very sharply, spanning 10 blocks, particularly over the last two years (Fig. 1).

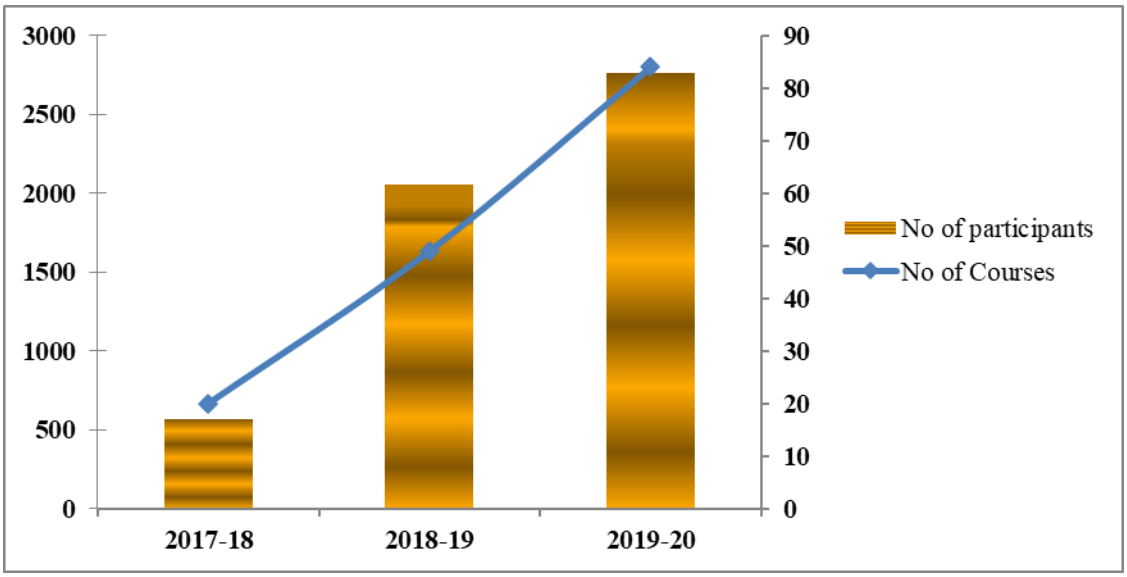


Fig. 1: Distribution of training programmes according to number of participant and course over the last three years

Among different training programmes majority of the programmes were conducted for the farmers and farm women (98%) followed by rural youth (2%) [Fig. 2].

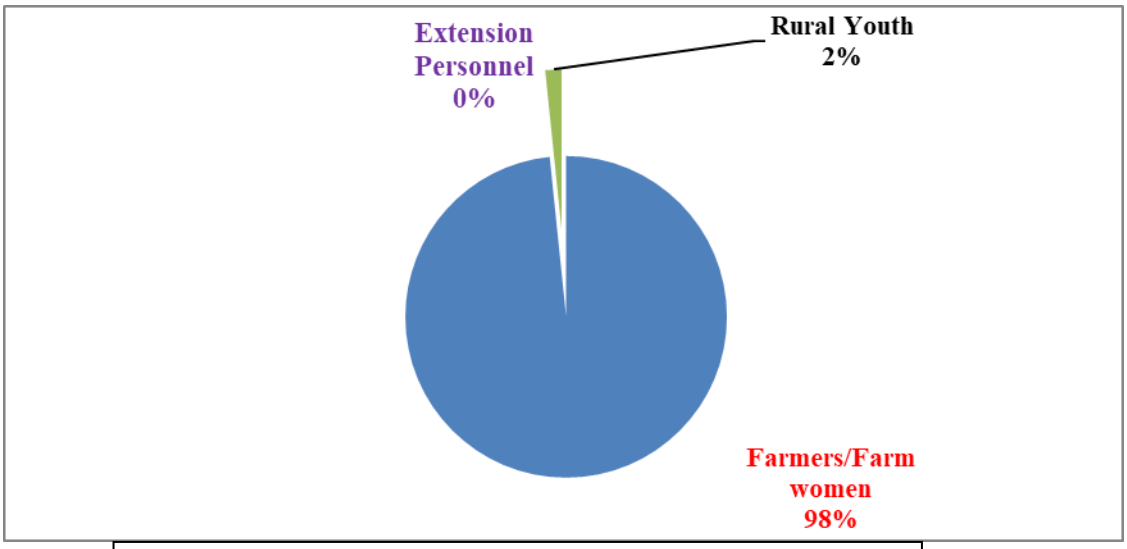


Fig. : Distribution of training courses among different groups of stakeholders

It has been found after data analysis that in case of rural youth the percentage of female trainees (25.50%) was comparatively higher than the other two categories (Fig. 3). Majority of male trainees were observed for farmers and farm women category.

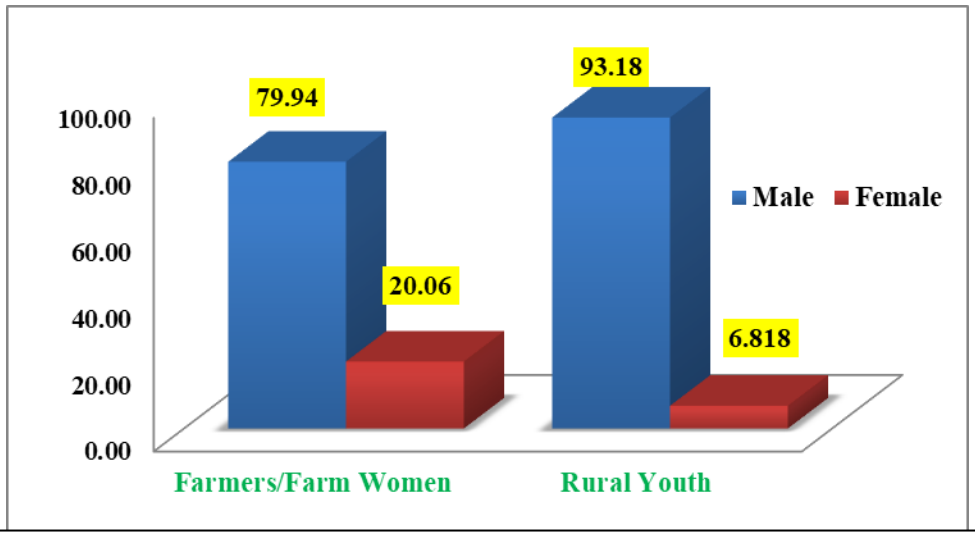


Fig. 1: Distribution of training programmes according to number of participant and course over the

Fig. 3: Distribution of training programmes according to gender under different groups

1.1.1. Training programmes for farmers and farm women:

It has been noticed that number of trainees under farmers and farm women category have drastically increase (566 to 2673) during last two years

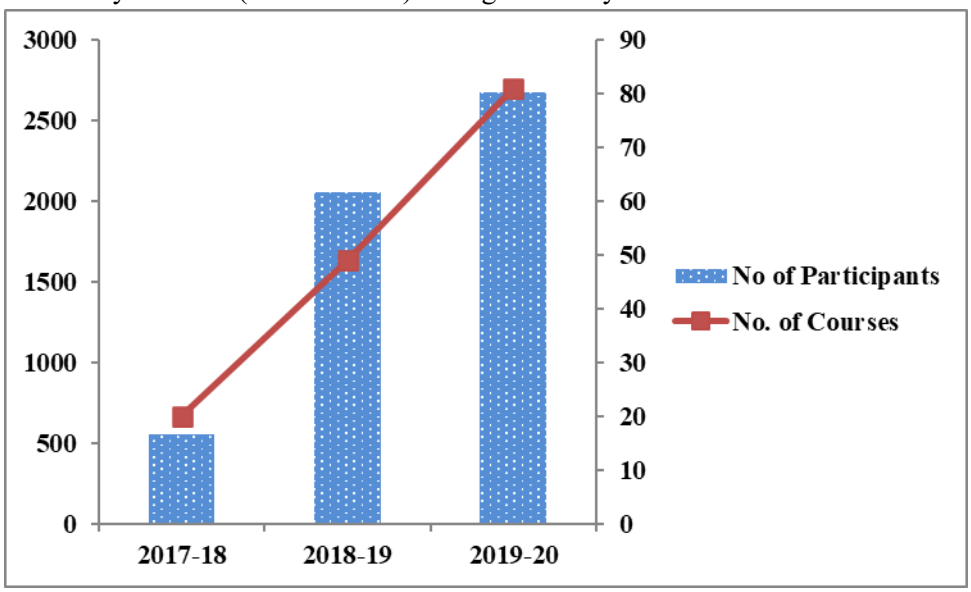


Fig. 4: Distribution of training programmes for farmers and farm women

1.6 Details of operational area / Villages of the KVK:

Sl. No.	Name of the block	Name of the villages	Major crops & enterprises	**Major problems identified (crop-wise)**	**Identified Thrust Areas**
1	Nandakumar	Jalpai, Chunakhali, Thakur Chak,Sibdattapur,Shridharpur, Ramchandrapur,Mirpur	Paddy, Vegetables, Fishery	Improper crop husbandry Non availability of quality seed and planting material Soil health deterioration High disease pest incidence Low productivity of horticultural crops. Nondescript variety Improper management practices Low productivity of existing live stock. Indigenous breed. Improper feed management. High disease incidence of livestock. Lack of awareness. Inadequacy of women led vocation. Inadequate hand on skill on crop husbandry and backyard system management. Lack of market support. Lack of awareness on export oriented Horticulture.	Increasing production & productivity of pulses & oilseed crop. Promotion of integrated farming system. Diversification of agriculture through high value crops with the utilisation of rice fallow also. Soil health management. Farm mechanization befitting small holding size. Promotion of organic farming. Capitalization of natural resources for enhancement of fish production. Production enhancement of Livestock & birds. Development of seed production & marketing grid in the district. Mobilization of farmer group like FCs, FPOs & FPCs.
2	Nandakumar	Shyamsundarpur, Sandalpur, Rautari, Naikundi, Bhavanipur, Dakshin Narikelda	Paddy, Vegetables, Betelvine, Fishery		
3	Panskura	Dobuapukur,Purosottampur,	Paddy, Vegetables, Agro-forestry, Betelvine, Fishery		
4	Contai	Erenda, Jamna,Adaberia,	Paddy, Vegetables, Fishery		
5	Ramnagar II	Demunia	Paddy, Vegetables, Fishery		
6	Panskura	Dabuapukur	Fruits, Vegetables, Oilseed&Pulse	Conventional management practices	
7	Sutahata	Rupnarayanchak	Vegetables, Pulse &Oilseed		
8	Mahisadal	Kapasberia,	Vegetables		
9	Panskura	Erapur	Vegetables		

2. Salient activities of Purba Medinipur Krishi Vigyan Kendra:

The main mandate of this Krishivigyan Kendra is technology assessment and demonstration for its application and capacity development. To fulfill the mandates the following activities have been performed by the KVK since its inception.

2.1-Summery report of activities

- District profile has been prepared
- Thrust areas have been identified
- Annual action plan has been prepared based on need of the areas
- Training conducted: 233, Participation of farmers: 7241
- Frontline demonstration (FLD) conducted: 40, Participation of farmers: 1168
- On Farm Trial (OFT) :31, Participation of farmers: 207
- Office website has been developed
- Publications on technical issues: 36, Circulated among 12520 farmers
- 3 Annual reports and 3 Action plans have been prepared

2.2 Special Activities observed-undertaken:

- Sankalp Se Siddhi
- Swachh Bharat Mission
- World Soil Day
- International Womens' Day
- Bono Mahotsav
- Exposure Visit
- Multi location trial in Black Gram in collaboration with AICRP-NSP (Crops), BCKV
- Linkage developed with Deptt. of Agriculture, Horticulture, ARD, Fishery, ATMA, NABARD, NGOs etc.
- Census report of the district has been procured
- Data base of apporox.23,000 farmers of the district has been prepared

2.3 Special attainments:

- 1st Zilla Kisan Mela and Pre-Rabi Kisan Sammelan held on 20th and 21st of February 2019, Attendance: Approx 2500, Activities: Exhibition, Crop competition, Farmer-Scientist interaction, Essay competition, Quiz competition.

- Strengthening of SHG like “Rabindra Swayambar Ghoshthi” through production of Baby food (SISHU AHAR).
- Draft Master Plan of the Farm has been completed for establishment of different proposed projects.

2.4 On Farm Trial (OFT) conducted by Purba Medinipur KVK:

On Farm Trial (OFT) can be defined as the testing and evaluation of newer technologies at farmer's field and to refine and modify the technologies, if required for better adoption by farmers. It is confirmation of already proven research results under real farming situation. PurbaMedinipur KVK has conducted OFTs in numerous disciplines since last 3 years in farmer’s field through participatory research mode. The basic aim is to solve the farmer’s problems and provide latest improved technologies as well as varieties to increase their production and quality produces for increasing income. The best ten OFT and their recommendations are portrayed below-

OFT 1:

Title	Performance study of Taro lines at PurbaMedinipur District
Purpose of study	Replacement of non-descript plant material were felt necessary for augmentation of productivity with new lines
Outcome	Among the seven unreleased lines the **BCB II** reported to be maximum yielder (13.55 t/ha) as it produced heaviest mother corm (271.67g) side by side highest yielder in respect of total corm yield from a single plant (451.67g). Thus, We may recommend BCBII as a high yielding yam cultivar for our district after necessary verification from the source of technology.
Horizontal spread	This is a very successful technology. More than 25 farmers spreading in 5 adopted villages accepted this technology.

OFT 2:

Technology	Relevance	Recommendations
Agronomy		
Algal weed management in aman paddy with application of tamarind seed	Tamarind dust as aquatic weed controller has herbicidal property which is locally available and dusting in local level is easy.	Tamarind dust @37.5 kg/ha as aquatic herbicide showed better result though further testing is needed.
Algal weed management in aman	Chopped leaf petiole of	Chopped leaf petiole of Betel

paddy with application of chopped leaf petiole of Betel vine	Betel vine as aquatic weed controller has herbicidal property which is locally available.	vine @37.5 kg/ha as aquatic herbicide showed better result though further testing is needed.
Performance of different new varieties of Lentil in farmers' field of PurbaMedinipur district	Existing lentil cultivars are not high yielder	ILL-10802 is recommended for this district. It has shown better yield performance than others in this climatic condition.
Efficiency of liquid manures in productivity of boro rice	Cost minimization	(Panchyagavya+Vermicompost) may be recommended since inputs are locally available and of low cost.
Horticulture		
Effect of different nutrient management in red amaranthus (*Amaranthuscruentus*)	Poor yield and non - availability of standard fertilizer recommendation	For highest economic gain from cultivation of Red amaranthus, farmer should go for integrated nutrient management practice with- FYM @ 10 ton+ N:P:K @ 80:60:60Kg/ha
Impact of foliar applied boron(B) and molybdenum(Mo) on cauliflower	Non practice of micronutrient causing huge crop loss. The district is highly deficient in micronutrient (B&Mo)	Farmer should go for practicing B@ 100ppm+Mo@ 50ppm along with normal RDF of 150:100:100 of N:P:K (kg) + 10ton FYM//ha to get maximum production of cauliflower.
Study on performance of taro lines (*Colocasia*sp) at PurbaMedinipur KVK	Non availability of quality planting material	We may recommend BCBII as a high yielding and economic yam cultivar for this district.
Study on effect of Zinc fertilization on Betelvine at PurbaMedinipur	Lack of Zinc application though it is essential for quality leaf production of betelvine.	Technology option 3 (RDF+ $ZnSO_4$ @ 15 kg/ha+ ZnSO4 @ 0.03%) recommended for higher marketable leaf production and more return from unit area.

Soil Science		
Spacing effect of cabbage cultivation with recommended dose of nutrient management	Severity of pest disease infestation and low nutrient status of the soil.	For maximum yield with highest B:C ratio one should go with 60×30 cm spacing under local conditions.
Study on effect of organic supplements on yield and soil quality improvement in cauliflower	Erratic dose of nutrient application causes low yield and extra cost involvement in cauliflower cultivation in local areas. Organic supplementation may improve soil fertility status and reduction of cost of cultivation	For highest economic gain and soil health improvement, treatment with[70 % RDF+ 30 % Neem cake] is best suited under local condition. But the technology needs more assessment.
Different methods of Zinc application in Kharif rice in irrigated farming situation in East Medinipur	Stagnant productivity of Kharif rice may be due to application of only major inorganic fertilizers.	Application of chelated Zinc @ 5 g/10 lit of water at 30-35 DAT and 50-55 DAT is the best for getting better yield in Aman paddy.
Plant protection		
Controlling cabbage diamond back moth (*Plutellaxylostella*) with perimeter trap cropping	Pest management and yield improvement without any chemical spray.	Highest marketable yield of 22.43 t/ha of cabbage was observed in mustard as trap crop followed by Chinese cabbage.
Effective management schedule of spray and root feeding application against eriophyid mite.	Effective control of eriophyid mite with different spray and root feeding schedule	Among the different treatments,6 sprays along with root feeding of Neem oil @ 1% per yearwas significantly superior in reducing the mite population besides minimum number of damaged nuts.
Seed Science		
Effect of different nutrient management on Red	In-situ seed production by	Farmer may go for integrated

Amaranthus(*Amaranthuscruentus*.) seed production.	different nutrient management practice.	nutrient management practice with- FYM @ 10 ton+ N:P:K @ 80:60:60Kg/ha (TO II) for highest economic gain from seed yield of red amaranthus.
Evaluation of water tolerant rice varieties at Purba Medinipur	To introduce high yielding water tolerant rice variety	Swarna Sub1 recommended for cultivation in water logged / flood based situation at Purba Medinipur district for getting higher yield and return.
Effect of different post-harvest treatments on seed quality of green gram in storage condition.	To reduce huge storage loss by introducing proper storage practice.	We may recommend use of Zeolite beads @ 1kg/30 kg of seed for better storability of green gram seeds.

Achievements of Frontline Demonstrations in last three years

Sl. No.	Crop	Technology Demonstrated with detailed treatments	Area (ha) covered	Yield (q/ha)		Net return (Rs./ha)	
				Demo	Check	Demo	Check
Cereals							
1	Paddy	Swarna Sub1 variety	7	46	35	91000	26500
2	Local Aromatic Rice	Variety: Harinkhuri, Radhatilak, Kalojira	4	32	25	80,000	62,500
3	Boro Paddy	Use of Pheromone lure against YSB	3	48.58	44.80	42444	36450
4	Paddy	Use of nitrogenous	2	51.38	46.97	36480	19182

		(urea) fertilizer through leaf colour chart					
Pulses							
5	Lentil	Certified seed production of Moitree variety	1.5	12	10	67700	18700
6	Lentil	Certified Seed Production of (variety–P.L-8)	5	12	9.5	68000	18900
7	Lentil	Use of selected fungicide against ascochyta blight	1.0	14.30	12.50	50200	43500
8	Lathyrus	Variety: Pratick Seed Treatment, PPC	2	1850	1575	70,300	59,850
Oil seeds							
9	Groundnut	Seed Production of Variety (T.G-37 A)	4	33	28	169500	58000
10	Groundnut	Variety: TG-51, Seed Treatment,PPC	10	30	22	44750	22100
11	Sunflower	Variety: PAC-36-1, Seed Treatment, PPC	25	17	14	77700	52800
12	Sesame	Variety- Savitri, Seed Treatment, PPC	10	12.5	11	50450	38500
13	Ground Nut	Variety: TG-37, Seed Treatment, PPC	5	27.05	22.5	105,275	83,450
14	Mustard	Variety: NRCHB-101, Seed Treatment	5	17.25	11.1	21385	15507
15	Mustard	Sulphur fertilizer	19	18.75	15.34	50625	37583

		application in mustard					
16	Groundnut	Application of gypsum	30	34.3	26.2	54194	37876
Horticulture							
17	Knol-Khol	Application of Boron	1.5	310.5	252	355350	263400
18	Broccoli	Introduction of broccoli to unexploited area	1.5	225	420	512500	355000
19	Banana	Application of Banana Bunch cover	1.5	516	480	502500	375000
20	Brinjal	Use of non-chemical insecticide against fruit and shoot borer in field condition	0.5	600	525	650000	537500
21	Cucumber	Management of cucumber beetle to minimize the Bacterial Wilt infestation.	0.5	450	405	515000	447500
22	Potato	Use of New generation fungicide against late blight	1.5	375	316.5	195000	136500

23	Tomato	Use of Organic Insecticides and sticky trap against sucking pest	1.0	1500	1200	1160000	860000

Number of new crop varieties evaluated by the KVK:

Crop/variety	Year of testing	Best suited varieties
Paddy: a) Swarna Sub-1 b) Jalamagna c) Kalabhat	2018-19	**Swarna Sub-1** for medium low land condition **Jalamagna** for low land condition
a) CR Dhan 409 b) CR Dhan 505 c) CR Dhan 506 d) CR Dhan 507	2020-2021	"CR Dhan 507" for low land condition
Groundnut a) TG-51 b) TAG-24 c) TG -37 A	2018-19& 2019-20	TG-51& TG- 37A
Sesame a) Sabitri b) Tilottama	2018-19& 2019-20	Sabitri
Sunflower a) PAC-361 b) PAC-36	2018-19& 2019-20	PAC-361
Lentil a) ILL 10802 b) WBL 77 c) IPL 526 d) Pant Lentil 8	2018-19, 2019-20& 2020-21	WBL 77
Lathyrus a) Pratick b) Ratan c) Bidhan Khesari 3	2018-19 & 2019-20	Pratick
Black Gram a) Samrat	2018-19	Samrat

Cluster Front Line Demonstration (CFLD) conducted by Purba Medinipur KVK:

1.1.1. Cluster Front Line Demonstration on Pulse crops during last three years

Season	Crop	Area (ha)	Variety
Kharif	Black gram	10.0	PU-31, Sulata
Rabi	Lentil	30.0	WBL 77, PL-8
Summer	Green gram	20.0	Samrat, IPM 02-3
	Total	**60.0**	

1.1.2. Cluster Front Line Demonstration on Oil seed crops during last five years

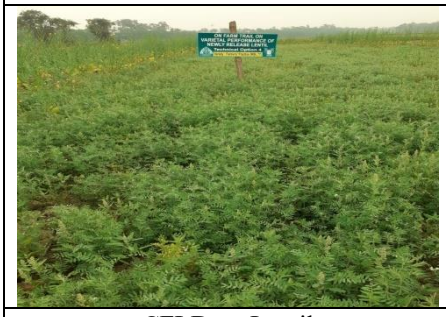
Season	Crop	Area (ha)	Variety
Rabi	Mustard	75.0	B-54, NRCHB 101
Summer	Sesame	10.0	Savitri
	Groundnut	75 .0	TG-37
	Sunflower	10.0	Siri-333
	Total	**170.0**	

Photographs of Cluster Front Line Demonstration conducted by Purba Medinipur KVK

Kit distribution under CFLD

CFLD on Black gram

CFLD on Mustard



CFLD on Lentil

Field day under CFLD

Training on pulse under CFLD

Seeds and planting material produced in KVK farm

Crop	Variety	Quantity
Paddy	Sankar, Black rice , GovindaBhog, Jalamagno, Swarna Sub 1, RadhaTilak, Radhunipagal, Kalojira Jitendra, Dhudeswar	10 q
Mustard	B9, B54, NRCHB 101	1 q

Lathyrus	Pratick , Bidhan Khesari 3	1 q
Dhaincha	Local	0.50q
Taro	Muktakesi, Desi	0.50 q
Elephant foot yam	BidhanKusum, Gajendra	2 q
Vegetables	Tomato, Brinjal, Cabbage, Cauliflower, Knolkhol, Broccoli , Chinese cabbage, Lettuce, Capsicum etc.	50000 nos.
Dragon fruit	Red and White type	1500 nos.
Turmeric	Kalyani local	0.5 q

Extension Activities Undertaken (Last 3 years) (Numbers)

S.N.	Activity	Event No.	Participants
1.	Field Days	18	176
2.	Agril. Exhibition	4	126
3.	Farmers' Fairs	1	2495
4.	Radio Talk	2	-
5.	TV show	3	-
6.	Film show	10	450
7.	Training materials produced		
	(a) Pamphlets	13	12000
	(b) Video-cassette/ CD	-	-
	(c) Slides	-	-
8.	Extension Training meetings organized	65	2650
9.	i. KisanGhosthi	2	60
	ii. Farmers Seminar	2	190
	iii. Lectures delivered as resource persons	5	-
	iv. Newspaper coverage	4	-
	v. Popular articles	3	-
	vi. Advisory Services	150	-
	vii. Scientific visit to farmers field	24	650
	viii. Farmers visit to KVK	42	1890
	ix. Diagnostic visits	50	175
	x. Exposure visits	4	80
	xi. Animal Health Camp	5	75
	xii.Soil test campaigns	2	85

	xiii. Self Help Group Conveners meetings	12	156
	xiv.Celebration of important days (specify)	17	650
	xv.Farmers'- Scientists' Interaction	25	990
	xvi.Technology week	1	1123

District-level programmes organized by KVK

Name of the programme	Collaborative organization	Date of the programme	Purpose
Diploma in Agricultural Extension for Inputs Dealers (DAESI)	SAMETI, WB & MANAGE, Hyderabad	One year (52 Weeks) Starting date 22.11.19	To impart relevant and location-specific agricultural education to equip input dealers with sufficient knowledge to transform them into para-extension professionals so as to enable them to address the day-to-day problems being faced by the farmers at field level.
One day seminar on approaches towards Doubling farmers' income	SHILPA BICHITRA	04.02.2020	To showcase recent approaches in agriculture and its allied sectors to augment farmers' income by two fold from his/her existing land.
One day district-level workshop on 'scientific coconut cultivation technologies and value addition'	Coconut Development Board, state centre, Kolkata	28.11.2019	To update the coconut farmers about advancement in different cultivation operation of the crop to get higher yield and return beside its more utility options in processing.
This Kendra has also extended its hand in a CSR project with **'Haldia Energy Limited'** through year-round technical advisories along with demonstration for upgrading the farmers, mostly of the backward classes.			

Success stories/Case studies

A.

Name of farmer	Pramatha Majhi,
Address	Brindabanchawk, Pashukura II, PurbaMedinipur
Contact details (Phone, mobile, email Id)	9734125060
Landholding (in ha.)	One acre
Name and description of the farm/ enterprise	ShriPramathaMajhiofBrindabanchawk, Pashukura II, PurbaMedinipur, is an innovative farmer having only one acre land. Though he is a non-matriculate, he always likes to take venturesome steps in his family. Having received training from KVK and Department of Horticulture, he has planned his faming in such a way that he now can maintain his family of three members with a Pakka residence. Sri Majhi is the pioneer of Paskura block in introducing high value crops like Broccoli, Red Cabbage, Chinese cabbage, cherry tomato, colored capsicum, use of mulching in seasonal crops to reduce weed load and conservation of moisture. Through protected cultivation with micro irrigation facility he is harvesting crops like different leafy vegetables, seedlings, colored capsicum etc. Out of his one acre of land with irrigation facility, Sri Majhi is now earning Rs. 3.00 lakhs per annum net income which is an example in his area. Sri Majhi has already received awards like 'KrishakSamman' and 'Best farmer' from Govt. of West Bengal.

B.

Name of farmer	Shri Amit Bera
Address	Village + PO-Teorkhali, PS- Bhupotinagar, District: PurbaMedinipur, Pin-721655
Contact details (Phone, mobile, email Id)	8001758123
Landholding (in ha.)	0.27
Name and description of the farm/ enterprise	Shri Amit Bera was born in a very poor family and had to get engaged in family farming from his child hood days. That made him creates a clear knowledge about cultivation of all types (cereals. fruits, flowers and vegetables) of crops grown in the area. In the year 1994, ShriBera got a scope to listen to a motivational speech of Dr. DevalDev, an eminent environmentalist, on importance of land race conservation that influenced him to take responsibility of doing the job. After that he roamed about throughout the country and till date he could able to collect 324 numbers of indigenous and rare rice varieties like Jugol, Rani Geli, BhutMuri, Radhunipagol, Sabita, Dhudeswar etc. In the collected list, he claims 26 such varieties to having only with him in the state. Not only rice, he himself engaged in collection and conservation of seed and planting materials of different vegetable and tuber crops. His love and determination to the revolutionary work of seed conservation fetched him so many state and national recognition. That huge collection of germplasm utilized by the researchers in breeding programme at several renowned research centers of the country. He always used to think about organic and environmentally safe home-made inputs to be used in farming and tries soulfully to spread his thinking in the farming community through repeated awareness programme. ShriBera emphasizes on integrated farming system and set up a model IFS unit in his 16 katha (0.11 Ha) land consisting of pond, duckery, cereal cultivation area, vegetable area, seed production unit, vermicompost unit and mini mushroom spawn production unit. From his small IFS unit ShriBera earn a net profit of Rs.1.75 Lakh per year. This IFS model is now an attraction for people from every sphere like student, researcher, farmers of the district and the state. In recent times, ShriBera has formed an FPC namely “Bhagbanpur II FPC Ltd” on 25.1.2019 with 200 members to spread the idea of IFS, Multi cropping, Organic farming in an organizational way and also to develop market linkage with different agencies.

Hand holding to Farmers Producers Organizations/ Companies (FPOs/FTCs) by the PurbaMedinipur KVK

Name of FPO/FPC	Address with phone and e-mails	Commodity/enterprises on which FPO is working
DIVINIUS FPC	Satmile, Contai, PurbaMedinipur M – 9732740740 e-mail– diviniusfpc@gmail.com	Vegetable cultivation, Fishery and Poultry business
NABODISHA FPC	Erenda, Bhagobanpur, PurbaMedinipur M – 9153080569 e-mail– nabadishafpc@gmail.com CEO- PRASENJIT SAHOO MOB: 9083976356	Cultivation of different vegetables and groundnut
DESHAPRAN FPO	Contai, PurbaMedinipur M – 9647237914	Vegetable cultivation, Fishery and Poultry business
BHAGWANPUR II FPC	Vill+P.O- TIORKHALI,DIST-PURBA MEDINIPUR,WEST BENGAL, PIN – 721655 M-9732752492 E mail-bhagawanpur2fpc@gmail.com	Paddy , Vermi compost
HRIDAYSANGAM FPC	PURBA BAKULDA, BAKULDA, PURBA MEDINIPUR, WEST BENGAL, 721139 M: 7477632340 Email: hfpcl2019@gmail.com	Rose, Paddy, Vegetables

Details of awards / prize received by the associated farmers:

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose
1.	Kishak Ratna	Debabrata Maity	2019	Govt. of WB	20000.00	Extraordinary contribution in the field of Agriculture
		Chandicharan Boyal	2019			
		Ashok Kumar Maity	2019			
2.	Best Farmer	Amit Bera	2019	PurbaMedinipur KVK	-	Exemplary contribution in farm and allied sector
		Tapan Pattanayak				
		Hazi Alamgir Sk				
		Ambika Jana Nayak				

Innovative approaches performed by Puurba Medinipur KVK

1. Association for home delivery of vegetables

KVK, East Midnapore in collaboration with the Panskura vegetable producers' Company and Usha Agro, Panskura, involved farmers to start home delivery of vegetables along with the daily need articles in the nearby areas during pandemic situation.The KVK also guided farmers in following government guidelines to prevent COVID-19 spread while handling the farm produce. The initiative was named as 'Green Basket' and mainly aims to provide help during the crisis of COVID-19. The door-to-door delivery of vegetables enabled farmers to sell their produce at reasonable prices and also to the consumers to get fresh vegetables at their door step during the adverse situation.

Already 700 customers have been registered as purchaser by the organization and 100 producers, mainly vegetable growers are supplying the graded quality products.

2. Promotion of participatory organic seed production of potential aromatic rice cultivars through PKVY

In last few years, the trend of demand for such folk aromatic cultivars showed steady growth and one of the prime reasons is for getting higher profit from such folk aromatic rice varieties than present high yielding cultivars.

In these circumstances, Purba Medinipur Krishi Vigyan Kendra, has taken initiative of producing certified seed of three aromatic rice varieties namely GobindaBhog, Radhatilak and HarinKhuri (as found best fitted for the district) through organic production protocol to prove it as a profitable Agripreneurship venture under PKVY project.

More than 77 farmers involved in this activity has already got "Green certificate" for 20 hacters of land in the process of obtaining organic certification.

3. Promotion of Nutri-garden at home stead level with collaboration of ATMA

Realising importance of the 'Nutri garden' PurbaMedinipur KVK has taken an endeavor to promote this venture through research mode with financial assistance from ATMA, PurbaMedinipur.

Already action has been taken to involve 200 nutri-gardeners, mainly women folk, spreading in 6 different blocks of PurbaMedinipur. Year round cropping sequence has been taken into account for consistent supply of vegetables to the kitchen.

Sanctioned project on Infrastructural Development of the Purba Medinipur KVK, Bidhan Chandra Krishi Viswavidyalaya under RKVY-RAFTAR 2020-21

Sl. No.	Components	Fund allocated (Rs. In lakh)
1	Implements	18.75
2	Trainees Hostel	109.00
3	Spawn and bio pesticide production unit	20.00
4	Hi-tech Horticulture units	28.00
5	Model IFS unit	20.00
6	Others(Administrative)	3.92
Total		199.67

Project proposals have been prepared for the development of KVK farm and farming community:

S.N.	**Themes**	**Approx. Amount(lakh)**	**Proposed funding agencies**
1	Establishment of progeny orchard for both major and minor fruits	12.0	Deptt. of Horticulture
2.	Establishment of centre of excellence for horticultural crops (Hi-tech cultivation of different orchids, off-season vegetables along with strawberry, precision farming of cashew)	62.5	Do
3.	Establishment of model nursery unit	11.0	Do
4	Establishment of mushroom spawn production unit	25.0	Do
5	Establishment of model land shaping technology	10.0	Zilla Parishad
6	Land shaping of low lying areas through ridge-furrow method	21.0	Do

Proposed layout of Purba Medinipur Krishi Vigyan Kendra

1. Demonstration units for submerge low land specific crops. 2. Weed museum 3. Demonstration units for medium land specific crops. 4. Demonstration units for high land specific crops. 5. Administrative building premises with ornamental landscaping, 6. Fishery unit 7.Model of land shaping (ridge furrow) unit 8. IFS model, 9. Units of Hi-tech Horticulture, 10.Medicinal garden, 11.Farmers Hostel 12.Plant propagation units, 13.Progeny orchard, 14.Garage & Farm machinery hub, 15.Bamboo garden 16.Ornamental fish production units, 17. Farm road