

## Background of Extension Activities in Visva-Bharati

Rabindranath Tagore, one of the greatest poets of modern India and visionary, was basically a humanist and his heart ached at the distressing conditions of the villagers who were reeling under acute poverty and suffering from malnutrition, ill-health, various ailments and illiteracy. For improving the conditions of these deprived villages, Tagore initiated the "Sriniketan Experiment" in 1922 in Visva-Bharati and which was later on acknowledged and acclaimed even in **the outside world** as an **eminent** institution. In the words of Tagore, the object of his programme is **"to bring back life in its completeness into the villages making them self-reliant and self-respectful, acquainted with the cultural tradition of their own country and competent to make an efficient use of modern resources for the improvement of their physical, intellectual and economic conditions"**. Tagore's mission of rural reconstruction was based on four principles - self-interest, self-respect, self-reliant and joy in work. Tagore wanted to construct the villages in such a way that the villagers would be self-sufficient in all their needs. He wanted to make the people a 'complete man' and make the people aware of the larger society through appropriate education and inspire them to cultivate the spirit of cooperation and self-reliance.

Rabindranath Tagore's Institute for Rural Reconstruction **based** at Sriniketan was pioneering in its time and the culmination of his long period of endeavour to redeem the neglected Indian village and bridge the gap between the city and the village. **He had two objectives: to educate the villagers in self-reliance and to bring back to the villages 'life in its completeness' with 'music and readings from the epics,' as in the 'past.'** He recruited a stellar team of agronomists, rural health workers, and village-level teachers – notably Leonard Elmhirst from England and his own son, Rathindranath Tagore – who initiated many of the more successful elements basic to rural development work. We have accumulated our reports from the Institute of Rural Reconstruction, Institute of Agriculture (specially from Rathindra Krishi Vigyan Kendra), **V**inaya Bhavana and other related Institutes of Visva-Bharati, which have been seriously engaged in field studies. Tagore was not just a dreaming poet, but he had specific plans and schemes of rural reconstruction.

Sriniketan was established **in a village** in Birbhum along with Visva-Bharati with the considerable assistance from Mr. Leonard K. Elmhirst, the President of International Society of Agricultural Economists. The aims of the institute are to win the **friendship** of the villagers and to make a lively effort to assist them in solving their most pressing problems. The Institute takes the problems of the village and the field for study and discussion and investigation in an experimental farm for solution, and carries the knowledge and experience gained in the

classroom and farm to the villagers to improve their condition of living. The institute also aims at developing **their resources and credit and at teaching** them better methods of growing crops and vegetables and keeping live-stock. It also encourages the villagers to learn and practice arts, crafts and tries to bring home to them the benefits of associated life, mutual aid and common endeavour. Starting with **neighbouring** villages, the Institute has conducted its activities in fifty villages. The activities of the institution may be broadly divided into various spheres, viz: (1) Agriculture; (2) Industry; (3) Village-welfare; (4) Co-operation; (5) Health and Sanitation; (6) Education; (7) Brati Balaka (Scout) organisation; (8) Economic Research; (9) Library service; (10) Awareness generation and (11) **Soil erosion**.

**The activities of the institute are organised in full-fledged departments. A rough idea of these departments may be given here.** The Agricultural section consists of an experimental, farm, and branches for a dairy, fishery and poultry. An attempt is made to produce improved varieties of crop and raise quality of live-stock at the center and to distribute them among the **neighbouring villages**. The industries department (Silpa-Bhavan), imparts training in tannery, carpentry, pottery, book-binding, tailoring, embroidery, lacquer and batic works. "This set lion provides subsidiary occupation to the cultivators of the area by offering them indoor employment in the Institute during the agricultural slack season as also by supplying raw-materials and equipments in their homes. The responsibility for marketing is assumed by the department itself which also caters to the demand for fine artistic goods, for which Visva-Bhaiati is specially renowned. (**where the "ends**)

Gradually, after Independence, rural India has been witnessing exciting changes in terms of the peoples' articulation of new demands, gender assertiveness, environment consciousness, grass root movements and decentralization. Simultaneously, dimensions of rural development and its problems are assuming greater complexities due to the emerging socio-political scenario in India. Keeping parity with the emerging situation, Visva-Bharati has reorganized its activities and adopted an integrated approach to work in three vital areas of development viz. Research, Extension and Training. Visva-Bharati has been actively engaged in improving the condition of the villagers since its inception. The idea is to encourage the villagers to become self-reliant through participatory approaches by formation of Self- Help Groups, Youth Organizations, Mohila Samities, Brati Balak (Scout) organizations and many others.

### Extension activities of Rathindra Krishi Vigyan Kendra

Rathindra Krishi Vigyan Kendra (RKVK) under the Institute of Agriculture, Visva-Bharati, is actively engaged in developing the rural areas of Birbhum District. Special emphasis has been given in **Agriculture Development**.

#### 1.Area covered by RKVK during the Period of 2015-16 to 2019-20

Sl. No.	Name of the Block	Name of the Village	Latitude (degree, minute, E,W)	Longitude (degree, minute,E,W)
1.	Bolpur Sriniketan	Albandha	23.747771	87.7012418
2.		Amgare	<b>23.905445</b>	<b>87.524620.</b>
3.		Muluk	23.6537	87.72046
4.		Asdullapur	23.7091	87.6513°
5.		Bagdaura	23.74028	87.74865
6.		Baidyanathpur	23.6832194	87.7603293
7.		Ballabhpur	23.68455	87.64948
8.		Bandh Nabagram	<b>23.668690</b>	<b>87.682770.</b>
9.		ChhotoSimulia		
10.		Bejra	23.58446	87.82304
11.		Boutijole	<b>23.668690</b>	<b>87.682770.</b>
12.		Benuria	23.66723	87.63287
13.		Bergram	23.73178	87.62728
14.		Bheramari	23.73554	87.58161
15.		Bidyadharpur	23.71079	87.67302
16.		Bishnukhanda	23.71650	87.60012
17.		Bishnubati	23.70679	87.64578
18.		Narayanpur	23.661154	87.6962424
19.		Chandanpur	23.64748917	87.69214543
20.		BoroShimulia		
21.		Dakshin Chandipur	23.6478°	87.6754°
22.		Damdama	23.8647	87.579
23.		Debagram	23.732387	87.626037
24.		Debanandapur	23.736585	87.703197
25.		Deuli	24.0747°	87.5111°
26.		Durgapur	23.991795	87.415943
27.		Faridpur	23.896408	87.258933

28.	Galundi	23.6239°	87.7702°
29.	Gheropara	23.619718	87.698345
30.	Ghidaha	23.5656°	87.8052°
31.	Ghotalandi	23.5852°	87.7726°
32.	Ghosal danga	23.840167	87.618638
33.	Goalpara	23.7089°	87.6700°
34.	Gopalnagar	23.6352°	87.6310°
35.	Gopalpur	23.63485	87.65901
36.	Ikshudhara	23.59689	87.77778
37.	Itanda	23.5955°	87.7640°
38.	Jadabpur	23.8040°	87.2724°
39.	Jahanabad	23.9803°	87.2842°
40.	Jashra	23.5767°	87.7972°
41.	Kalikapur (P)	23.66204	87.70463
42.	Kamalakantapur	23.686710	87.681270
43.	Kankutia	<b>23.668690</b>	<b>87.682770.</b>
44.	Kartik danga	23.6298°	87.6397°
45.	Kendrangal	23.69633	87.64208
46.	Kesaradihi	23.7128°	87.7530°
47.	Keshabpur	23.73491	87.63715
48.	Keudaha	23.7559	87.74927
49.	Khandagram	23.7101	87.47773
50.	Khanjanpur	23.954630	87.663380
51.	Mahadebpur	23.5846°	87.7806°
52.	Mahuli	23.6230°	87.7136°
53.	Mahidapur	23.65393	87.64023
54.	Muluk	23.6536	87.72031
55.	Nurpur	23.63609	87.69016
56.	Palsa	24.4706°	87.8623°
57.	Panchshoa	23.62579	87.74865
58.	Bahadurpur	24.4228°	87.8427°
59.	Islampur	23.6791°	87.6304°
60.	Bergram	23.7317913	87.6272
61.	Binuria	23.6664°	87.6322°
62.	Raipur	23.6311°	87.6569°

63.		Rajatpur	23.6287°	87.6963°
64.		Ramchandrapur	23.620377	87.671214
65.		Ratanpur	23.7449°	87.7086°
66.		Rup pur	23.6645°	87.6014°
67.		Salan	23.7358°	87.6014°
68.		Sangri	23.7485°	87.7505°
69.		Sarpalehana	23.7385°	87.7277°
70.		Sattore	23.7132°	87.6304°
71.		Senkapur		
72.		Sitapur	23.7068°	87.7480°
73.		Srichandrapur	<b>23.668690</b>	<b>87.682770</b>
74.		Sundipur	23.7196°	87.6075°
75.		Supur	23.59776	87.67552
76.		Surul	23.6653°	87.6556°
77.		Taltor	23.7052°	87.6895°
78.		Uttar Chandipur	<b>23.668690</b>	<b>87.682770</b>
79.		Radhanagar	23.9721°	87.7972°
80.	Illambazar	Achhaipara	23.6642°	87.5816°
81.		Akamba	2363271	87.47278
82.		Amkhoi	23.6279°	87.5421°
83.		Batikor	23.7699722	87.5024758
84.		Beledanga	23° 56	88° 15
85.		Daronda	23.37283	87.36298
86.		Etapur	23.6046°	87.5767°
87.		Galtia	23.7052°	87.5421°
88.		Gopalnagar	23.6352°	87.6310°
89.		Gopinathpur	23.7069	87.72342
90.		Ghurisha	23.66283	87.50221
91.		Halsidanga	23.6171°	87.6162°
92.		Jahanabad	23.9803°	87.2842°
93.		Kamarpara	23.6470°	87.6260°
94.		Kandpur	23.7184°	87.5334°
95.		Mangaldihi	23.7799°	87.5701°
96.		Muragachhi	23.6694°	87.4443°
97.		Payer	23.6394°	87.5173°
98.		Ramnagar	23.6468°	87.6112°
99.		Shrichandrapur	23.6051°	87.6063°
100.		Shripur	23.6571°	87.5074°

101.		Takipur	24.3101°	87.9047°
102.		Ushahar	23.81947	87.72342
103.		Sahebdanga	23.6017°	87.5884°
104.	Dubrajpur	<u>Asanshuli</u>	23.8628°	87.3637°
105.		Alipur	23.8113°	87.5315°
106.		Baidyanathpur	23.8872°	87.3128°
107.		Basahari	23.7279°	87.4728°
108.		Belbuni	23.8072°	87.9126°
109.		Bishalpur	23.7945°	87.4567°
110.		Burema		
111.		Ekkabbarpur	23.8870°	87.3885°
112.		<u>Elema</u>	23.8091°	87.4393°
113.		<u>Gadadharpur</u>	24.0144°	87.6920°
114.		<u>Ganra</u>	23.7275°	87.4480°
115.		<u>Kashthagaria</u>	23.8590°	87.4474°
116.		<u>Katapalan</u>	23.8485°	87.3103°
117.		<u>Kaythanpur</u>	23.8253°	87.3451°
118.		<u>Khandagram</u>	23.7101°	87.4777°
119.		Khasbazar	23.7101°	87.4777°
120.		<u>Kholakuri</u>		
121.		<u>Mandarhati</u>	23.8038°	87.4814°
122.		<u>Narayanpur</u>	24.2425°	87.6951°
123.		<u>Paduma</u>	23.7157°	87.4579°
124.		<u>Punglapur</u>	23.8605°	87.3153°
125.		Protabpur	23.8799°	87.3240°
126.		<u>Sahapur</u>	23.7878°	87.5025°
127.		<u>Selarpur</u>	23.7832°	87.4938°
128.		<u>Tapaspur</u>	23.8108°	87.4530°
129.		<u>Uttar Madanpur</u>	23.8314°	87.3109°
130.		Lokpur	23.86704	87.2808
131.		Jahidpur	23.8327°	87.2581°
132.	Khoyrasole	Bankata		

133.		Bamunibohal			
134.		Khanni			
135.		Putka	23.8728°	87.2544°	
136.		Shibpur	23.6403°	87.6766°	
137.		Kamalpur	23.6451°	87.5501°	
138.		PurbaShibpur			
139.		Demurtita	23.8513°	87.3004°	
140.		Anandanagar	23.8618°	87.3041°	
141.		Perua	23.8105°	87.3047°	
142.		Goplapur	24.5620°	87.8206°	
143.		Moynadal	23.7708°	87.2879°	
144.	1	Rajnagar	<u>Abadnagar</u>	23.8914°	87.2991°
145.	2		<u>Bandi</u>	23.9035°	87.3091°
146.	3		<u>Barkonda</u>	23.9327°	87.3699°
147.	4		Barbelia		
148.	5		Baromase		
149.	6		<u>Dhaka</u>		
150.	7		<u>Faridpur</u>	23.6986°	87.5952°
151.	8		<u>Gulalgachhi</u>	23.9277°	87.3339°
152.	9		Gurkata		
153.	1		<u>Kathgharia</u>	23.9170°	87.3178°
154.	1		<u>Khayradihi</u>	23.9028°	87.3575°
155.			Khaspur	24.1814°	87.7813°
156.			Kabjabuni		
157.			Laujore	23.9400°	87.3587°
158.			<u>Madhaipur</u>	23.9052°	87.4084°
159.			<u>Malkura</u>	23.9324°	87.3525°
160.			<u>Murdaganja</u>	23.9752°	87.3339°
161.			<u>Murgathali</u>	24.0098°	87.2743°
162.			Nityanagar		
163.			<u>Padampur</u>		
164.			<u>Parashia</u>	23.9101°	87.3488°

165.		<u>Patadanga</u>	23.9189°	87.4294°	
166.		<u>Rajnagar (CT)</u>	23.95°	87.32°	
167.		<u>Sajina</u>	23.9648°	87.4183°	
168.		<u>Shankarpur</u>	23.9212°	87.3041°	
169.		<u>Takipur</u>	23.7465°	87.5711°	
170.		<u>Talpukur</u>	24.0201°	87.2681°	
171.		<u>Tantipara</u>	23.9046°	87.3736°	
172.		<u>Tarasol</u>	23.9509°	87.3873°	
173.		<u>Tentulia Bandh</u>	23.9099°	87.3389°	
174.		Nijhuri			
175.	1	\`Suri-II	Majhigram	23.7877°	87.6197°
176.	2		Bansankha		
177.	3		Dusankha		
178.	4		Sitapur	23.7068°	87.7480°
179.	5		Kendua	23.8819°	87.7283°
180.	6		Ghorapara		
181.	7		Talibpur	23.7685°	87.5501°
182.	8		Jamuri	23.8048°	87.5408°
183.	9		Tahala		
184.	1		Palashi	23.7669°	87.5414°
185.	1	Md.Bazar	Alupahairi		
186.	2		<u>Baidyanathpur</u>	23.8872°	87.3128°
187.	3		Beldanga	23.8454°	87.1361°
188.	4		Beria	23.7860°	87.7739°
189.	5		<u>Birupur</u>	23.9962°	87.5223°
190.	6		<u>Buritola</u>		
191.	7		<u>Barshal</u>	24.1502°	87.7800°
192.	8		<u>Chak Raipur</u>	24.0992°	87.6507°
193.	9		Choukisal		
194.	1		Choubatta		
195.	1		<u>Dewangani</u>		
196.	1		Dewalganj	24.0567°	87.5915°



197.	1	Hirmadanga		
198.	1	<u>Jaypur</u>	23.6640°	87.5473°
199.	1	<u>Jethia</u>	24.0958°	87.6236°
200.		<u>Jetkepara</u>		
201.		<u>Kadampur</u>		
202.		Kadamhir		
203.		Kukradihi		
204.		<u>Kabirpur</u>	23.9002°	87.5631°
205.		<u>Kusumkandar</u>		
206.		Kedriganj		
207.		<u>Khayrakuri</u>	23.9546°	87.5223°
208.		<u>Maladanga</u>	23.9667°	87.5371°
209.		<u>Muralpur</u>	24.1088°	87.5025°
210.		Sagardihi		
211.		Seorakuri		
212.		<u>Shankarpur</u>	23.9212°	87.3041°
213.		<u>Sukna</u>	23.9829°	87.5285°
214.		<u>Tulshiban</u>		
215.		Vejana		
216.	Labpur	Bharjuli		
217.		Bikrompur		
218.		Bheramari	23.7355°	87.5816°
219.		Benapara		
220.		Chouhatta		
221.		Daspara	23.8084°	87.3741°
222.		Dakhsin Durgapur		
223.		Dhandanga	23.8436°	87.8264°
224.		`Gobindapur	23.6487°	87.7394°
225.		Gajipara		
226.		Gopdighi	23.8378°	87.7603°
227.		Indas		
228.		Khairidanga		

229.		Kusumgoria		
230.		Kalinagar	23.7379°	87.8439°
231.		Koloni		
232.		Kotoghasha		
233.	1	Lohatta		
234.	1	Nabagram	23.9548°	87.4468°
235.	2	Sundipur		
236.	2	Sasthinagar		
237.	Sinthia	Bheramari	23.7355°	87.5816°
238.		Bolarpur	23.6712°	87.6919°
239.		Digha	23.758621	87.632211
240.		Goraipur	23.773227	87.701365
241.		Khayerpara		
242.		Narayanpur	23.758401	87.631908
243.	Mayurewsar-II	Chhotutrigram		
244.		Radhyanagar		
245.		Mandalpur	23.9805°	87.7840°
246.		Khatpur		
247.		Daspal		
248.	Rampurhat-I	Joualbhanga	24.3218	87.62835
249.		Salbandra	24.13802	87.62653
250.	Rampurhat-II	Khalilpur		
251.		Nowpara	24.16'33.6"	87.69'36.2"
252.		Barmollika	24.5'36"	87.5'21"
253.		Kashipur	24.0926°	87.8617°
254.		Nisparun	24.5'30"	87.52'4"
255.		Saikia		
256.		Bijuri	23.9309°	87.6223°
257.		Tarapur	24.1030°	87.8071°
258.		Karkoria	24.0954°	87.7935°
259.		Kalikapur	23.6647°	87.7136°

260.		Sahapur	23.7878°	87.5025°
261.		Joysinhapur		
262.		Dangal	24.7'18"	87.45'1"
263.		Joghar	23.2164	87.8783
264.		Gangedda	24.0831°	87.8734°
265.		Ustapara	24.0804°	87.8881°
266.		Imamnagar	24.0960°	87.8863°
267.		Budhigram	24.0893°	87.8857°
268.	Nalhathi-I	Paikapara	24.3086°	87.8488°
269.		Kukhura	24.3385°	87.8611°
270.		Bujung	24.2546°	87.9188°
271.	Nalhathi-II	Khalilpur		
272.		Kalitha	24.2985°	87.8722°
273.		Bhabanipur	23.9684°	87.3724°

**2. Summary of Major Activities undertaken by the RKVK  
from 2015-16 to 2019-20**

Year	On Farm Trial				Front Line Demonstration			
	Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
	Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
<b>2015-16</b>	11	12	140	147	399	420	856	420
<b>2016-17</b>	12	12	152	152	441	448	441	448
<b>2017-18</b>	10	10	127	141	1110	1720	1110	1720
<b>2018-19</b>	08	08	493	493	1100	1273	1200	1273
<b>2019-20</b>	08	08	120	130	500	568	500	568
<b>Total</b>	<b>49</b>	<b>50</b>	<b>1032</b>	<b>1063</b>	<b>3550</b>	<b>4429</b>	<b>4107</b>	<b>4429</b>

Year	Training				Extension Activities			
	Number of Courses		Number of Participants		Number of Activities		Number of Participants	
	Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
<b>2015-16</b>	106	130	3232	3786	463	473	16261	44707
<b>2016-17</b>	128	115	2707	3942	300	368	19000	40907
<b>2017-18</b>	96	131	3112	4054	485	528	21751	60165
<b>2018-19</b>	97	108	2742	3526	300	384	4000	5224
<b>2019-20</b>	104	121	3150	4064	300	360	4000	4957
<b>Total</b>	<b>531</b>	<b>605</b>	<b>14943</b>	<b>19372</b>	<b>1848</b>	<b>2113</b>	<b>65012</b>	<b>155960</b>

**Refresher course for Grass Root level  
Extension functionaries**



**Women Empowerment Programme**



**Training Programme on Azolla Production**



Vegetable nursery bed preparation



Training programme on Pradhan Mantri Fasal BimaYojana





Deploma in Agriculture Extension Services for Input Dealers - 2017  
Rathindra Krishi Vigyan Kendra, Visva Bharati, Sriniketan, Birbhum





**3. Cluster Front Line Demonstration (CFLD) Programme on Pulses and Oilseeds** started during winter season of 2015 throughout the country. It was a great idea of Honorable Prime Minister of India. The objective is to increase production and productivity of Pulses and Oilseeds using recent technologies. The price of pulses and oilseeds in the Indian market will not be hiked. Thus, the import of Pulses and Oilseeds are reduced and lots of foreign money has been saved.

**Activity of RKVK on CFLD during 2015-16 to 2019-20**

Year	Area covered (ha.)	No. of farmers benefited	New Technologies Introduced
<b>2015-16</b>			<p><b>New varieties:</b></p> <p><u>Pulses:</u></p> <p>Blackgram- WBU-109, PU-31</p> <p>Green gram- IPM 02-03, Samrat</p> <p>Chickpea- Anuradha, JAKI-9248</p> <p>Lentil- WBL-77, HUL-57</p> <p>Field Pea- Rachna, Provat</p> <p><u>Oilseeds:</u></p> <p>Mustard- NC-1, NRCHB-01-01, YSH-04-01</p> <p>Linseed- Deepika, Sekhar</p> <p>Sesame- Savitri, G-2</p> <p>Groundnut- Dharani</p> <p><b>Micronutrient:</b> Zn EDTA and B-20 spray</p> <p><b>Herbicide:</b> Pendimethalin and Whipsuper</p>
Pulse	80	460	
Oilseeds	103	289	
<b>Total</b>	<b>183</b>	<b>749</b>	
<b>2016-17</b>			
Pulse	100	388	
Oilseeds	100	269	
<b>Total</b>	<b>200</b>	<b>657</b>	
<b>2017-18</b>			
Pulse	90	505	
Oilseeds	130	415	
<b>Total</b>	<b>220</b>	<b>920</b>	
<b>2018-19</b>			
Pulse	100	546	
Oilseeds	55	334	
<b>Total</b>	<b>155</b>	<b>880</b>	
<b>2019-20</b>			
Pulse	40	208	
Oilseeds	130	608	
<b>Total</b>	<b>170</b>	<b>816</b>	
<b>Grant Total</b>	<b>928</b>	<b>4022</b>	



**4. Following Capacity development and skills enhancement initiatives are taken by RKVK**

Name of the capacity development and skills enhancement scheme	Year of implementation	Number of students	Name of the agencies involved with contact details
Carp Seed Rearing and Nursery Pond Management	2016-17	20	National Fisheries Development Board (NFDB), Department of Fisheries, Ministry of Agriculture and Farmers' Welfare, Govt. of India, "Fish Building", Pillar No. – 235, PVNR Expressway, SVPNPA Post, Hyderabad, Telengana – 500052. E-Mail ID. – <a href="mailto:ce.nfdb-dadf@gov.in">ce.nfdb-dadf@gov.in</a> ; <a href="mailto:info.nfdb@nic.in">info.nfdb@nic.in</a> Web Site: - <a href="http://nfdb.gov.in">http://nfdb.gov.in</a> Telephone No. – 040-2400-0201; 040-2400-0177 Fax: - 040-2401-5568
Preparation of Scientific Fish Feed (Granular / Pellet) and Its Method of Application in Ponds	2016-17	20	-Do-
Agriculture Skill Council of India (ASCI) organized and National Skill Development Corporation (NSDC) affiliated Skill Development Training on the Job Role "Hatchery Production Worker"	2016-17	20	Agriculture Skill Council of India (ASCI), Ministry of Skill Development & Entrepreneurship (MSDE), Govt. of India, 6th. Floor, GNG Building, Plot No. 10, Sector - 44, Gurugram, Haryana - 122 004. E-Mail ID. - <a href="mailto:psg@asci-india.com">psg@asci-india.com</a> ; <a href="mailto:shyam@asci-india.com">shyam@asci-india.com</a> ; <a href="mailto:affiliation@asci-india.com">affiliation@asci-india.com</a> Web Site: - <a href="https://asci-india.com">https://asci-india.com</a> Tel.: 0124 4670029/ 4814673/ 4814659
Agriculture Skill Council of India (ASCI) organized and National Skill Development Corporation (NSDC) affiliated Skill Development Training on the Job Role "Animal Health Worker"	2016-17	20	-Do-

Agriculture Skill Council of India (ASCI) organized and National Skill Development Corporation (NSDC) affiliated Skill Development Training on the Job Role "Agriculture Extension Service Provider"	2017-18	20	-Do-
Agriculture Skill Council of India (ASCI) organized and National Skill Development Corporation (NSDC) affiliated Skill Development Training on the Job Role "Hatchery Production Worker"	2018-19	20	-Do-
Agriculture Skill Council of India (ASCI) organized and National Skill Development Corporation (NSDC) affiliated Skill Development Training on the Job Role "Agriculture Extension Service Provider"	2018-19	20	-Do-
Agriculture Skill Council of India (ASCI) organized and National Skill Development Corporation (NSDC) affiliated Skill Development Training on the Job Role "Hatchery Production Worker"	2019-20	20	-Do-
Agriculture Skill Council of India (ASCI) organized and National Skill Development Corporation (NSDC)	2019-20	20	-Do-

affiliated Skill Development Training on the Job Role "Small Poultry Farmer"			
Diploma in Agricultural Extension Service for Input Dealers (DAESI)	2018-19	40	National Institute of Agricultural Extension Management (MANAGE), Ministry of Agriculture and Farmers' Welfare, Govt. of India, Rajendranagar, Hyderabad - 500 030, Telangana. E-Mail ID. – helpline@manage.gov.in, Phone No. - 040-24594509. Address: DAESI, MANAGE, Rajendranagar, Hyderabad - 500 030, Telangana State, India. E-Mail ID. - balasubramani@manage.gov.in, Phone No.. - 040-24594500/509
Diploma in Agricultural Extension Service for Input Dealers (DAESI)	2019-20	40	-Do-

**5. Number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students per year.**

Total number of Collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and student's year wise during the last five years

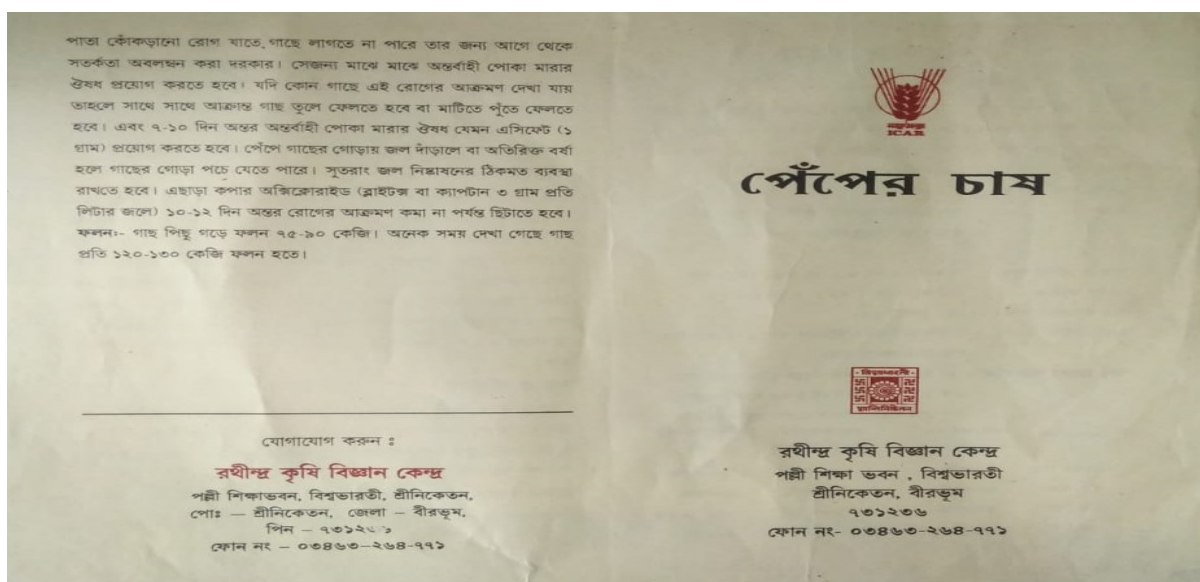
<b>Title of the collaborative activity</b>	<b>Name of the collaborating agency with contact details</b>	<b>Source of financial support</b>	<b>Year of collaboration</b>	<b>Duration</b>	<b>Nature of the activity</b>
Field Experience Training (FET) Programme as a Part of the FOCARS (Foundation Course)	ICAR – NATIONAL ACADEMY OF AGRICULTURAL RESEARCH MANAGEMENT (NAARM) Rajendranagar, Hyderabad - 500030, Telangana, India	Total cost of the Programme was borne by the ICAR-	2015-16	21 Days	The nature of the activities is to provide an opportunity to the scientist trainees to focus research

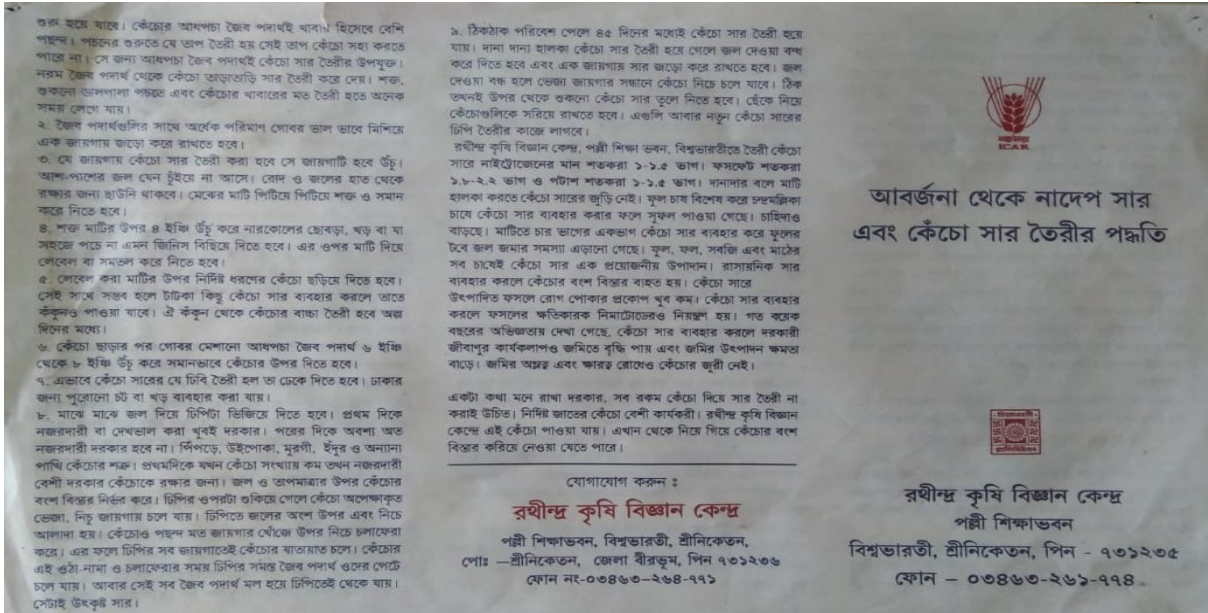
for Agricultural Research Services) for the Newly Recruited Agricultural Research Service (ARS) Scientists (On-Probation)	Phone No. -091-40-24581300/333 Fax - 091-40-24015912 E-Mail ID.: - <a href="mailto:director@naarm.org.in">director@naarm.org.in</a>	NAARM			efforts on field realities and needs of stakeholders by employing participatory rural appraisal methodology
Short Term Research Activities on Pulse and Farmers' Participatory Trial through Front Line Demonstration (FLD) under Agricultural Technology Management Agency (ATMA), Birbhum	Government of West Bengal Department of Agriculture Office of the Project Director, ATMA, Birbhum Suri, Birbhum.  E-Mail ID. - <a href="mailto:paobirbhum@gmail.com">paobirbhum@gmail.com</a>	Total cost of the Programme i.e. Rs. 2.75 lakhs was borne by the Agricultural Technology Management Agency (ATMA), Birbhum	2019-20	One Year	Popularization of crop diversification through pulse cultivation in summer season under irrigated area of Birbhum district and Assessment of liming dose in profitable manners in increasing productivity of Black Gram

**6. Extension literature on Improved Technology on Agriculture and Allied published by Rathindra KVK, PSB, Visva-Bharati**

Year	Number of Extension Literature Published	Circulation
2015-16	16	4000
2016-17	27	7000
2017-18	06	3000
2018-19	08	4000
2019-20	06	4000
Total	63	22000

**Picture of two extension literature**





**7. Popular Articles on Improved Technology on Agriculture and Allied published In the Leading Bengali Newspaper written by RKVK, PSB, Visva-Bharati**

Year	Number of Popular article Published	Circulation
2015-16	5	These are published in the <b>Ananda Bazar Patrika, Panchayet O Amra, Bardhaman Jyoti, Janadarpan, Prani Bikash and Sobuj Sona</b>
2016-17	12	
2017-18	2	
2018-19	6	
2019-20	3	
Total	28	

**Picture of two popular articles**





**8. Details of technology assessed / refined / generated by Rathindra Krishi Vigyan Kendra, PSB, Visva-Bharati during the period under review**

Technology	Relevance	Status of transfer	
<b>(A) Agriculture</b>			
i) Transplanting of <b>one seedling</b> /hill at 2-leaf stage (15-18 days old) with spacing of <b>30 cm X 30 cm</b> and organic manure 10 ton/ha produced higher paddy yield and return without use of much water in summer seasons.	In Birbhum District <i>boro</i> paddy is generally cultivated depending on underground water causing depletion of water table. Random use of water, improper plant spacing and more seedlings per hill causes poor yield and net return.	-	To Line Department
ii) Seed treatment ( <i>Tricoderma viridis</i> 6 g./kg of seed) + Mancozeb (2.5g/lit at 20 DAS) + Metalaxyl - Mancozeb (2.5g/lit at 3 5DAS) + Dimethomorph - Metera(1g+3g/lit at 45 DAS) is recommended for higher production of Potato.	Sometimes, no seed treatment in Potato is done by the farmers. But, mostly the farmers use traditional pesticides for seed treatment. They are very reluctant to use recent Third Generation pesticides for Late Blight of potato.	To FLD	To Line Department
iii) The herbicides Metsulfuron-methyl + chlorimuron-ethyl (Sathi) @ 4 g a.i. /ha at 7-12 DAT fetched the higher BC ratio in kharif paddy.	Due to scarcity of labour, hand weeding in proper time is not possible in kharif paddy. Control of algal weeds, ferns, broad leaves is more laborious. Beside this, hand weeding is expensive which ultimately increase the cost of cultivation.	To FLD	To Line Department
iv) Soil Testing Based NPK management using the source of Urea, SSP and MOP produced higher yield and net return.	Imbalanced use of NPK particularly higher dose of nitrogen causes poor yield of yellow sarsoon under irrigated lateritic soil.	To FLD	To Line Department
v) Fenoxaprop-P-ethyl @ 60 ml a.i./ ha as early post emergence (15-20 DAS) significantly reduced the weed population and increased yield of summerblack gram	The farmers sow pulse seeds by broadcasting. After a few days weeds compete with the crop. No mechanical weeding is possible in broadcasted field.	To FLD	To Line Department

vi) Oat + lentil (1:1) food fodder intercropping system produced higher productivity of green fodder and fetched higher profit	Farmers are not willing to afford land for green fodder cultivation due to low crop productivity and profitability under sole fodder cultivation	To FLD	-
vii) Soil Test Based NPK application (Basal and topdressing) and Spraying of Micronutrient Zn, B and Mo as per requirement may be recommended for Sesame cultivation in post rainy season for lower flower drop, better pod filling and yield.	Low crop productivity due to low flower set and low pod filling of sesame in post rainy season	To FLD	To Line Department
<b>(B) Horticulture</b>			
i) 75:50:25 NPK Kg/ha + Vermicompost 75 qui/ha produced higher yield of broccoli.	Broccoli a high value vegetable cultivated during rabi season for good economic return. However, improper use of fertilizer the growth and yield performance are not up to the mark.	To FLD	-
ii) Indam-902 (bacterial wilt tolerant hybrid ) produced higher yield of brinjal.	Brinjal is very popular vegetable in Birbhum District during <i>rabi</i> season. The farmers are getting heavy loss due to infestation of bacterial wilt of brinjal	-	To Line Department
iii) Snow white (powdery mildew tolerant hybrid) produced higher yield of cucumber.	Cucumber cultivation in Birbhum District is very economical. But presently the farmers now incur heavy loss due to infestation of powdery mildew	-	To Line Department
iv) Super Helmate variety of early cabbage exhibited significantly higher yield	There is a high demand of early cabbage in the local market of Birbhum. Therefore, the farmers are interested to cultivate early variety of Cabbage for better market price.	-	To Line Department
v) Suminis-4151 (Early cauliflower hybrid) variety exhibited significantly higher yield than those of farmer's practice	There is a high demand of early cauliflower in the local market of Birbhum. Therefore, the farmers are interested to cultivate early variety of Cabbage for better market price	-	To Line Department

vi) Soil Test Based Lime application @ 10% of the lime requirement will produce significantly better growth, yield components, yield and B:C in Garden Pea Cultivation through management of acid soil economically.	Due to lower soil pH (higher acidity), less flower and pod formation of Garden Pea is being noticed. According to farmers' practice, application of lime is not being performed. So yield of Garden Pea is low.	-	To Line Department
<b>(C) Live Stock</b>			
i) Nano form of micro-nutrient may be used for better performance of Black Bengal Goat.	No existing practice of supplementation of mineral for goat at farmers door step	To FLD	-
ii) Homemade feed Supplement (1.5 Kg /cow/day) may be used for economical production performance of Cross Breed Milch Cattle	Poor feeding practices and the low availability of quality feeds in unorganized dairy farming by small and marginal farmer.	To FLD	-
<b>(D) Poultry</b>			
i) RIR poultry bird is better than Vanaraja and Deshi poultry bird. Vanaraja can be a suitable alternative dual-purpose poultry bird under backyard management system.	The poor body weight, poor egg production and poor egg weight of rural deshi poultry birds	To FLD	To Line Department
ii) Application of probiotic and combination of probiotic and multiple enzymes acted beneficially on productive performance of broiler	Potential of antibiotic resistant strains of bacteria and transfer of antibiotic resistance genes from animal to human	To FLD	-
iii) Chlorine di oxide may be used for better performance in broiler chicken in the district	Poor drinking water quality of commercial broiler farm negatively affected performance	To FLD	-
<b>(E) Fishery</b>			
i) Proper and scientific Management of the Ponds along with the regular feed application of Rice bran (50 %) + M. O. C. (30 %) + Azolla (20 %) is being recommended for micro level fish farming situation.	To enhance the growth of fish, it has been found that aquatic weeds such as azolla, <i>Wolffia salvinia</i> or pistia, if added to rice bran and mustard oil cake can increase the quality of feed as these aquatic weeds supply a lot of protein and mineral to the simple feed.	-	To Line Department
ii) Application of Yeast (2%) + Cobalt Chloride (0.1%) + Scientific feed in the nursery pond increased significantly the survival rate and also	The survival rate of fish spawn is low in the nursery ponds and as well as rearing ponds. The farmers do not apply regular scientific fish feed supplemented with growth promoters.	To FLD	-

increased the early growth (fry stage) at 30 days.			
iii) Lime (@10 kg / 0.13 ha) + Terramycin (@ 5 – 7 gm. / 100 kg. of Fish Feed) significantly reduced the spread of ulcerative disease of Fish	Rapid spread of ulcerative disease due to absence of right selection of medicine for the disease	To FLD	-
<b>(F) Intregrated Farming System</b>			
i) Composite fish culture (IMC, prawn) + Poultry farming (RIR and Black Australorp 150 nos) + Pulses (Redgram- Blackgram) exhibited higher profit	Lack of knowledge in integration of components in proper way for maximum profit	-	To Line Department
ii) Composite fish culture (IMC) + Duck farming (Khaki Campbell 21 nos) + <i>Azolla</i> + Pulses (Redgram- Blackgram) exhibited higher profit	Lack of knowledge in integration of components in proper way for maximum profit	-	To Line Department
<b>(G) Agril Extension</b>			
i) Experiential Learning should be used as Training Method for Skill Development trainings as far as possible.	The selection of appropriate Training Methods is important for an effective learning. The Training Methods refer to a combination of various instructional media used for conducting the Training to achieve the learning objective efficiently and effectively.	-	To Line Department
<b>(H) Women Empowerment</b>			
i) Vegetables Stored in Modified Earthen Pot Cool Chambers performed significantly better in minimum loss of weight during all the date of observation for all the vegetables	In Semi-Arid Red Lateritic Zone situation of Birbhum District, due to extreme hot climatic conditions, vegetables get spoiled very quickly especially in the absence of proper storing system. In addition to this, the villagers can avail fresh vegetables once in week from the Weekly Haat held at their villages.	-	To Line Department

**Picture of Technology assessed**



## 9. Few technologies (or more) that have created impact in sizable areas and made RKVK credible

Sl. No.	Name of the Technology	Brief Details of Technology	Net Return to the farmer (Rs.) per ha per year due to the technology	No. of farmers adopted the technology in the district
1	Cultivation of Kharif Oilseed Crop Sesame, Var. - SWB-32-10-1 (Sabitri)	<p><b>Variety:</b> - Seeds of Improved Variety SWB-32-10-1 (Sabitri) @ 6 kg. / ha</p> <p><b>Herbicide application:</b> - Application of herbicides Pendimethalin @ 3 lit. / ha at 1 – 3 DAS.</p> <p><b>Sulphur application</b></p> <p><b>Micro-Nutrient Spray:</b>-Foliar Spray of Micro-Nutrients: - Zn EDTA @ 1 gm. / lit. of water at 25 and 45 DAS.</p>	Rs. 33,265.00 / ha. / Annum	216
2.	Crop Diversification through Cultivation of High Value Low Volume Vegetable viz. Broccoli	<p><b>Spacing:</b> 2.0 feet x 2.0 feet</p> <p><b>Time of Planting</b> - August – October</p> <p><b>Seed Treatment</b> – Treated with 2 - 2.5 gm Thiram / litre of water.</p> <p><b>Application of Manure per hectare</b> – Compost- 20-25 ton; 160 (100 + 60) kg Urea; 550 kg SSP; 170 kg MoP</p> <p><b>Application of Micro-nutrients</b> - 1 - 1.5 kg Molybdenum and 20 kg. Sodium borate per hectare before planting</p>	Rs. 1,52,500.00 / ha. / Annum	107
3.	Jute based Rural Handicrafts	<p><b>Improved Techniques:</b> - Decorative Use of Jute for producing Pen Stand, Decorative Horses, Statues of Lord Buddha, Flower Vases, many other customized products as per the needs and creative demands of the customers.</p> <p><b>Materials:</b> - Jute, Gums, Hard Boards, Coloured Beads, Coloured Jutes etc.</p> <p><b>Designs:</b> - As per the requisite product.</p> <p><b>Plan of Works:</b> - At first design drawing is done, then a Mould is made with Paper based on that drawing, then Jute or Jute Threads are attached on the Paper mould with adhesive and finally it is decorated with Coloured jutes and or Coloured Beads.</p>	Rs. 72,000.00 / Annum	29
4	Modern Kantha Stitch Works	<p><b>Improved Techniques:</b> - Traditionally “Kantha Stitch” Design was used on wrappers but now its shape, size are modified with Coloured Threads so that it can be used on dress designing and accessories like Side Bags, Bags, Sharee, Shirts, Pujabees, Blouse Piece, Top, Kurti etc. giving it a further value addition.</p>	Rs. 96,000.00 / Annum	1000

		<p><b>Materials:</b> - Cloth, Thread, Tracing Paper, Carbon Paper, Different Sized Frames, Different Sized Needles etc.</p> <p><b>Designs:</b> - As per the requisite product and Consumer's preference.</p> <p><b>Plan of Works:</b> - At first the design is drawn on a Plain Paper, then the impression of the Design is put on the Clothe with the help of Tracing Paper or Carbon Paper and then according to the design, the "Kantha Stitch" Work is carried out on the Clothe by different coloured Threads.</p>		
5.	Introduction of Giant Prawn ( <i>Macrobrachium rosenbergii</i> ) as A New Component of Composite Fish Culture	<p><b>Pond Preparation:</b> - Bottom pond muck is to be removed and liming @ 10 – 15 kg. / 0.13 ha. Manuring is to be done with Cowdung @ 2 – 3 Quintals / 0.13 ha. SSP is to be given @ 10 kg. / 0.13 ha.</p> <p><b>Water Quality Management:</b> -pH. is to be maintained within a range of 7.5 to 8.0 through liming.</p> <p><b>Fish Feed Management:</b> - Rice Bran, Groundnut Oil Cake, Fish Meal and Dry Yeast Powder in the ratio of 50: 30:10:10 respectively @ 3 – 5 per cent of Total Body Weight of the stocked Fish and Prawn.</p> <p><b>Aeration Technique:</b> - Through using 0.5 HP – 1.0 HP Pump daily @ 2 hours / day.</p> <p><b>Fish Health Management:</b> - Use of Potassium Per Manganate (KMnO<sub>4</sub>) @ 150 grams / 0.13 ha / month and Aquahealth @ 100 ml. / 0.13 ha. / 3 Months Interval.</p>	Rs. 3,40,000.00 / ha. / Annum	35
6.	Proper blending of Technologies and Products for Scientific Dairy farming	<p><b>Crossbreeding and Breed up-gradation through Artificial Insemination (A. I.)</b> in cattle is the most suitable and economical technique for generating higher genetic and production potential.</p> <p><b>Conscientious heat detection,</b> detection of oestrous by fern pattern of cervical mucus and proper timing of insemination is ensured.</p> <p><b>Crossbreeding in indigenous low producing cattle with superior germplasm</b> influences the genetic potential of the crossbred so born. The age at puberty have been attended at 2 to 2.5 years of age.</p> <p><b>All the female calves have to be fed properly</b> from the beginning of the birth so that they attain desired body weight and maturity at an early age.</p> <p><b>Cultivation of green fodder and feeding the Cattles with area specific mineral mixture are ensured.</b></p> <p><b>The traditional feeding practice is to be modified</b> by providing mineral mixture, concentrate and green forages and formulation of low cost feed.</p> <p><b>After parturition animals usually always come to heat up to 2- 2 1/2 months.</b></p> <p><b>Proper vaccination and medical check-up</b> schedules and medicine regimes are to be followed.</p>	Rs. 4,88,400.00 / A Dairy Unit consisting of 25cows (15 crossbreed and 10 upgraded deshi Cows) + 20 Calves / Annum	25

7.	Production enhancement through improved back yard farming utilizing Improved Poultry Breeds viz. Vanaraja and Rhode Island Red (RIR)	<p><b>Backyard poultry farming with rural improved breeds.</b>  <b>Breed up gradation</b> by crossing these two breeds viz. Vanaraja and Rhode Island Red with local birds.  <b>Hatching of eggs of both Vanaraja and Rhode Island Red by using local hen.</b>  <b>Supply chicks and fertile eggs</b> of improved rural poultry breed.  <b>Construction of a low-cost poultry house</b> made of locally available materials, such as bamboo and wood as night shelter and to protect the birds from predators.  <b>Birds are to be let loose as free-range scavenging for utilizing the feed base</b>, i.e., fallen grain, insect, earthworm, kitchen waste, green grass etc. with supplementary feeding of concentrate mixture prepared by the locally available feed resources.  <b>Almost one fourth of the amount of concentrate mixture may be replaced by Azolla (<i>Azolla pinnata</i>) and vegetables like Kalmi(<i>Ipomoea aquatica</i>) and Spinach (<i>Spinacia oleracea</i>) etc.</b> as per suggestion of the Scientists.  <b>De-worming and vaccination</b> of birds are to be done as per the standard protocol with technological backstopping by the Scientists. On the advice of the Animal Science Scientists administration of the F<sub>1</sub> LaSota and R<sub>2</sub>B Vaccines against Ranikhet Disease and IBDV Intermediate Strain Vaccine against Gumboro disease are to be done.</p>	Rs. 63,265.50 / Batch / Unit of 20 Numbers of Deshi Birds + 20 Numbers of Rhode Island Red Birds + 20 Numbers of Vanaraja Birds / Annum	<b>65</b>
8.	Low Cost Commercial Vermin-Composting Unit	<p><b>Earth-Worms(<i>Eisenia foetidae</i>)</b> are being used.  <b>Low cost pits</b> built-up with mainly bare bricks covered Polythene Sheets are to be used.  <b>Organic farm and domestic wastes</b> along with cow dung are to be used as compost culture media.  <b>Regular optimum watering of compost media</b> is to be ensured.  <b>Sieving and packaging of usable Vermin-Compost</b> is done as and when necessary.</p>	Rs. 85,714.00 / Annum	<b>51</b>
9.	Feeding of Quality Green Fodder both Leguminous and Non-Leguminous to Milch Cattles	<p><b>Recommended Package of Practices for Fodder Cultivation</b> such as Land Preparation, Fertilizer Application, Timely Sowing, Fertilizer Application, Irrigation Scheduling, Integrated Pest Management Practices and Harvesting Schedules.  <b>Short Duration Varieties</b> of Fodder Crops viz. Maize, Cow Pea etc. between two seasonal crops.  <b>Cultivation of Cereal Fodder Crops like Maize, Sorghum, Oat etc. with Fodder Legumes like Cow Pea, Berseem etc.</b>  <b>Cultivation of Multi-Cut Varieties of Fodder Crops</b> at regular intervals to get optimum production.</p>	Rs. 54,850.00 / Cow / Lactation	<b>169</b>



		<p><b>Legume and Non-Legume Fodders should be mixed in 1: 3 ratio.</b>  <b>For lactating Crossbred Milch Cows, the production ration contains 1.25 + 1 kg concentrate per 2.5 kg Milk Production and requires 25 to 30 kgs. Green Grasses when Green Grass is plenty.</b>  <b>For lactating DeshiMilch Cows, the feed schedule consists of 1 + 1 kg. Concentrate per 2.5 to 3.0 kg Milk Production with up to 20 kg. Fodder feeding.</b>  <b>Every 10 kgs. Fodder feeding will reduce 1 kg. Concentrate feeding and thus reducing the cost of inputs.</b></p>		
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#### 10. Soil Testing and Soil Health Cards Issued

<b>Inputs</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>Total</b>
Soil Samples tested	666	81	219	97	72	1135
Soil Health Card issued	666	81	219	97	51	1114
No. of Farmers benefitted	666	81	219	97	72	1135

**Distribution of Soil Health Card by Sri Chandra Nath Singh, Honourable Minister of Fishery, Govt of West Bengal, Sri Bikash Roy Chowdhury, Savadhipati, Birbhum Zila Parishad, Honourable Vice Chancellor, Visva-Bharati, Pro Vice-Chancellor, Visva-Bharati, Principal Scientist, ICAR and KVK Scientist in the year, 2015-16**



# Distribution of Soil Health Card by Professor Biswapati Mandal, Eminent Soil Scientist, Bidhan Chandra Krishi Viswa Vidyalaya, Honourable Registrar, Visva-Bharati, Principal, Palli Siksha Bhavana Visva-Bharati and KVK Scientist in the year, 2017-18





## রথীন্দ্র কৃষি বিজ্ঞান কেন্দ্র

পল্লী শিক্ষা ভবন, বিশ্বভারতী  
ত্রিানিকোতন, বীরভূম-৭৩১২৩৬, পশ্চিমবঙ্গ

**সম্মেলন হেল্থ কার্ড**  
মাটির স্বাস্থ্য সংক্রান্ত বিবরণ পত্র





!...সার পরে স্বাস্থ্য কক্ষ। যে স্বাস্থ্যই স্বাস্থ্য  
স্বাস্থ্যই এই হচ্ছে সেই স্বাস্থ্যই স্বাস্থ্য।  
অন্যভাবে যা। অন্যভাবে মুখ। প্রতিদিন স্বাস্থ্য  
সেই-সেইভাবেই স্বাস্থ্য স্বাস্থ্যই স্বাস্থ্য। .....  
— রথীন্দ্র কৃষি বিজ্ঞান কেন্দ্র

!...সার পরে স্বাস্থ্য কক্ষ। যে স্বাস্থ্যই স্বাস্থ্য  
স্বাস্থ্যই এই হচ্ছে সেই স্বাস্থ্যই স্বাস্থ্য।  
অন্যভাবে যা। অন্যভাবে মুখ। প্রতিদিন স্বাস্থ্য  
সেই-সেইভাবেই স্বাস্থ্য স্বাস্থ্যই স্বাস্থ্য। .....  
— রথীন্দ্র কৃষি বিজ্ঞান কেন্দ্র

**International  
Year of Soils  
2015**



**Healthy Soils  
for  
a Healthy Life**

কৃষকের সংক্রান্ত তথ্য	
নাম	
প্রিকালন	
গ্রাম	
উপ-জেলা/সদরদপ্তর	
পোস্ট অফিস	
ডিলা	
আখ্যার নাম	জেটার কার্ড নং
মোবাইল নম্বর	

মাটির নমুনা সংক্রান্ত তথ্য		
মাটির নমুনা নম্বর		
নমুনা সংগ্রহের তারিখ		
সংগ্রহ স্থান		
খসড়া নম্বর / মাল নম্বর		
জে. এল. নম্বর		
জমির পরিমাণ		
জমির ভৌগোলিক অবস্থান (Geo Position (GPS))	সর (Latitude)	পূর্বাংশ (Longitude)
সেচন / সেচ বিধি		
জমির অবস্থান (উঁচু/মোকাড়/নীচ)		
মাটির পরীক্ষার প্রকার		
কোন শিক্ষার স্বাক্ষর		
জমির বিশেষ কোন অসুবিধা থাকলে তার বিবরণ		
জমির ভৌগোলিক স্থানাঙ্ক		
জমির কোন অংশ চাষ করছেন?		

পল্লীশিক্ষার নাম		মাটির নমুনা পরীক্ষার ফল			
ক্রমিক সংখ্যা	মাটির বৈশিষ্ট্য	পরিমাপ একক	মাত্রা	মাত্রা	মাত্রা
০১.	ওক্সিজেন (O <sub>2</sub> )	%			
০২.	বিজিয়া (pH)				
০৩.	কার্বন এক্সেস কোপসিটি (EC)	mS/cm			
০৪.	জৈব কার্বন (Organic Carbon (OC))	%			
০৫.	প্রাপ্যমান নাইট্রোজেন (Available Nitrogen (N))	Kg/ha			
০৬.	প্রাপ্যমান ফসফরাস (Available Phosphorus (P))	Kg/ha			
০৭.	প্রাপ্যমান পটাশিয়াম (Available Potassium (K))	Kg/ha			
০৮.	প্রাপ্যমান সালফার (Available Sulphur (S))	mg/kg			
গ্রহণযোগ্য অনুপাত সীমা					
০৯.	প্রাপ্যমান জিঙ্ক (Available Zinc (Zn))	mg/kg			
১০.	প্রাপ্যমান বোরন (Available Boron (B))	mg/kg			
১১.	প্রাপ্যমান লৌহ (Available Iron (Fe))	mg/kg			
১২.	প্রাপ্যমান ম্যাঙ্গানিজ (Available Manganese (Mn))	mg/kg			
১৩.	প্রাপ্যমান তাম্র (Available Copper (Cu))	mg/kg			

মাটির নমুনা পরীক্ষার ফলাফলের ত্রিভুজিক নির্দিষ্ট ফল পাওয়ার জন্য সার (জৈব সার) কত প্রমাণিত হওয়া উচিত							
ক্রমিক সংখ্যা	ফলন এবং জাত	নির্দিষ্ট ফলন (Reference value) (কে. জি./ হেক্টর) (Kg./ha)	সার সংরক্ষণ (কে. জি./ হেক্টর) (Kg./ha)	সার সংরক্ষণ (কে. জি./ হেক্টর) (Kg./ha)	সার সংরক্ষণ (কে. জি./ হেক্টর) (Kg./ha)	সার সংরক্ষণ (কে. জি./ হেক্টর) (Kg./ha)	সার সংরক্ষণ (কে. জি./ হেক্টর) (Kg./ha)
০১.	প্রথম ফসল						
০২.	দ্বিতীয় ফসল						
০৩.	তৃতীয় ফসল						
০৪.	চতুর্থ ফসল						
০৫.	পঞ্চম ফসল						
০৬.	ষষ্ঠ ফসল						

মাটির নমুনা পরীক্ষার ফলাফলের ত্রিভুজিক নির্দিষ্ট ফল পাওয়ার জন্য সার (জৈব সার) কত প্রমাণিত হওয়া উচিত							
ক্রমিক সংখ্যা	ফলন এবং জাত	নির্দিষ্ট ফলন (Reference value) (কে. জি./ হেক্টর) (Kg./ha)	সার সংরক্ষণ (কে. জি./ হেক্টর) (Kg./ha)	সার সংরক্ষণ (কে. জি./ হেক্টর) (Kg./ha)	সার সংরক্ষণ (কে. জি./ হেক্টর) (Kg./ha)	সার সংরক্ষণ (কে. জি./ হেক্টর) (Kg./ha)	সার সংরক্ষণ (কে. জি./ হেক্টর) (Kg./ha)
০১.	প্রথম ফসল						
০২.	দ্বিতীয় ফসল						
০৩.	তৃতীয় ফসল						
০৪.	চতুর্থ ফসল						
০৫.	পঞ্চম ফসল						
০৬.	ষষ্ঠ ফসল						

**মাটির স্বাস্থ্য কার্ড**

ক্রমিক সংখ্যা	উপসরণ	সুপারিশ সীমা
০১.	সার / জৈবসার	
০২.	জৈবসার	
০৩.	জৈবসার	

১ কে. জি. নাইট্রোজেন = ১ কে. জি. ১০০ গ্রাম ইউরিয়া  
 ২ কে. জি. ফসফরাস = ৩ কে. জি. ১০০ গ্রাম এম. এম. বি. অথবা  
 ৩ কে. জি. পটাশিয়াম = ২ কে. জি. ১০০ গ্রাম ডি. এ. ডি.  
 ৪ কে. জি. সালফার = ১ কে. জি. ১০০ গ্রাম এম. এম. বি.



**DEPARTMENT OF AGRICULTURE & COOPERATION**  
Ministry of Agriculture & Farmers Welfare  
Government of India



**RATHINDRA KRISHI VIGYAN KENDRA**  
Palli Siksha Bhavana (Institute of Agriculture)  
Visva-Bharati



Swathi Datta, Khat Hana

Soil Health Card No. : \_\_\_\_\_

Name of Farmer : \_\_\_\_\_

Validity : From \_\_\_\_\_ To \_\_\_\_\_

কৃষকের স্বাস্থ্যকার্ডের স্বাক্ষর  
কৃষিক এবং তার পরিবারের  
কর্তা

কৃষকের স্বাস্থ্যকার্ডের স্বাক্ষর  
কর্তা কৃষি বিশেষজ্ঞ  
পল্লী শিক্ষা ভবন

কৃষকের স্বাস্থ্যকার্ডের স্বাক্ষর  
কর্তা কৃষি বিশেষজ্ঞ  
পল্লী শিক্ষা ভবন

মাটির স্বাস্থ্য কার্ড : ১৩৩৬৬-১৩৩৬৬-১৩৩৬৬  
 ই-মেইল : rathindrakvk@gmail.com  
 ওয়েব সাইট : www.rkv.ac.in

## 11. Entrepreneur development during the period 2015-16 to 2019-20

Year	No. of Training Programmes	Total Duration (days)	Target Group – Rural Youths			Impact			
			Male	Female	Total	Type of units	No. of units	No of persons employed	No. of persons employed elsewhere
2015-16	07	126	106	00	106	Large Scale Vermi-compost Unit, Horticultural Nursery, Para-Extension Service Provider, Soil Analysis and Soil Health Card Preparation Unit, Rural Poultry Units, Private Para-Vets, Fish Hatchery	30	60	46
2016-17	08	177	138	40	178	Horticultural Nursery, Soil Analysis and Soil Health Card Preparation Unit, Para-Vets, Jute based Handi-Crafts, Fish Hatchery, Fish Hatchery, Mushroom Production Units, Animal Health Service Provider	52	72	74
2017-18	04	81	62	25	87	Mobile Soil Testing Units using Kits, Quail Farm, Piggery, Para Extension Worker	35	35	08
2018-19	04	101	67	23	90	Units for preparing Organic Inputs like Vermin-Compost, Azolla, Earth Worms etc.; Fish Hatcheries; Goat Farms; Para Extension Worker	46	46	34
2019-20	07	106	110	36	146	Yet to be established	-	-	-
<b>Total</b>	<b>30</b>	<b>591</b>	<b>483</b>	<b>124</b>	<b>607</b>		<b>163</b>	<b>213</b>	<b>162</b>

**12. HRD programmes like Workshops, Winter School, HRD training etc. undergone by KVK personnel during the year 2015-16 to 2019-20**

2015-16	2016-17	2017-18	2018-19	2019-20	Total
18	20	29	13	14	94

**13. Nationally Awarded Farmers attached with Rathindra Krishi Vigyan Kendra, Palli Siksha Bhavan, Visva-Bharati**

**A.** Sri Tapan Kumar Ghosh (associated with the Rathindra KVK) was awarded with the Innovative Farmer Award by the Honourable Union Cabinet Minister of Agriculture and Farmers' Welfare, Govt. of India, Sri Radha Mohan Singh on 21/03/2016, for the Innovative 4 Row SRI Marker at the Krishi Unnati Mela – 2016 organized by the ICAR-IARI, Pusa, New Delhi held at the Pusa Campus of ICAR-IARI, New Delhi.



**Figure. Sri Tapan Kumar Ghosh being felicitated by the Honourable Union Cabinet Minister for Ministry of Agriculture and Farmers' Welfare, Govt. of India, Sri Radha Mohan Singh**

B. Sri Abdul Majid (associated with the Rathindra KVK) was awarded for Excellence in Agriculture Sector for his contribution in the commercial seed production of High Yielding improved Varieties of Elephant Foot Yam by the Hounurable Union Cabinet Minister for the Ministry of Agriculture and Farmers' Welfare, Govt. of India, Sri Radha Mohan Singh on 22.02.2016 at the Foundation Day Celebration of Eastern Regional Research Complex of ICAR at Patna.

C. Sri AmalenduSaha (associated with the Rathindra KVK) was awarded for Excellence in Agriculture Sector for his excellent service as a Private Para-Vet by the Hounurable Union Cabinet Minister for the Ministry of Agriculture and Farmers' Welfare, Govt. of India, Sri Radha Mohan Singh on 22.02.2016 at the Foundation Day Celebration of Eastern Regional Research Complex of ICAR at Patna.



**Figure. Awarded Farmers at the Foundation Day Celebration of Eastern Regional Research Complex of ICAR at Patna on 22.02.2016**



**Figure. D. Shri Tapan Kumar Ghosh (On the Left Side of Shri Radha Mohan Singh Ji) was being conferred the Innovative Farmer Award for his Pioneering Role in Back Yard Poultry Farming with Rural Improved Poultry Breed and with a focus on Breed Up-gradation by the Honorable Minister of Agriculture and Farmers' Welfare, Shri Radha Mohan Singh Ji on 22.02.2018 at the ICAR Eastern Regional Research Complex, Patna, Bihar.**





**14. Grants for research projects sponsored by the government agencies during the last five years (INR in Lakhs) at RKVK**

Year	2015-16	2016-17	2017-18	2018-19	2019-20
<b>INR in Lakhs</b>	9.0	9.0	14.55	17.35	22.05

Name of the Project	Name of the Principal Investigator	Department of Principal Investigator	Year of Award	Funds provided	Duration of the project	Funding Agency	Total amount of funds received
CFLD on Pulse	Dr. Subrata Mandal	Rathindra KVK	2015-16	6.0 +6.0 .35 +9.60 +3.60 =32.55 lakh	2015-16 to 2019-20 and continuing	Ministry of Agriculture and Farmers Welfare, GOI, through ICAR	30.25
CFLD on Oilseeds	Dr. Subrata Mandal	Rathindra KVK	2015-16	3.0 +3.0 .20 +2.95 +12.40 =28.55 Lakh	2015-16 to 2019-20 and continuing	Ministry of Agriculture and Farmers Welfare, GOI, through ICAR	23.67

DAMU of Gramin Krishi mousamSewa (GKMS) Scheme	Dr. Subrata Mandal	Rathindra KVK	2018-19	4.80 lakh	Continuing on the basis of year wise sanction	IMD, Govt. of India through ICAR	4.80
Short Term Research Activities on Assessment of liming dose in profitable manners in increasing productivity of Black Gram and Farmers' Participatory Trial on crop diversification through pulse cultivation in summer season under irrigated area of Birbhum district	Dr. Subrata Mandal	Rathindra KVK	2019-20	Rs. 2.75 Lakhs	One Year	Agricultural Technology Management Agency (ATMA), Dept. of Agriculture, Govt. of West Bengal, Birbhum	2.75
Paramparagat Krishi Vikas Yojona (PKVY)	Dr. Subrata Mandal & Dr. Prabudha Ray	Rathindra KVK	2019-20	3.30 lakh	1year	Ministry of Agriculture and Farmers Welfare, GOI, through ICAR	3.30



**CFLD ON PULSES**







**CFLD ON OILSEED**









## DAMU of Gramin Krishi MousamSewa (GKMS) Scheme



भाकृअनुप-कृषि तकनीकी अनुप्रयोग संस्थान कोलकाता  
ICAR-Agricultural Technology Application Research Institute Kolkata

भारतीय कृषि अनुसंधान परिषद  
INDIAN COUNCIL OF AGRICULTURAL RESEARCH  
साल्ट लेक, कोलकाता - 700 097  
Salt Lake, Kolkata - 700 097  
Website: www.atarikolkata.org

F. No. 4(11)/ATARI/Ko/ DAMU/2018-19  
14 January 2019

To  
The Vice Chancellor  
Viswa Bharati  
P.O. Srimiketan,  
Dist. Birbhum - 731235

Sub: Release of fund for setting up of District Agro-Met Units (DAMUs) at KVK for the year 2018-19- reg.

Sir,

With reference to above cited subject, I am directed to inform that an amount of Rs. 4,80,000/- (Rupees four lakh eighty thousand only) has been remitted on 14.01.2019 released through PFMS to your account for setting up of District Agro-Met Units (DAMUs) at KVKs by Indian Meteorological Department (IMD), MoES, New Delhi for the financial year 2018-19. The KVK-wise details of fund released are given below:

Sl. No.	Name of KVK	Amount to be released now
1	Birbhum	4,80,000.00
	<b>Total</b>	<b>4,80,000.00</b>

The utilization of the funds per KVK per year may be done as per the details given below:

- Remuneration/salary of manpower (Basix, GP, DA & HRA) as per 6<sup>th</sup> CPC or 7<sup>th</sup> CPC on prorata basis.
  - SMS (Agrometerology) =Rs. 15600-39100 (GP-Rs.5400/-) or Level 10
  - Agromet Observer =Rs. 5200-20200 (GP Rs. 2000/-) or Level 3
- Contingency =Not exceeding limit of Rs. 100000/-
- Travel = Not exceeding limit of Rs. 60000/-
- Computer/Laptop with accessories = Not exceeding limit of Rs. 60000/-
- Outreach including FAP = Not exceeding limit of Rs. 35000/-

Kindly acknowledge the receipt.

Thanking you,

Yours faithfully,

Asstt. Administrative Officer

Copy forwarded for kind information to:

- The Sr. Scientist and Head, KVK, Birbhum.

**Short Term Research Activities on Assessment of liming dose in profitable manner in increasing productivity of Black gram and farmers Participatory Trial on crop diversification through pulses cultivation in summer season under irrigated area of**

**Birbhum district.**

PKVY







## 15. Few best cases by Rathindra KVK during 2016 and 2017

### 1. A Group of Farmers – enhancing Farm Income by manifold through cultivation of Ekangi (*Kaempferia galanga*) - a Medicinal Plant while Searching for Crop Diversification

**Name of the Farmers:** Bipadtaran Ghosh, Subodh Ghosh, Subhash Ghosh, Jogen Ghosh, Kartik Ghosh and others.

Village: Kartikdanga, P.O.- Raipur, Dist. – Birbhum, Pin. – 731204, West Bengal, India.

**Contact Details:** Mobile Phone No.- 8900484426

**Land holding (ha):** 6.7 ha.

**Name and description of the farmers / enterprise:** It is also known as aromatic ginger, kencur etc. cultivation of Ekangi (*Kaempferia galanga L.*), a medicinal plant was imitated by the Rathindra KVK (RKVK) in the Kartikdanga village in kharif season, in mono cropped paddy area as crop diversification programme. Ekangi has several medicinal properties. Its rhizome powder is used as appetite enhancer, stomach-ache. The rhizome extract is largely used as liminant for rheumatism, repellent of mosquito and nematode against *Melidogyne* in wheat.

**Intervention of RKVK in package of practice:** RKVK prepared a package of practice suitable for this locality by cultivating Ekangi in small plots in RKVK medicinal plant garden.

- Totally rainfed
- Time of planting – May-June with nor-wester
- Seed rate: 7.5 q/ha (Rhizome of 4 cm length of 2 buds)
- Land Preparation: Only 2 cross ploughing with levelling.
- Choice of land: Medium to upland with proper drainage facility in mono cropped area.
- Planting: Spacing 25 cm X 25 cm, depth: 4 cm.
- Seed treatment: Dipped in solution of *Trichoderma viridi* (4 gm/kg seeds).
- Manures & fertiliser: Well rotten FYM 10 ton/ha as basal.
- Top dressing at one month after planting: Urea 75 kg/ha, SSP- 600 kg/ha. MOP- 100 kg/ha.
- Top dressing after three months of planting: Urea – 75 kg/ha.
- Intercultural operation: Weeding at 2<sup>nd</sup> and 4<sup>th</sup> week, then straw mulching.
- Herbicide use: Spraying of Glyphosate @ 5 ml/lit of water at 15 days after planting.
- Harvest: 6-8 months after planting.
- Yield: 300-350 q/ha.

### Economic Impact

Before cultivation of Ekangi they cultural paddy variety MTU-7029 and earned net return of Rs. 22,500.00 per ha in their rainfed mono cropped area with B:C ratio of **1.82**.

After crop diversification with Ekangi cultivation initiated by RKVK the economics of cultivation is as follows:

2016-17					
Av. Yield	Av. Price	Gross Cost (Rs. /ha)	Gross return (Rs. /ha)	Net Return (Rs. /ha)	B:C ratio
112 quintal / ha	Rs. 800 / quintal	14,8,500.00	89,600.00	7,47,500.00	6.03

2017-18					
Av. Yield	Av. Price	Gross Cost (Rs. /ha)	Gross return (Rs. /ha)	Net Return (Rs. /ha)	B:C ratio
130 quintal / ha	Rs. 800 / quintal	1,65,000.00	10,40,000.0 0	8,75,000.00	6.3

The product is being sold to big businessmen of Murshidabad. The Businessmen come with truck to their village for purchasing the product.

**Social Impact** – As the farm income is getting increased by manifold, the group cohesiveness is being solidified. Other farmer outside the Group is being more and more attracted to cultivate the Ekangi crop.

**Environmental impact** – Totally rainfed, so there is no loss of water. Total rain water is used for production. Crops cover the fields within 3 Months, so no Soil erosion is occurred due to heavy rain or heavy wind. Evaporation is lowered down from the area, so Soil Water table is maintained properly.

It is a herbal or medicinal crop. The products from it is always herbal or without Chemical. Use of the products from it helps to reduce the chemical load to human body as well as nature.

#### Horizontal Spread

Vertically yield has been increased to 16 % for 2016-17 to 2017-18. In the year 2015-16, three farmers of Kartikdanga started ekangi cultivation with the help of RKVK in 0.26 ha area. It increased in 4 ha area with 15 farmers in that village in the year 201-17 and further it was cultivated in 6.7 ha land in that village with 25 farmers. Beside that it is now spreaded to others 7 villages in another 30 farmers of surrounding 3 other blocks of the district.





Ekangi (*Kaempferia galanga*) Cultivation as crop diversification for doubling farmers income- an initiative taken by RKVK, Birbhum, W.B- a Success story



## **2. A Successful Innovative KVK Farmer involved in innovating Low Cost Resource Conservation Technologies**

**Name of farmer** - Sri Tapan Kumar Ghosh

**Address** - Village – Bishnubati, C. D. Block – Bolpur - Sriniketan, P. O. – Sattore, P. S. – Sattore, Dist. – Birbhum, Pin. – 731236, West Bengal, **Contact details (Phone, mobile, email Id)** – Mobile Phone No. - 9614057093

**Landholding (in ha.)** –1.33

**Name and description of the farm / enterprise –**

**I. Problem / Challenge addressed: -**

**(A) Agro-Ecological Farming Situation** – The native District of the Innovator, Sri Tapan Kumar Ghosh is Birbhum District is in the red lateritic zone of the State of West Bengal with erratic and deficient rain-fall especially in the Rabi Season and having a soil structure with less water holding capacity.

**(B) Problem to be solved** – Low Water Use Efficiency of Boro Paddy subsequently gives rise to increased irrigation cost and depletion of ground water resource for the cultivation of Paddy (especially in Rabi Season) and decreases the net return.

**II. Description of Innovative Practice / Technology: -**

**(A) Back Ground of Innovation: -** SRI is an acronym for System of Rice Intensification. This improved method of rice cultivation was developed in 1983 in Madagascar and has now spread to many parts of the world. SRI is not a new variety or a hybrid. It is only a method of cultivation. SRI is showing promising results in all rice varieties – local or improved.

Marking the plot before transplantation to ensure proper rows and spacing, and weeding are necessitating development of appropriate implements. Transplanting at wider spacing (10 x 10 inches or 25 cms. x 25 cms.) allows enough sunlight to reach the leaves of each rice plant thus reducing competition for water, space and nutrients resulting in the spread of roots and healthy growth of plants (the distance can be increased depending on soil fertility). Preparation of the main field in SRI is the same as in conventional method. Field should be evenly prepared and there should not be standing water in the field during transplantation.

In SRI method, seedlings are widely spaced (10 inches x 10 inches or 25 cms x 25cms) and only one seedling is transplanted per hill (3-4 seedlings per hill in conventional system). SRI method can accommodate only 16 hills /sq. meters as against 33-40 hills/ square meter in conventional method. Uniform spacing is also required for easy weeding by implements. To maintain uniform spacing, different methods can be employed.

Small pegs can be tied to a rope at 25 cm or 10 inch distance and by using this rope; row after row transplantation can be done. Different types of “Markers” are being developed for this purpose. These markers need to be run over the prepared field lengthwise and width wise. Transplanting at the marked intersection gives the required 25 cms x 25 cms spacing. Some of

the newly developed markers draw 8 rows and columns simultaneously. These markers need to be pulled at an even pace for proper marking. To have the lines straight, it is advisable to tie a rope and pull the marker alongside the rope. For smooth transplantation, field operations like bunding, levelling and marking with marker should be completed a day before the transplantation.

**(B)Need for SRI Marker: – It is an absolute necessity of marking the exact points in the Paddy plot at where the transplantation of seedlings would have to be performed to ensure proper rows and spacing, and weeding for SRI Techniques of Paddy Cultivation**

**(C) Guiding Principles of Innovative Portable SRI Marker (4 Rows): -**

- ❖ Needs to have **built-in adjustability to change the distance** between the rows
- ❖ Needs to have an arrangement for direct sowing of seeds
- ❖ Needs to have an **arrangement to mark both the pathways simultaneously**
- ❖ Needs to be designed **with a facility to add weight**
- ❖ **Needs to be amenable to working in the fields where green manure is applied.**

**(D)Technology Details: -**

- Adjustable Plant Spacing of Paddy Seedlings (25 cm X 25 cm and 30 cm X 30 cm) can be marked using the Innovative Portable SRI Marker.
- In case of 25 cm X 25 cm Plant Spacing – 4 rows of Paddy Seedlings can be marked.
- In case 30 cm X 30 cm Plant Spacing – 3 rows of Paddy Seedlings can be marked.
- This Innovative SRI Marker is light weight, made of locally available GI pipes and iron rods.
- The Innovative SRI Marker (4 Rows) is easily dismountable and transportable.
- This is a very low-cost implement, costing only Rs. 2,400.00 (Rupees Two thousand four hundred) only.
- The maintenance cost of this Implement is also low.
- The Working Efficiency of the Innovative Portable SRI Marker is 0.3 – 0.4 ha per day (8 hours).
- The Cost of transplanting 1 ha area using this implement is Rs. 2,730.00 (cost of Labour and Seeds).
- Cost of transplanting 1 ha area in traditional method is Rs. 6,300.00 only (cost Labour and Seeds).

**(E)Cost of Innovative SRI Marker: – It is very low cost, locally made implement and costs nearly Rs. 2,400.00 (Rupees Two Thousand Four Hundred) only.**

**Economic impact** - This Innovative Portable SRI Marker is a very low cost locally made Implement costing about Rs. 2,400.00 only. This Implement is a labour and time saving device. In Traditional Method, 40 labours are required for Transplanting Paddy Seedlings, while using the Innovative SRI portable Marker only 18 labours are required. It is also of utmost importance that in the Traditional Method, 7.5 kgs. of Paddy Seedlings is required while using this Implement, only 1 kg of Paddy Seed is required for 1 ha of Paddy Fields. It is to be noted that

the Cost of transplanting 1 ha area using this implement is Rs. 2,730.00 (cost of Labour and Seeds); while the cost of transplanting 1 ha area in traditional method is Rs. 6,300.00 only (cost Labour and Seeds). The savings using this Innovative Implement is Rs. 3,570.00 which is higher than the actual cost of the Implement i.e. Rs. 2,400.00 only. So, this Innovative Portable SRI Marker is highly economic and viable in the field level functioning.

**Economics / Profitability of Innovative Practice/ Technology (Costs and Return) (per intervention or area or household): -**

<b>Transplanting Using SRI Marker</b>	<b>Traditional Transplanting</b>
➤ Man Days Required – <b>18 / ha</b>	➤ Man Days Required – <b>40 / ha</b>
➤ <b>Requirement of Paddy Seeds –1 kg</b>	➤ <b>Requirement of Paddy Seeds – 7.5 kg</b>
➤ <b>Cost of Transplanting / ha (Labour + Seeds) –Rs. 2,730.00</b>	➤ <b>Cost of Transplanting / ha (Labour + Seeds) –Rs. 6,300.00</b>

From the above Table, it is to be noted that the Cost of transplanting of Paddy Seedlings for 1 ha area using this implement is Rs. 2,730.00 (cost of Labour and Seeds); while the cost of transplanting of Paddy Seedlings for 1 ha area in traditional method is Rs. 6,300.00 only (cost Labour and Seeds). The savings using this Innovative Implement is Rs. 3,570.00 which is higher than the actual cost of the Implement i.e. Rs. 2,400.00 only. So, B: C Ratio is 1.5625. This Innovative Portable SRI Marker is highly economic and viable in the field level functioning.

**Social impact** –This approach of SRI has been successful in bringing the positive changes in various parameters like economic, environmental etc. in the lives of small farmers like Sri Tapan Kumar Ghosh member of a rural community. SRI as a new paradigm in Paddy farming System is focused on the sustainability of the self-reliant local communities, conservation of natural and biodiversity, production of healthy food produced using a low amount of input and empowerment of rural communities. Tremendous reduction in cost of production is one of most important axis of this System. The experience of Sri Ghosh proves that rice production does not have to depend on input subsidies. The result was so encouraging; the SRI plants were grown well compared to non SRI as well as produced a good yield. Sri Ghosh found that weeding every 10 days for four times helps the plants grown well and look healthy. Sri Tapan Kumar Ghosh clearly mentioned that SRI has made him to be more innovative, having more choices regarding farming decisions, now he produces his own bio-fertilizers like Farm Yard Manure (FYM), Vermin-Compost, Cow Dung Manure etc. and own seeds, has now increased linkages to market own product which in the Indian context thus far has been very limiting; he is now involved in short supply chain and not dependent on government subsidies.

**Environmental impact** - Through the SRI Method, Sri Tapan Kumar Ghosh is giving irrigation for SRI Paddy plots - 16 nos. each on average of 5 cm i.e. total 800 mm; whereas in the traditional Paddy cultivation method Sri Ghosh generally gives irrigation 12 nos. each on average of 10 cm i.e. 1200 mm and for seedbed of traditional plots - 6 nos. irrigation each on average 10 cm i.e. 600 mm, i.e. total 1800 mm. Thus, a huge quantity of ground water to the



tune of 1000 mm. will be saved through the adoption of SRI Method of Boro Paddy cultivation. Thus, this Innovative Low-Cost Farm Machinery also helps to preserve environment and can act as an Innovative Conservation Technology.

**Horizontal / Vertical spread –(A)** Sri Tapan Kumar Ghosh already made available the 4 Row SRI Marker to 50 numbers of farmers of own village free of cost for demonstration purposes and it has proved to be the key factor for converting 98.84 Acres of traditional Paddy Fields to SRI Paddy field in adjoining farm fields of his village.

**(B)** Farmers of the neighboring Mala Village are cultivating Paddy through SRI Method inspired by the Innovative SRI Marker of Sri Tapan Kumar Ghosh and making use of the basic principle of SRI Marking system for seedling transplantation in 65.90 Acres of land.

**(C)** National Rural Livelihood Mission (NRLM) named “Anandadhara” of Govt. of West Bengal has approached Sri Tapan Kumar Ghosh for fabrication and supply of 100 numbers of the Innovative 4 Row SRI Marker.

#### **Sri Tapan Ghosh assembling the Innovative Portable SRI Marker**



**Fellow Farmer of Sri Tapan Kumar Ghosh, Sri Monotosh Ghosh is operating the Innovative Portable SRI Marker**



**Close View of the Innovated Portable SRI Marker**



**Cross marking in single operation with the innovative Portable SRI Marker**



**Transplanting after marking with Innovative Portable SRI Marker**



### 3. Innovation in poultry production by RKKV farmer

Thematic area	Poultry Production
Name of the Innovation	Handmade Low- Cost Manual Incubator
Details of Innovator	Sri Ershad Molla, Village + P. O. – Sattore, Pin. – 731236, Dist. – Birbhum.
Back ground of innovation	Sri Ershad Molla has got the idea of a Low -Cost Manual Incubator for Poultry egg hatching through technical inputs and knowledge and skill acquired from the Scientist Rathindra KVK in the year 2017-18 and he proceeded to build up that incubator in the same year at a total expenditure of Rs. 35,000.00 (Rupees Thirty-Five thousand) and started egg hatching in 2018-19.
Technology details	Hand-made incubator (operated by both Main Line Electric and Inverter current) of 700 egg hatching capacity with around 8 cycles in a year.
Practical utility of innovation	<p>(a) According to the needs of the villagers, he operates the Incubator and achieves up to 8 cycles per years.</p> <p>(b) The farmers get the opportunity to procure Chicks or Ducklings of RIR, Deshi Duck and Khaki Campbells as per their own needs at the door step at reasonable price.</p> <p>(c) Sri Ershad Molla earns around Rs. 10,000.00 (Rupees Ten Thousand) per month with 700 egg hatching capacity of the incubator.</p> <p>(d) Normally Sri Molla buys egg for hatching at the rate of Rs. 12 per egg from the State Govt. Poultry Farm of West Bengal and also from the Rathindra KVK trained farmers of Birbhum District and sells at the rate Rs. 30 per Chick or Duckling</p>

**Sri Ershad Molla, Village + P. O. – Sattore, C. D. Block – Bolpur – Sriniketan, Pin. – 731236, Dist. – Birbhum along with his Innovative Handmade Low Cost Manual Incubator**

**4. Entrepreneurship development through dairy**

<b>Entrepreneurship development</b>	
<b>Name of the enterprise</b>	<b>Dairy of Sri Debasish Mandal</b>
<b>Name &amp; complete address of the entrepreneur</b>	Village: - Surul, P. O. – Sriniketan, Pin. – 731236, Dist. – Birbhum, West Bengal. Mobile Phone No. – 7001358872
<b>Role of KVK with quantitative data support:</b>	<p>Crossbreeding and Breed up-gradation through Artificial Insemination (A. I.). is the most suitable and economical technique for generating higher genetic and production potential. Crossbreeding in indigenous low producing cattle with superior germplasm influences the genetic potential of the crossbred so born. The age at puberty have been attended at 2 to 2.5 years of age. All the female calves fed properly from the beginning of the birth so that they attain desired body weight and maturity at an early age. The traditional feeding practice is modified by providing mineral mixture, concentrate and green forages and formulation of low- cost feed. After parturition animals usually always come to heat up to 2- 2 1/2 months.</p> <p>Sri Mandal tried hard so that no heat might be missed and insemination is being given by trained person and timely to achieve optimum pregnancy result. Post insemination confirmation of</p>

pregnancy at 60 days. Sri Debasish Mandal got educated and trained in modern profitable animal husbandry practices, especially feeding, management and care of growing calves and heifers by Rathindra Krishi Vigyan Kendra.

Poor quality of germplasm, poor nutrition and management and to some extent lack of proper animal husbandry practices and traditional misconception play an important role in less reproductive efficiency of cattle in rural area. Generally, the traditional dairy farmers are not much aware about the time when their animal should reach puberty and the young growing animals don't get proper attention and are raised on dry fodder and grazing. Thus, the age at puberty is attended as late as 4, 5 or 6 years. In this way livestock owner misses at least one crop or two-calf crop in their lifetime. Keeping this scenario in mind, the Technological Back-stopping from the Rathindra Krishi Vigyan Kendra regarding the adoption of A. I., formulation of low- cost feed, supplementation with mineral mixture and cultivation of fodder crops helped Sri Mandal a lot to make profit from his small-scale dairy Unit.

The Rathindra Krishi Vigyan Kendra has provided Sri Debasish Mandal detailed Knowledge and Skill Development Training on

- Artificial Insemination (A. I.) in cattle
- Conscientious heat detection
- Proper timing of insemination
- Low cost feed formulation
- Feeding, management and care of growing calves and heifers
- Cultivation and feeding of green fodder

Feeding of area specific mineral mixture.

**Timeline of the entrepreneurship development**

Before the Rathindra KVK Intervention, Sri Debasish Mandal who owned 1 hectare of land was engaged in cultivation of Kharif Paddy and Potato in Rabi Season which gave him a net monthly income of Rs. 2,500.00 (Rupees Two Thousand Five Hundred) only.

Before the Rathindra KVK intervention, he has started a Small- scale Dairy Unit with Two Cross Breed Cows which give him an average Milk Production of 6 – 7 litres per cow per day. Sri Mandal's Traditional Dairy Farming was based on Feeds like Mustard Cake, Broken Rice, Hay and Straws without any presence of Green Fodder, Mineral Mixture, Concentrate Feeds in the diets of the Cows. He earned a Net

	<p>Income of Rs. 4,600.00 (Rupees Four Thousand Six Hundreds) only per Year from his Traditional Dairy Unit with a B: C Ratio of 1.27.</p> <p><b>The Present Situation: - A. Agricultural Activities:</b> - Cultivation of Paddy, Potato, Cabbage, Cauliflower and Fodder Crops like Maize, Cowpea, Sorghum and Rice Bean.</p> <p><b>B. Non-Agricultural Activities:</b> - Commercial Dairy Farming with 04 Cross Breed Cows and 02 Breed Up-graded Deshi Cows and 06 Calves.</p>
<p><b>Technical Components of the Enterprise</b></p>	<ul style="list-style-type: none"> <li>• Artificial Insemination (A. I.) in cattle</li> <li>• Conscientious heat detection</li> <li>• Detection of oestrous by fern pattern of cervical mucous</li> <li>• Proper timing of insemination</li> <li>• Low cost feed formulation</li> <li>• Feeding, management and care of growing calves and heifers</li> <li>• Cultivation and feeding of green fodder</li> </ul> <p>Feeding of area specific mineral mixture.</p> <p>1. Crossbreeding and Breed up-gradation through A. I. is the most suitable and economical technique for generating higher genetic and production potential. Crossbreeding in indigenous low producing cattle with superior germplasm influences the genetic potential of the crossbred so born giving an Average Milk Yield of 8 Litres / Cross bred Cow / Day and Breed Up-graded Cows yields about 6 Litres / Cow / Day.</p> <p>2. The age at puberty have been attended at 2 to 2.5 years of age. All the female calves fed properly from the beginning of the birth so that they attain desired body weight and maturity at an early age.</p> <p>3. The traditional feeding practice is modified by providing mineral mixture, concentrate and green forages and formulation of low- cost feed. After parturition animals usually always come to heat up to 2- 2 1/2 months.</p>

Status of entrepreneur before and after the enterprise	Parameters	Before	After
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	<p><b>Raw Material Availability:</b> - Feed Ingredients and other feed materials are procured from his own agricultural land as well Green Fodders are produced in the adjacent farm land of the dairy.</p> <p><b>Labour Availability:</b> - Family Labour is used and also local Labours are available and used.</p> <p><b>Consumer Preference:</b> - Farm milk is preferred by the consumers who are loyal customers to Sri Mandal.</p> <p><b>Marketing the product:</b> - Mainly door to door sale method is used and sold to both domestic houses and small businesses like tea stall, sweet shops etc.</p>		
Horizontal spread of enterprise		20 (Twenty) farmers in the Locality adopted the Technology and related Activities having getting an information from Sri Mandal. Sri Debasish Mandal's Cows have been awarded as "Best Milch Cattle" at the "Prani Sampada (Animal Resource) Week" organized by the Dept. of Animal Resource Development, Govt. of West Bengal.	

**Sri Debasish Mandal of Village: - Surul, P. O. – Sriniketan, Pin. – 731236, Dist. – Birbhum, West Bengal along with the Rathindra KVK Scientist at his Small Scale Dairy Farm**



## 16. Linkage establishment with other Govt. Department / NGOs

Name of Organization / Establishment	Area of collaboration / interaction
All India Radio, Santiniketan Kendra, Birbhum, West Bengal	Broadcasting of different Rathindra KVK activities as well as live Phone –In Programmes are being organized.
Doordarshan, Santiniketan Kendra, Birbhum, West Bengal	Telecasting of different Rathindra KVK activities as well as live phone –In Programmes are being organized. As a result, a vast number of farmers, farm women and rural youth are being exposed to multiple information sources regarding multiple issues. This is necessary to mention that the viewers of these Programmes have been immensely benefited by viewing Method Demonstration on various new Technologies.
Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, West Bengal	This linkage is mainly on the following aspects: - - Conducting regular basis Human Resource Development Training Programme in different discipline. - Facilitate for Annual Action Plan Development. - Facilitate on Farm Testing Modules. - Provide different location specific germ-plasm.
West Bengal University of Animal and Fishery Sciences, Belgachia, Kolkata, West Bengal	This linkage is mainly on the following aspects: - - Conducting regular basis Human Resource Development Training Programme in different discipline. - Facilitate for Annual Action Plan Development. - Facilitate on Farm Testing Modules. - Provide different location specific mineral mixture, vaccines, medicines, seeds of Improved Varieties of Green Fodder Crops.
ICAR-Indian Agricultural Research Institute (IARI),	The linkage is mainly based on Collaborative Demonstration Programme on newer Wheat and Paddy varieties. As a result of this linkage, the farmers of Birbhum District are being exposed to newer varieties

Regional Station, Samastipur, Bihar	of Wheat and scented as well as non-scented Paddy varieties. Some varieties have shown very good potential for future introduction in the District. - Provide Weather related Information for Crop based Action Plan Development.
ICAR-National Dairy Research Institute (NDRI), Eastern Regional Station (ERS), Kalyani, West Bengal	This Linkage is basically for organizing the Collaborative Animal Health Camps, Cattle Infertility Treatment Camps, Hybrid Napier Distribution Camps and for organizing Front Line Demonstrations on improved varieties of Fodder Crops like Berseem, Oat etc.
Regional Fodder Station, Kalyani, Ministry of Agriculture and Farmers' Welfare, Govt. of India, Nadia, West Bengal	This Linkage is basically for organizing the Front-Line Demonstration (FLD) Programmes on various Improved Varieties of Green Fodder.
ICAR-Indian Grassland and Fodder research Institute (IGFRI), Jhansi, Uttar Pradesh	This Linkage is basically for organizing the Front-Line Demonstration (FLD) Programmes on various Improved Varieties of Green Fodder.
Agriculture Skill Council of India (ASCI), National Skill Development Corporation (NSDC), Ministry of Skill Development and Entrepreneurship, Govt. of India, New Delhi	This linkage is for Training of Trainers, formulation of Training Courses, assessment and providing Skill Training Certificates to the Trainees of ASCI Skill Training Courses like Hatchery Production Worker, Animal Health Worker, Agriculture Extension Service Provider etc.
National Fisheries Development Board (NFDB), Ministry of Agriculture and Farmers' Welfare, Govt. of India, Hyderabad, Telengana	This linkage is for providing Human Resource Development Training to KVK Scientists as well as for organizing Long Duration Skill and Entrepreneurship Development Training Programmes to fish farmers and interested Rural Youths on different aspects of Fish Production and for hand-holding the Fish Growers for different Governmental Schemes in Fishery Sector.
National Institute of Agricultural Extension Management (MANAGE), Ministry of Agriculture and Farmers' Welfare, Govt. of India, Hyderabad, Telengana	This linkage is for providing Human Resource Development Training to KVK Scientists as well as for organizing Diploma in Agricultural Extension Services for Input Dealers (DAESI), a Long Duration Skill and Entrepreneurship Development Training Programmes for the Agricultural Input Dealers for developing them as grass-root level Extension Functionaries.
Line Departments like Agriculture, Horticulture and Food Processing Industries, Animal Resource Development, Fisheries etc. of the Govt. of West Bengal, Birbhum, West Bengal	This linkage is basically on Technological back-stopping of the Extension and developmental activities of various developmental departments of the Govt. of West Bengal.

National Research Centre on Weed Control, Jabbalpur, Madhya Pradesh	The linkage is now focusing on Technical Support for organizing Training and Awareness Camps for controlling weeds specifically weeds like <i>Parthenium</i> . The farmers of this District get immense benefit as they get exposure on <i>Parthenium</i> and other weeds through participating in " <i>Parthenium</i> Control Week Programme".
Agricultural Technology Management Agency (ATMA), Birbhum, Suri, Birbhum, West Bengal	The linkage is now focusing on Orientation Farmers' training and Programme Training for Head Master / Achiever Farmer. Various Short-Term Researches on Topics related with Fishery, Agronomy etc. are also being performed utilizing these linkages Programme.
Agricultural Technology Management Agency (ATMA), Various Districts of West Bengal	The linkage is now focusing on organizing Exposure Visits of the members of the various Block Farm Information and Advisory Centre (FIAC) Teams at the Rathindra KVK for a firsthand experience on cutting edge technologies and products related to agriculture and related sectors as well as for undergoing relevant knowledge and skill development training programmes at the Rathindra KVK, Birbhum.
National Bank for Agriculture and Rural Development (NABARD), Birbhum, Suri, Birbhum, West Bengal	The linkage mainly focuses on formation of Farmers Club, organizing Training for vulnerable areas, Organizing Technology Weeks etc. Some Farmers' Clubs are doing excellent work and they are benefitted from this Linkage.  Besides above-mentioned Linkages, NABARD, Birbhum sponsored the Technology Week – 2015 and Technology Week - 2016, organized by the Rathindra KVK in its Campus. The NABARD has also sponsored Skill Development Trainings in the Farm Sectors in the Financial Year of 2015 – 2016.
State Agricultural Management, Extension and Training Institute (SAMETI), Narendrapur, 24 Parganas (South), West Bengal.	This linkage is mainly on the following aspects - Conducting regular basis Human Resource Development Training Programme in different discipline for Scientists of the Rathindra KVK. - All the linkage activities profoundly help the Rathindra KVK clientele in updating their knowledge, skill and attitude.
Lok Kalyan Parishad, Bolpur, Birbhum	This linkage gives importance as well as focuses on Training and Demonstration for stakeholders for far flung areas of Birbhum District where Institutional Linkages with villagers of those areas are very weak.
Tagore Society for Rural Development, Santiniketan, Birbhum West Bengal	This linkage gives importance as well as focuses on Training and Demonstration for stakeholders for far flung areas of Birbhum District where Institutional Linkages with villagers of those areas are very weak.
Luthern World Services, Kolkata, West Bengal	This linkage gives importance as well as focuses on Training and Demonstration for stakeholders for far flung areas of Birbhum District, especially areas bordering Jharkhand State where Institutional Linkages with villagers of those areas are very weak.
Asansol Burdwan Seva Kendra, Burdwan, West Bengal	This linkage gives importance as well as focuses on joint Training and Demonstration for stakeholders for various non-adopted villages of Birbhum District as

	well as far flung areas of Birbhum District, especially areas where Institutional Linkages with villagers of those areas are very weak.
ManabJamin, Birbhum, West Bengal.	This linkage gives importance as well as focuses on joint Training and Demonstration for stakeholders for various non-adopted villages of Birbhum District.
BolpurKrishijaSamabay Samity, Bolpur, Birbhum, West Bengal	This linkage is basically focussing on supply of quality agricultural inputs for various FLD and OFT Programmes of the Rathindra KVK undertakes. As a result, the clientele of the Rathindra KVK is immensely benefitted through experiencing newer and better-quality agricultural inputs.
National Seed Corporation, Kolkata, West Bengal	This linkage is basically focussing on supply of quality breeder and foundation seeds of various Crops for various FLD and OFT Programmes of the Rathindra KVK undertakes. As a result, the clientele of the Rathindra KVK is immensely benefitted through experiencing newer and better-quality seeds.
West Bengal State Seed Corporation, Kolkata, West Bengal	This linkage is basically focussing on supply of quality breeder and foundation seeds of various Crops for various FLD and OFT Programmes of the Rathindra KVK undertakes. As a result, the clientele of the Rathindra KVK is immensely benefitted through experiencing newer and better-quality seeds.
Panchayati Raj Institutions (PRIs), Birbhum, West Bengal	This linkage helps the Rathindra KVK to get base-line information for choosing Target Areas both on Geographical Terms as well as on Technological Terms by going through various surveys and reports generated by the PR Institutions of the Birbhum District.
Other Krishi Vigyan Kendras (KVKs)	This linkage helps the farmers of various Districts to have an exposure and visit to Rathindra KVK and exchange ideas and experiences with farmers of the District of Birbhum and Scientists of the Rathindra KVK.
IFFCO	Collaborative trial on new fertilizers, different national programme etc.

## 17. Other Programmes conducted during the period

Sl. No	Year	Name of the Programme	Date of the Programme	No. of Participants	Brief Details of the Programme
01.	2014-15	Training Programme on "Creation of Awareness among the Farmers and Other Stakeholders about the Provisions of PPV & FR Act – 2001"	22.01.2015	100	05 Numbers of Technical Sessions on different Aspects of PPV & FR Act – 2001; 03 Numbers Publications inaugurated and distributed among the participants
02.	2014-15	Technology Week - 2015	23.02.2015 - 27.02.2015	1660	13 Numbers of Technical Sessions on different relevant Technologies; 04 Numbers of Farmers-Scientists Interactions; 08 Numbers of Video Shows; 03 Numbers of Live Demonstration of Methods of Fruit Processing: Jam, Jelly, Sauce etc. Preparation and 01 Number of Agricultural Fair.
03.	2015-16	International Soil Day -2015	05.12.2015	296	1. Distribution of 266 Numbers of free Soil Health Cards to the Farmers of different Blocks of Birbhum District; 2. Technical Session on Soil Health Management and improvement.
04.	2015-16	Pre-Rabi KisanSammelan	05.12.2015	296	1. Inauguration and distribution of seventeen (17) numbers of items of Extension Literatures like Booklets, Leaflets on various topics ranging from soil health management, improved package of practices of field crops, improved package of practices of horticultural crops, scientific

methods of animal rearing, scientific methods of fish production, good agricultural practices etc.

2. The Exhibition Stalls organized for the Pre-Rabi KisanSammelan – 2015 was well stocked with various preserved specimens of fishes, laminated display charts, poster flexes, seeds in seed display containers, various traditional varieties of seeds displayed in composite container, extension literatures like booklets, leaflets etc.

3. Demonstrations on the farm implements like Zero Tillage Seed-cum-fertilizer Drill, Rotavator, Drum Seeder, ConoWeeder, Disk Harrow, Mould Board Plough etc. were performed.

4. Method Demonstrations on the newly acquired Solar Powered Mini-Digital Soil Analyzer “Mriddhparikshak” were performed.

5. A Vegetable and Crop Show was organized.

6. Handing over the Soil Health Cards to the farmers were performed.

7. An interactive lecture on Soil Health Management in the Context of Recent Agricultural Practices was delivered.

8. A special lecture on the importance on the awareness about the need for the soil conservation practices was delivered.

05.	2015 -16	Technology Week - 2016	14.03.2016 – 18.03.2016	2973	25 Numbers of Technical Sessions on different relevant Technologies; 11 Numbers of Publications of Extension Literatures on different Technologies; 02 Numbers of Visits of Farmers' Groups to Rathindra KVK and Technology Week – 2016; 01 Number of Distribution of Organic Inputs; 04 Numbers of Video Shows; 01 Number of Method Demonstration on the process of establishment and maintenance of Medicinal Plants Garden in Back Yard and Homestead Farming Situations and 01 Number of Agricultural Fair.
06.	2016 -17	One Day Farmers' Fair and Agricultural Exhibition in relation to Pradhan Mantri FasalBeemaYojona	01.04.2016	127	The main focus was on the "Awareness Generation" of the the participant farmers, farm women and rural youths who were made aware of Pradhan Mantri Fasal Bema Yojona (PMFBY), Pradhan Mantri Krishi SinchaiYojona (PMKSY), Pradhan Mantri KoushalYojona (PMKY) etc. As part of the event, creating awareness on different agricultural schemes of Govt. of India including benefits of soil health cards, production of organic inputs, water use efficiency were organized. Besides, distribution of literatures on the relevant issues, farmer-scientist interaction and distribution of soil health cards were also done.
07.	2016 -17	One Day Farmers' Fair and Agricultural Exhibition in relation to Pradhan Mantri	07.06.2016	193	The main focus was on the "Awareness Generation" of the the participant farmers, farm women and rural youths who were made aware of Pradhan Mantri Fasal Bema Yojona (PMFBY), Pradhan Mantri Krishi

		FasalBeemaYojana			SinchaiYojana (PMKSY), Pradhan Mantri KoushalYojana (PMKY) etc. As part of the event, creating awareness on different agricultural schemes including benefits of soil health cards, production of organic inputs, water use efficiency besides conducting live demonstrations on application of various improved technologies and best practices were arranged. Besides, distribution of literatures on the relevant issues, farmer-scientist interaction and distribution of soil health cards were done.
08.	2016-17	Workshop-cum-Farmers-Scientists Interaction	20.11.2016	62	Workshop-cum-Farmers-Scientists Interaction on Improved Cultivation Practices for Pulse Crops on 20.11.2016 was organized by the Rathindra KVK. Prof. Kajal Sengupta, Dean, Faculty of Agriculture, Bidhan Chandra Krishi Viswavidyalaya was present and he answered the Questions of the farmers in this relevant subject of Pulse cultivation.
09.	2016-17	International Soil Day – 2016	05.12.2016	50	Workshop on Importance of Soil Sample Collection, Analysis and Interpretation on 05.12.2016 was organized by the Rathindra KVK. Prof. Ashish Chatterjee, Head, Dept.of Soil Science, Palli-Siksha Bhavana (Institute of Agriculture), Visva-Bharati, Sriniketan, Birbhum gave the Key Note Address and chaired the Session.40 Numbers of free-Soil Health Cards were distributed among the farmers of the different Blocks of the Birbhum District.



10.	2016 -17	Pre-Rabi KisanSammelan – 2016	09.12.2016	213	<p>The Practicing Farmers, Farm Women and Rural Youths were exposed to the cutting edge Agricultural and related Sectors Technology for modernization of agriculture and related sectors and enhancement of productivity for more income generation from a limited resource base on a sustainable basis especially on following Topics: - 1. More efficient use of irrigation water; 2. More efficient use of Fertilizers; 3. More emphasis on use of Bio-Fertilizers; 4. More use of Bio-Pesticides; 5. Organic Production Practices; 6. Crop diversification through cultivation of Pulse, oilseed, low volume high value vegetables; 7. More emphasis on rearing of Black Bengal goat and Garole Sheep; 8. Revival of production of Small Fishes like Punti, Mouralla, Dwarkey etc. Besides, these technologies, the participant farmers, farm women and rural youths were made aware of Pradhan Mantri Fasal Bema Yojona (PMFBY), Pradhan Mantri Krishi Sinchai Yojona (PMKSY), Pradhan Mantri KoushalYojona (PMKY) etc.</p>
11.	2016 -17	Dairy-cum-Krishi Mela	28.01.2017	115	<p>1. The Rathindra KVK has organized a One Day Dairy-cum-Krishi Mela at the Village: - Ghoshasldanga, Dist.: - Birbhum on 28.01.2017 in collaboration with ICAR-NDRI, ERS, Kalyani. At this Mela various Stalls were put up for exhibiting modern products, technologies and practices regarding agriculture, dairy, fishery and allied sectors by different developmental organizations like KVK, Dept. of Animal Resource Development,</p>

					<p>West Bengal University of Animal and Fishery Sciences, ICAR-NDRI, ICAR-IVRI, ICAR-NIRJAFT, different Self Help Groups from Anandadhara [groups constituted under MahilaKisanSashaktikaranPariyojona (MKSP)], reputed Non-Governmental Voluntary Organizations like Loka Kalyan Parishad, Birbhum; KabiguruPrakalpa, Birbhum etc.</p> <p>2. In this Mela, 115 numbers of participant practicing farmers, farm women and rural youths attended various programmes of which 47 numbers were from disadvantageous Scheduled Caste community, 24 were from disadvantageous Scheduled Tribe community and rest 44 persons were from other communities. Animal Exhibition of various animals of economic importance like Heifer, Goat, Duck, Hen and Cock were organized and the best animals were judged by the experts and given prizes. A Vegetable and crop show was also organized on this occasion. In this Mela, Farmers – Scientists Interface and a Quiz Contest on various aspects of Animal especially dairy animals rearing were organized and the participant farmers were very much delighted after participating in these types of scientific platform.</p>
12.	2016-17	National Science Day – 2017	28.02.2017	56	National Science Day was celebrated with great enthusiasm on 28 <sup>th</sup> . February to commemorate the discovery of Raman Effect on the same day in 1928 by Indian

					<p>physicist and Nobel Laureate Sir Chandrasekhara Venkata Raman in Rathindra KVK, Birbhum. On this day Prof. Sarthak Chowdhury, Principal, Palli-Siksha Bhavana and In-charge, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum addressed the gathering consisting of 39 rural youths on the importance of inculcating scientific spirit and logic in every- day life. Dr. Jayanta Chattopadhyaya, Vice-Principal, Palli-Siksha Bhavana, Visva-Bharati, Sriniketan, Birbhum emphasized on the continued and enhanced use of science and technology in agriculture and related sector. Smt. Ruma Addy, Programme Co-ordinator (Officiating) urged the participant rural youths to spread the message of science and technology to the farthest corners of rural areas so that the darkness of ignorance, superstition and illiteracy could be overcome with. The programme was ended with a Short Film Show on life and work of Dr. C. V. Raman, the great Indian scientist par excellence, with whom this day is associated with.</p>
13.	2017-18	Sankalp Se Siddhi	30.08.2017	701	<p>1. Taking the pledge of making the farmers' income double by the year 2022 A. D. through exposing the Practicing Farmers, Farm Women and Rural Youths to the cutting edge Agricultural and related Sectors Technology for modernization of agriculture and related sectors and enhancement of productivity for more income generation from a</p>

					<p>limited resource base on a sustainable basis.</p> <p>2. Exposing the participant practicing farmers, farm women, rural youths and grassroot level extension functionaries to the cutting edge technologies in Agriculture and related Sectors through 4 Numbers of Technical Sessions, 01 Number of Video Show, 04 Numbers of publication of Extension Literatures on new Technologies and exhibition of Technologies and Products in the organized Stalls at the Farmers' Fair.</p>
14.	2017-18	MahilaKisan Divas	15.10.2017	57	<p>1. One-day programme on "Mahila Kisan Divas" was 84organized on 15.10.2017 at Rathindra KVK Campus, Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, Sriniketan, Birbhum-731236, West Bengal.</p> <p>2. Fifty-One numbers of farm women participated in the whole day programme. Principal, Palli Siksha Bhavana, Visva-Bharati graced the occasion as chairperson.</p> <p>3. In this programme four farm women were felicitated in agriculture and allied field.</p> <p>4. In the Technical session, discussion on Women empowerment in Animal Science and Nutritional Security.</p> <p>5. After a day long discussion farm woman returned their home with satisfaction. The programme was ended with vote of thanks.</p>

15.	2017-18	International Soil Day – 2017	05.12.2017	137	<p>1. Key Note Lecture by the eminent Soil Scientist and Former Pro-Vice Chancellor, Bidhan Chandra Krishi Viswavidyalaya, Prof. Biswapati Mandal on “Soil Health Management”.</p> <p>2. Detailed discussion on methods for Soil Health Management with Farmers.</p> <p>3. Detailed Presentations on the adverse effects of Soil Health deterioration.</p> <p>4. Theoretical Classes on Soil Sample collection and Analysis.</p> <p>5. Universal Soil Health Cards were distributed among 104 numbers of farmers.</p>
16.	2017-18	Web Casting of Honourable Prime Minister's Inaugural Speech of Biennial National Conference of KVKs – 2018	17.03.2018	379	<p>1. Web Casting of Honourable Prime Minister's Inaugural Speech of Biennial National Conference of KVKs – 2018</p> <p>2. “Awareness Generation” of the the participant farmers, farm women and rural youths on the Pradhan Mantri Fasal Bema Yojona (PMFBY), Pradhan Mantri Krishi SinchaiYojona (PMKSY), Pradhan Mantri KoushalYojona (PMKY) etc. through Video Shows and distribution of literatures on the relevant issues and farmer-scientist interaction.</p>
17.	2018-19	MahilaKisan Divas - 2018	15.10.2018	68	Training Programme Film Show and Method Demonstration on Farm Women related Technologies in Agriculture and Related Sectors.

18.	2018 -19	International Soil Day - 2018	05.12.2018	75	<ol style="list-style-type: none"> <li>1. 52 numbers of Soil Health Card Distribution among the farmers of the different Blocks of the Birbhum District.</li> <li>2. Publication of Various Extension Literature on different aspects of Soil Health Management.</li> <li>3. Lectures by Eminent Professors of Soil Science on the issues related with Soil Health and its Management.</li> <li>4. Training for Practicing Farmers and Farm Women on maintenance of Soil Health and related topics.</li> <li>5. Distribution of Extension Literature among the participants on various aspects of Soil Health Management.</li> <li>6. Total Nos. of Practicing Farmers and Farm Women present: - 61</li> </ol>
19.	2018 -19	Pre-Rabi Kisan Campaign	07.02.2019	231	<p>The main focus was on the "Awareness Generation" of the the participant farmers, farm women and rural youths who were made aware of Pradhan Mantri Kisan Samman Nidhi (PM-KISAN), Pradhan Mantri Fasal Bema Yojona (PMFBY), Pradhan Mantri Krishi SinchaiYojona (PMKSY), Pradhan Mantri KoushalYojona (PMKY) etc. As part of the event, creating awareness on different agricultural schemes including benefits of soil health cards, Integrated Water Harvesting and Water Management practices, production of organic inputs, water use efficiency besides conducting live demonstrations on application of various improved technologies and best practices were arranged. Besides, distribution of literatures on the relevant issues, farmer-scientist</p>

					interaction and distribution of soil health cards were done.
20.	2018-19	Web Casting of Inauguration of PM Kisan Samman Nidhi Scheme	24.02.2019	261	<p>1. Web Casting of Honourable Prime Minister's Inauguration of PM Kisan Samman Nidhi (PM-KISAN) Scheme – 2019</p> <p>2. "Awareness Generation" of the the participant farmers, farm women and rural youths on the various aspects of the PM-KISAN Scheme as well other flagship programmes of Govt. of India for the welfare of the farmers viz. Pradhan Mantri Fasal Bema Yojona (PMFBY), Pradhan Mantri Krishi Sinchai Yojona (PMKSY), Pradhan Mantri KoushalYojona (PMKY) etc. through Video Shows and distribution of literatures on the relevant issues and farmer-scientist interaction.</p>
21.	2018-19	Birbhum District Kisan Mela - 2019	24.02.2019 to 26.02.2019	261	09 Numbers of Technical Sessions on different relevant Technologies; 03 Numbers of Farmers-Scientists Interactions; 03 Numbers of Video Shows; 10 Numbers of Publications of Extension Literature on Technologies and Products for modernization of Agriculture and Allied Sectotrs.
22	2019-20	Audio Conference	17.07.2020	38	<p>1. Market linkage with Government like eNAM and Sufala</p> <p>2. Market linkage with private vegetables purchase organization</p> <p>3. Agri Marketing process with Government set up their own Kisan Mandi for Agri Marketing</p> <p>4. Generate their own Marke</p>
23	2019-20	Audio Conference	11.07.2020	35	<p>1. Scientific Poultry rearing</p> <p>2. Health and Disease Management</p> <p>3. Market linkage of Poultry</p> <p>4.</p>

					Government initiative for livestock farmers
24	2019-20	Audio Conference	09.07.2020	56	1. Pest and Disease Management 2. Weed Management
25	2019-20	Audio Conference	08.07.2020	39	1. Source of Drum seeder 2. Direct seed sowing process 3. Fertilizer Management 4. Pest & Disease Management 5. Weed management
26	2019-20	Audio Conference	26.06.2020	39	1. Seed source of Ekangi Plant 2. Cultivation process of Ekangi Plant 3. Fertilizer Management on Ekangi Plant 4. Pest & Disease Management 5. Marketing on Ekangi Plant
27	2019-20	Audio Conference	27.05.2020	52	1. Precautionary measures of standing crops 2. Pest and disease management of standing crops 3. Marketing strategy 4. Kharif Planning
28	2019-20	Audio Conference	08.05.2020	39	1. Precautionary Measures while handing Farming 2. Agriculture Marketing during COVID 19 situation 4. Government initiative for Agriculture farmers 5. Agri products store in Home condition
29	2019-20	Audio Conference	03.05.2020	19	1. Precautionary Measures while handing livestock 2. Livestock Fodder Management Practices during COVID 19 situation 3. Alternative homemade food preparation 4. Government initiative for livestock farmers 5. Precautionary Measures in farm/ cattle house, specially sensitization process
30	2019-20	Audio Conference	29.04.2020	24	1. Precautionary measures against COVID-19 during farming 2. Social Distance in



					farming 3. Government initiative for Agriculture Farmer. 4. Pest, Disease and Nutrient Management on standing crops (Pre-kharif Oil Seed, Pulses and vegetables)
31	2019-20	World Soil day	05.12.2019	72	World Soil Day Celebration
32	2019-20	Talks on Celebration of Constitution Day	26.11.2019		1. Reading of Citizens' Duties by all the KVK staff. 2. Reading of Fundamental Duties by Agricultural Input Dealers of Birbhum District at Rathindra KVK. 2.
33	2019-20	Programme on Fertilizer Application Awareness on 22-11-2019.	22.11.2019	116	Programme on Fertilizer Application Awareness on 22-11-2019.
34	2019-20	Programme on Fertilizer Application Awareness on 22-11-2019.	10.11.2019	201	Programme on Fertilizer Application Awareness on 22-11-2019.
35	2019-20	Swachhta Hi Sewa (SHS-2019) activities by KVKs	11/09/2019 to 02/10/2019	771	1) Cleaning of Administrative Building of Rathindra KVK, Birbhum by the KVK Employees, 2) Cleaning of Instructional Orchard of Rathindra KVK, Birbhum by the KVK Employees, 3) Rally for swachh Bharat, 4) Awareness generation programme for practicing farmers, farm women, rural youths, grass root level extension functionaries like input-dealers, 5) Web-Casting of Launching of Swachhata Hi Seva by the Honourable Prime Minister of India Sri Narendra Modi Ji on 11-09-2019 in Mathura, Uttar Pradesh etc.

36	2019 -20	Jal Shakti Abhiyan Report ATARI Zone-V, Kolkata	12.07.2019	33	Training on Direct Seeding of Rice to save water
37	2019 -20	Jal Shakti Abhiyan Report ATARI Zone-V, Kolkata	20/07/201 9	23	Training on Green Manuring to hold water in the field
38	2019 -20	Jal Shakti Abhiyan Report ATARI Zone-V, Kolkata	23/07/201 9	40	Awareness Programme to DAESI students
39	2019 -20	Jal Shakti Abhiyan Report ATARI Zone-V, Kolkata	26/07/201 9	40	Awareness to SHG of Fishery sector

# Swachh Bharat Abhiyan



Krishi Kalyan Abhiyan 2018



Mahila Kisan Divas 2018



Animal Health Camp



Webcasting of Inauguration of Pradhan Mantri Kisan Samman Nidhi on 24.2.2019. Total participants 261nos

### **18. Impact assessment made so far by any dependable agency:**

National Institute of Labour Economics Research and Development (NIELRD) (An Autonomous Institution under NITI Aayog, Government of India), A-7, Institutional Area, Narela, Delhi – 110040 has conducted a Research Study sponsored by Agricultural Extension Division of Indian Council of Agricultural Research (ICAR) on the “Evaluation of Krishi Vigyan Kendras (KVK) for Categorization into A, B, C & D Categories”. They have published their Report in December, 2017.

According to that Study, **the Over-all Ranking on Performance during the five years (2012-13 to 2016-17) of the Rathindra KVK was in Category “A”** in A, B, C and D Continuum Range of “0” to “1” where the ranges of ranks were ‘A’=0.76 to 1.0, ‘B’= 0.51 to 0.75, ‘C’= 0.26 to 0.50, and ‘D’= 0.0 to 0.25 for the Period of 2012-13 to 2016-17 (Source: - Page No. – 83 of “Evaluation of Krishi Vigyan Kendras (KVK) for Categorization into A, B, C & D Categories”, National Institute of Labour Economics Research and Development, NITI Aayog, Government of India, New Delhi, 2017). **The Rathindra KVK as judged as “A” Category KVK as per the Ranking on Performance of Core\* Activities during the five years (2012-13 to 2016-17)** (\*Summation of Mandated Activities + Effect/Impact/Outcome of Mandated Activities + Allied Activities) (Source: - Page No. – 95 of “Evaluation of Krishi Vigyan Kendras (KVK) for Categorization into A, B, C & D Categories”, National Institute of Labour Economics Research and Development, NITI Aayog, Government of India, New Delhi, 2017). The Rathindra KVK was awarded Category “C” as per the KVKs as per the Ranking on Infrastructure during the last five years (2012-13 to 2016-17) (Source: - Page No. 106 of “Evaluation of Krishi Vigyan Kendras (KVK) for Categorization into A, B, C & D Categories”, National Institute of Labour Economics Research and Development, NITI Aayog, Government of India, New Delhi, 2017 ).

**Internet Source:** - <https://icarrcer.in/wp-content/uploads/KVK-Final-2017-print.pdf>

## 19. Details of awards / prize received by the KVK, if any

The Rathindra KVK was awarded the “Best Prize” regarding the Stall Organization by the ICAR-NDRI, ERS, Kalyani, the organizer of One Day Dairy-cum-Krishi Mela at the Village:-Ghoshasldanga, Dist.:- Birbhum on 28.01.2017. The Stall of the Rathindra KVK was judged “Best” among the Stalls put up by different developmental organizations like KVK, Dept. of Animal Resource Development, Govt. of West Bengal; West Bengal University of Animal and Fishery Sciences, Kolkata; ICAR-NDRI, Kalyani; ICAR-IVRI, Kolkata; ICAR-NIRJAFT, Kolkata; different Self Help Groups from Anandadhara [groups constituted under Mahila Kisan Sashaktikaran Pariyojona (MKSP)], reputed Non-Governmental Voluntary Organizations like Loka Kalyan Parishad, Birbhum; Kabiguru Prakalpa, Birbhum etc. exhibiting modern products, technologies and practices regarding agriculture, dairy, fishery and allied sectors.

## 20. Total number of awards / recognitions received by KVK scientists during the last five years.

Year	2015-16	2016-17	2017-18	2018-19	2019-20
Number	-	01	03	01	-

Name of the Awardee	Name of the Awarding Agency with Contact details	Year of Award
Dr. Prabuddha Ray	Best Poster Paper Presentation Award by Bihar Agricultural University, Sabour, Bhagalpur, Bihar – 813210, India	2016
Dr. Subrata Mandal	Junior Scientist Award by Society of Krishi Vigyan, Association of Aquaculturists and ICAR-CIFA, Bhubaneswar, Odisha	2018
Sri Sourav Mondal	Junior Scientist Award by Society of Krishi Vigyan, Association of Aquaculturists and ICAR-CIFA, Bhubaneswar, Odisha	2018
Dr. Subrata Mandal	Best Poster Paper Presentation Award by Society of Krishi Vigyan, Association of Aquaculturists and ICAR-CIFA, Bhubaneswar, Odisha	2018
Dr. Madhuchhanda Khan	Best Poster Paper Presentation Award by Organizing Committee of the National Seminar organized by the Department of Agronomy, Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati	2019

**21. Impact of KVK in Terms of Agricultural and Animal Productivity, Socio-economic Conditions and Employment Generation during the period in the Adopted villages**

Sl. No	Item	Unit	Prior to KVK	Post KVK activities
1.	Change in cropping intensity	(%)	139	174
	Change in productivity of	(kg/ha)		
	1. Paddy			
	2. Wheat		3128.00	5192.00
	3. Kharif Black Gram		2958.00	4050.00
	4. Lentil		408.00	915.00
	5. Chick Pea		618.00	1350.00
	6. Summer Green Gram		948.00	1495.00
	7. Mustard		605.00	1210.00
	8. Sesame		996.00	1190.00
	9. Linseed		720.00	1010.00
	10. Field Pea		588.00	850.00
	11. Elephant Foot Yam		625.00	1180.00
	12. Tomato		19550.00	69240.00
	13. Cauliflower		25000.00	60000.00
	14. Cabbage		13700.00	36060.00
	15. Brinjal		7592.00	22830.00
	16. Capsicum		3050.00	6500.00
	12. Common Carp	(kg/ha/year)	21900	44500.00
	13. Giant Prawn in Composite Fish Culture		27,000.00	57,305.00
	14. Vetki in Composite Fish Culture		8,000.00	50,000.00
	13. Milch Cows	(lt/Cow/year)	7,500.00	35,000.00
	14. Poultry Birds		770.00	1916.00
		(No. of Eggs/Poultry Bird/Year)	65	168
	15. Poultry Bird	(Meat in kg/Poultry Bird/Year)	Male – 1.48 kg. Female – 00.92 kg.	Male – 2.95 kg. Female – 2.29 kg.
3.	Use of HYV (high-yielding varieties)			
	1. Cereals	(%)	81.00	92.00
	2. Pulses		58.00	80.00
	3. Oilseeds		65.00	88.00
	4. Vegetables		50.00	70.00
4.	Use of fertilizers (NPK) (nutrient)			
	1. Rice	(kg/ha)	100: 30: 20 120: 30: 20	80: 40: 40 100: 50: 50

	2. Wheat 3. Mustard 4. Sesame 5. Lentil 6. Chickpea 7. Black Gram 8. Tomato 9. Brinjal 10. Cauliflower etc PI Add more if required		80: 20: 10 100: 30: 20 20: 40: 10 20: 40: 10 20: 40: 10 50: 30: 20 50: 30: 20 50: 25: 25	60: 30: 30 80: 40: 40 20: 40: 20 20: 40: 20 20: 40: 20 85: 90: 45 85: 90: 45 75: 100: 75
5.	Use of FYM and other biofertilizers a. FYM b. Bio-Fertilizer	(kg/ha)  (gm/ha)	8000.00  200.00	6000.00  1500.00
6.	Tractor/machinery a. Tractor b. Power Tiller c. Combine Harvester- cum-Thresher d. Power Reaper e. Rotavator f. Zero Tillage Machine g. Thresher h. Drum Seeder i. Potato Planter j. ConoWeeder k. SRI Marker	(No.)	40 65 00 01 10 00 252 06 01 00 00	68 86 07 08 56 04 394 23 03 10 10

7.	Change in economic indicators (in adopted villages)			
	(a) Net return/ha/yr (by crop/enterprise)			
	1. Rice		9,285.00	21,680.00
	2. Wheat	(No)	20,770.00	41,300.00
	3. Mustard		17,760.00	31,267.00
	4. Sesame	(Rs.)	11,500.00	21,160.00
	5. Lentil		12,345.00	27,552.00
	6. Chickpea		11,885.00	23,992.00
	7. Brinjal		2,60,194.00	4,07,055.00
	8. Potato		1,26,500.00	2,18,500.00
	9. Elephant Foot Yam		1,61,000.00	8,57,800.00
	10. Broccoli		65,440.00	1,69,500.00
	11. Cabbage		79,905.00	2,65,720.00
12. Cauliflower		1,71,250.00	4,50,750.00	

## 22. Different Demonstration Units in the Rathindra Krishi Vigyan Kendra

### A) Medicinal Plant Garden





**B) Vermi Compost Unit**



**C) Azolla Unit**



#### D) Poultry and Duckery Unit



### E) Progeny Orchard of Mango



### F) Progeny Orchard of Guava



### G) Progeny Orchard of Musambi



### H) Progeny Orchard of Ber



I) Progeny Orchard of Water Apple



J) Progeny Orchard of Drumstick



### K) Mushroom Unit



### L) Soil and Water Testing Lab



### M) Plant Diagnostic Lab



### N) Nursery unit

### 15) Progeny Orchard of Banana



O) Progeny Orchard of Pomegranate





## **Intervention on Rural Reconstruction on the Ideal of Tagore**

Rabindranath Tagore started the Sriniketan experiment on Rural Reconstruction long back in 1922. It has been actively engaged in ameliorating the condition of the villagers since its inception. This rich traditional base of earlier extension works at Sriniketan has facilitated our formulation of need-based approaches to rural development and extension work which suits the present socio-economic framework. Tagore's thoughts on village problems, when put together, give us a complete picture of his ideal of rural life as also of the methods on which he would rely for its realization. But thoughts alone did not, however, satisfy him. He made a deliberate attempt to give practical effect to the ideas he preached on a more systematic basis at the Institute of Rural Reconstruction at Sriniketan, Visva-Bharati.

Gradually after Independence, rural India is witnessing exciting changes in terms of peoples' articulation of new demands, gender assertiveness, environment consciousness, grass root movements and decentralization. Simultaneously, dimensions of rural development and its problems are assuming greater complexities due to the emerging socio-political scenario in India. Keeping parity with the emerging situation, Visva-Bharati has reorganized its activities and adopted an integrated approach to work in three vital areas of development viz. Research, Extension and Training. The Institute of Rural Reconstruction has been actively engaged in improving the condition of the villagers since its inception. The idea is to encourage the villagers to become self-reliant through participatory approaches by formation of Self- Help Groups, Youth Organizations, Mohila Samities, Brati Balak organizations and many others.

Let us now discuss the various programmes organized by Visva-Bharati towards rural reconstruction of the villages around Sriniketan.

### **Extension Programmes conducted:**

<b>Year</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>
<b>*No. of Programmes</b>	<b>31</b>	<b>26</b>	<b>25</b>	<b>39</b>	<b>27</b>

**\* Extension Programmes conducted in financial year.**

**Department of Lifelong Learning & Extension (REC)  
Visva-Bharati, Sriniketan**

**Extension Programme: 2015-16**

<b>Date</b>	<b>Place</b>	<b>Participants</b>	<b>Name of the Programme</b>	<b>Collaborating Agencies and Remarks</b>
12.4.15	REC	10 Members of SHGs & Mahila Samities	Skill Development Training on Copper Wire Craft for 7 days	Local craftsman was resource person
12.4.15	REC	15 Brati Leaders	Skill Development Training on First Aid for 7 Days	In collaboration with St. John Ambulance((9434190902)
12.4.15	Kuthibari	10 Rural Librarians	Skill Development Training on Book Binding for 10 days	Local craftsman was resource person
12.4.15	Kuthibari	10 members from SHGs	Skill Development Training on Appliqué for 7 days	Local craftsman was resource person
23.6.15	Srichandrapur village	30 members of Mahila Samity	Awareness programme on Nutrition Gardening	In collaboration with KVK,VB. Sriniketan (9475505290)
26.6.15	Hansra High School, PS. Panrui	52 Students of Hansra High School	7 days training cum workshop on First Aid for the students of Hansra High School	In collaboration with St. John Ambulance & Birbhum Dist. Police
15.6.2020	AIR, Santiniketan	B.Nandy and Selected Rural Librarians	Discussion on Rural Library Services	Radio Programme in collaboration with AIR, Santiniketan

14-20.7.15	Halsidanga Palli Unnayan Samity	Villagers	200 saplings distributed among the villagers	In collaboration with Forest Deptt. Govt. Of W. Bengal
15.7.2015	Srichandrapur village	30 members of Mahila Samity	Awareness programme on nutritional requirement of pre-school children	In collaboration with KVK,VB
July	Santiniketan Radio Station	B. Majhi, S.Guha & Brati Leaders	Radio Prog. on Brati Balak Organisation	Radio Programme in collaboration with AIR, Santiniketan (983229998)
1.8.15	REC	Secretary of VDS	Secretary meeting	
09/08/2015	Sriniketan	70 participants including secretaries & rural librarians	Distribution of saplings (Amlaki, Guava , lemon, Sajne)	Distributed among librarians on the occasion of Halakarshana Utsav 2015
August	Mahula	16 village students	An essay competition on benefits of Yoga in daily life	In collaboration with rural library
08/09/2015	Kankutia Santidev Ghosh High School	400 villagers including participants & Students of schools	Celebration of International Literacy Day	Students of MA in .Rural Management also participated
21/09/15 to 26/09/15	REC	32 Brati Leaders & Asst. Leaders	Training on Brati Balak Organization	
14/09/ to 4/12/15	REC	11 village youths	Training on Mobile Phone Repairing	Local expert was resource person

28/09/15 to 12/10/2015	Kankutia Kojagori Sangha	36 Tribal villagers  (Female-27, Male-3, Janguru-3, Local RP-3)	5 days workshop on Enthno- Medicine Documentation jointly organised in collaboration with ASI, Kolkata	Prof. Swapan Kr. Dutta, Pro- Vice-Chancellor & Prof. Sabujkoli Sen, Director, SEI&RR, Sriniketan inaugurated the programme.  Redio Prog. Recorded & telecast.
28/11/2015	Fresco, Sriniketan	120 Tribal village Leaders  (Manjhi Haram & Paranik) from Bolpur- Sriniketan, Illambazar & Labhpur Block	Sensitization programme on social evils among the tribal community	SDO, SDPO, Bolpur (987470001) & Director, SEI&RR, Sriniketan inaugurated the programme
11/12/15 12/12/15 & 04/12/2015	16 villages under REC	320 Brati childrens	Celebration of Children's Day in the villages	In collaboration with our associated resource person
04/12/2015	AIR, Santiniketan	Officials of REC	Radio programme on Swachh Bharat Aviyan & Rural Extension Centre, Sriniketan	In collaboration with AIR, Santiniketan
08/12/15	Fresco, Sriniketan	211 mother & 241 child participate in the health check up camp	Health Check up camp	In collaboration with Directorate of Field Publicity, Information & Broadcasting, Govt. Of India
7/1/16 to 12/1/16	KVK	16 village women	3 days Training on Badni	In collaboration with KVK,VB
09/12/15	Fresco, Sriniketan	200 participants (SHG	Awareness Programme on Mother & Child	In collaboration with Directorate of Field Publicity,

		members, AWW, Supervisor, Health Workers, Brati Balak etc)	Health & Mission "Indradhanus" (Rally, Magic Show & Quiz competition )	Information & Broadcasting, Govt. Of India
24/12/16 to 27/12/16	Santiniketan		Exhibition on the Activities of REC	Programme organised on the occasion of Santiniketan Pous Mela
24/12/16 to 27/12/16	Santiniketan	15 Craftsmen	Craft Exhibition cum Sale counter	Programme organised on the occasion of Santiniketan Pous Mela
12/01/15	Ramnagar village	50 participants including Secretaries of VDS	Capacity Building training of the secretaries on the occasion of National Youth Day	Director, Deptt. Of Agriculture Marketing, Govt. Of W.B. was resource person
6/2/ to 8/16	Sriniketan	15 Craftsmen	Craft exhibition cum sale counter	Organised on the occasion of Sriniketan Annual Festival
18/2/ to 20/2/16	KVK	23 village women	3 days Training on Dhupkathi Making	In collaboration with KVK,VB
20/2/16 to 23/2/16	Ballavpur village	22 Mahila Samity member	4 days Training on Fuchka making	In collaboration with KVK,VB
24/2/16	Gitanjali, Bolpur	30 farmers	Sufal Bangla inauguration at Bolpur. 30 Farmers from REC villages received van Rickshaw Sri Arup Biswas from Minister of Agri. Marketing	In collaboration with Deptt. Agri. Marketing, Govt. Of W. Bengal (943395012)

25/2/16 to 27/2/16	KVK	21 women from 4 villages	3 days training on Food Preservation	In collaboration with KVK,VB
18/3/16	REC Seminar Hall	75 Librarians and Asst. Librarians	Seminar on Organising Rural Library in Present Perspectives: Problem & Future Direction	
<b>Total Extension Programmes 31</b>				

**Department of Lifelong Learning & Extension (REC)  
Visva-Bharati, Sriniketan  
Extension Programme -2016-17**

<b>Date</b>	<b>Place</b>	<b>Participant</b>	<b>Name of the Programme</b>	<b>Collaborating Agencies &amp; Remarks</b>
9th-11th May 2016 10am-5pm	Narendrapur	27 farmers + 5 staff	Exposure visit to Narendrapur Ramakrisna Mission & Training on Vermin Composting	In collaboration with Bengal Chamber of Commerce & Industry & Narendrapur Ramakrishana Mission
6 <sup>th</sup> June 2016 10am-5pm	REC Seminar Hall	65 farmers (55 Male farmers and 10 Female from SHGs including Secretaries of VDS)	On the occasion of 123 <sup>rd</sup> Birth Anniversary of L.K. Elmhirst the department organised a training programme on "Increasing Farm Productivity and Rural Development"	Stayabrata Mukherjee – BCC& I- Chief Guest, K. Marjit, GM, BIRD, Prof. S.K. Sen- Director Prof. M M Mukherjee- Principal, PSV Prof. S. Chowdhuru, Principal, PSB was present in the inauguration.

			in collaboration with BIRD, Bolpur and Pictorial Exhibition on Elmhirst.	Published in <i>Andabazar</i> on 7.6.16.  Prof. Gunindranath Chattopadhyaya, PSB and Smt. Nandita Bhattacharya, ADA (SM), Bolpur Sub-Div. and Sri S.N. Ghosh Dy. G.M. BIRD were resource persons in the training programme.
10 <sup>th</sup> June 2016 3pm-5pm	AIR, Santiniketan	10 (Staff, Rural Librarian, Students)	Recording a programme on Rural Library Services	Telecast on 12.6.16 (Sunday) at 8 pm (FM)
27 <sup>th</sup> June 2016	REC Seminar Hall	21 VDS Secretary/ representatives	Meeting was held with the Selected Secretary of VDS regarding sports promotion programme in coordination with the Department of Physical Education, Visva-Bharati	HOD, Dept. of Physical Education and HOD, REC was present.
4 <sup>th</sup> July 2016 at 4 pm-6.30pm	Kankutia	Selected 90 farmers of 8 villages	Training programme on "Organic Farming and Increasing Productivity." Distributed vermin among 2 farmers for	Dr. Nishit Mondal, ADA, Birbhum was speaker. Power point presentation was used for better understanding of farmers.

			vermin composting	
11 <sup>th</sup> – 15 <sup>th</sup> July 2016 8am-12.30 pm	REC Seminar Hall	34 Brati Leaders	Training programme on Brati Balak Organisation	Faculties of Dept. Of Physical Education, VB providing training also
19 <sup>th</sup> July 2016	Mahula	33 Farmers	Awareness programme on Cultivation of Aman Rice	In collaboration with the Department of Plant Protection, PSB.
19 <sup>th</sup> July 2016	Mahula	16 Students and other villagers	Prize distribution Essay competition on Joga in Daily life.	HOD, REC was present
22 <sup>nd</sup> July 2016	Kamalakantapur	64 SHG members/ villagers of ST Community	Awareness programme on Nutrition Gardening	In collaboration with KVK, V.B. Ruma Addya SMS Home Science, was resource person
9 <sup>th</sup> August 2016	Sriniketan		Sapling distributed among 12 Mahila Samities on the occasion of Halakarshana. (Mango, Jamun, lemon, and guava distributed among Mahila Samities.)	
13 <sup>th</sup> August 2016	Mahidapur High Madrassa	200 participants (Girl students, SHG member, Mahila Samity	An awareness generation programme	Director, Sriniketan and HOD was present in the programme.



		members and teachers participated in the programme	against Child Marriage	
19 <sup>th</sup> August 2016	Binuria Sumitra Balika Vidyalaya	120 Students (Class IX & X) SC-09, ST-34, OBC-36, Gen-9, No. of Villages- 20	An awareness programme on Adolescent Health (Organised by BSW students with the help of Binuria Mahila Samity). Discussed different issues of adolescent health among Students.	Health personnel from BPHC, Bolpur participated
29 <sup>th</sup> August 2016	Dept. Of Physical Education	200 Brati Children with Brati Leaders 4 Football Team from 4 Volleyball Team from Village	Physical Education Department. Organised National Sports Day in association with REC	Brati Dal exhibited different drill before the audience and also learned minor game from students of the Physical Education Deptt. VB
8 <sup>th</sup> September 2016	Surul, Supur, Gopalnagar, Kamalakantapur, Ballavpur	All librarians, Representative of VDS, SHGs, Brati, Villagers, Students etc.	Department celebrated 'International Literacy Day' on 8 <sup>th</sup> September 2016 at 2 P.M. to 5 Pm at different five villages under five Clusters. Rally and Cultural Programme	Successful 54 Madhyamik (60% Overall Grade A) and 42 Higher Secondary (70% Overall Grade A) students felicitated by giving them one Dictionary (provided by Santiniketan Trust) books namely 'Chhelbela' (for Mahyamik) & 'Jibannshriti' (for HS)

			was organized. More than 100 participants participated in each cluster programme.	written by Gurudev Rabindranath Tagore.
10 <sup>th</sup> September 2016	Monoharpur	50 Pregnant lactating Programme	Awareness programme on Mother and Child Care and Nutrition	In collaboration KBK, V.B. Ruma Addya SMS Home Science, was resource person
23 <sup>th</sup> Sept. 2016	REC Seminar Hall	All 34 Brati Leaders	Seminar cum awareness programme on Adolescent Health	Counsellor of Adolescent Friendly Health Clinic was resource person
3 <sup>rd</sup> Oct. 2016	Mahidapur Rural Library	50 famers from Mahidapur Village	Training programme on Farm, Farmers & Rural Development.	Dr. Nisit Mondal, ADA, Birbhum  Dr. Nandita Bhattacharya, ADA, Bolpur was resource person
10 <sup>th</sup> November 2016	REC seminar hall	Secretaries of VDS	Discussion on rural extension programmes at Secretary meeting	
12 <sup>th</sup> November 2016 (9am to 4 pm)	1 <sup>st</sup> Floor at Sriniketan Hospital	200 Manji Hram participated in the programme	Awareness programme on social evils among tribal community.	A committee was formed to address with problem.
19 <sup>th</sup> November 2016	Mirzapur Ramnagar Lohagarh Laldaha	Near about 200 participants participated in each cluster level programme including	Celebration of Children's Day at five cluster	A drawing competition was organised

	Manharpur (on 5.12.16)	children of the locality		
24 <sup>th</sup> November 2016	Rajatpur Indranarayan Vidyapith (H.S)	250 students including teachers participated in the programme	Awareness against Child Marriage	SDPO, Bolpur and Head Master was present
26 <sup>th</sup> November 2016	REC Seminar Hall	50 Craftsman participated	Meeting with Craftsman	Selected craftsman will exhibit their products at Poushmela
2 <sup>nd</sup> December 2016	Monoharpur	50 Girls and mothers	Awareness programme on adolescent health	S. K. Saha Counsellor, AFHC, Sian, Bolpur Sub Division Hospital, Birbhum
20 <sup>th</sup> December 2016	25 Rural Library	100 participants in each village	Celebration of Library Day	Drawing, recitation completion was organised for the readers of the library
2 <sup>nd</sup> January.2017	REC		Book selection for Rural Libraries	
7 <sup>th</sup> & 8 <sup>th</sup> January 2017	REC Seminar Hall	60 Students of MA in Rural Management & Diploma in Rural Tourism	Workshop on "Santiniketan: Visit & Know the Tagore's Place".	Prof. Tapati Mukhopadhaya, Prof.Subujkoli Sen, Prof. Sisir Sahana was the resource person.
12 <sup>th</sup> January 2017	Sriniketan Ground	400 children participated	Central Rally	
6 <sup>th</sup> -8 <sup>th</sup> February 2017	Sriniketan		Sriniketan Annual Festival (Broti o Yuva Utsav)	

23 <sup>rd</sup> -28 <sup>th</sup> February 2017	Bllabpur	24 SHG members	Training on Tomato Sauce and Papad Making	In collaboration with KVK, VB
25 <sup>th</sup> -27 <sup>th</sup> February 2017	Purulia	45 Secretary of VDS & Mahila Samity	Visit to Kalyan Purulia and Ajodhya Hill Cluster	
7 <sup>th</sup> March 2017	REC Seminar Hall	30 Mohila Samiti Secretary and Students under different department under PSV participated	“People Education Programme” Lecture session on Khadi, quiz and extempore lecture competition among participants conducted	Kabiguru Mohila Khadi O Gram Silpa Unnayan Trust in collaboration with Department
19 <sup>th</sup> March 2017	REC Seminar Hall	Secretary, Librarians, Asst. Librarians participated in the Programme	Workshop on Rural Libraries and Voluntary Efforts organised by the Department	Sri Kishore Krishna Banerjee, Former Director, RRRLF was Chief Guest
31.3.17	Nurpur	Members of VDS and Mohila samities	Visit and discussion by Director, Institute of Rural Development Hyderabad	

**Department of Lifelong Learning & Extension (REC)**  
**Visva-Bharati, Sriniketan**  
**Extension Programme: 2017-18**

<b>Date &amp; Time</b>	<b>Place</b>	<b>Participant</b>	<b>Name of the Programme</b>	<b>Collaborating Agencies &amp; Remarks</b>
18.5.2017 at 4 pm	Sriniketan & Lohagar	All the members of VDS and Mohila Samities	Visit and discussion by faculties of Begam Rokeya University, Rangpur, Bangladesh	Exchange programme. They also Visited Lohagar village.
20.5.2017 at 4 pm	Sriniketan Nurpur	All the members of VDS and Mohila Samities	Visit and discussion by Smt. Dipika Pokhrana Director, (Library) Ministry of Culture, Govt. Of India	Visited Nurpur Rural Library
30.6.17 9.30 am to 4.30 pm	REC Seminar Hall	46 Secretaries of VDS	Celebration of 125 <sup>th</sup> Birth Anniversary of L.K. Elmhirst and Secretary meeting	Prof. Kumkum Bhattacharya delivered a lecture on Elmhirst and Sriniketan. Discussion on future extension programmes
25.7.17	REC Seminar Hall	30 AWWs and Asha Workers	Awareness programme for AWWs and Asha Workers on use of technology in ICDS Centre	BPHN Bolpur Primary Health Centre was present
5.8.2017	Kartickdanga	100 Villagers	A rally was organised on Swachha Bharat Abhijan	Representatives of youth society, SHGs participated

5.8.2017	Kartickdanga	100 farmers	Awareness programme on Horticulture	Dr. Goutam Mondal & Dr. Joydeep Mondal from Deptt. of Horticulture was speakers.
9.8.2017	Sriniketan	Villagers	Sapling of mango distributed among the 30 trainees of Home Nursing on the occasion of Halakarshan Utsav.	Representatives of VDS participated in the programme
12.8.2017	Nurpur	200 Villagers	A rally was organised on Swachha Bharat Abhijan	Representatives of youth society, Mahila Samity, Brati Dal, SHGs and students of MRM participated
18-19 <sup>th</sup> August 2017	LIPIKA		International Seminar on Vision of Rabindranath Tagore on Cooperative Society and Community Development (Along with a Craft fair and Exhibition). 134 papers presented in different technical session.	Dr, Tanvir Mokammel was Guest of Honour, Prof. Ataur Rahaman was Special Guest, Prof. Pranab Chatterjee, eminent scholar and Retired Prof BCKV was key note Speaker and Prof. Swapan Kr. Datta VC, VB presided over inaugural programme. 10 craftsmen participated from villages for handicrafts exhibition cum sale at LIPIKA
21 <sup>st</sup> August to 9 <sup>th</sup> Sept. 2017	REC Seminar Hall	30 selected women from	Training on Home Nursing	Programme organised in collaboration with St. John Ambulance,

10am -2pm		command area villages		Suri, Birbhum, CMOH was Chief Guest.
26.8 17	Supur	200	A rally was organised on Swachha Bharat Abhijan and discussion on Swachha Bharat Abhijan	Representatives of youth society, Mahila Samity, Brati Dal ,SHGs and students of MRM participated
8.9. 17	Kartickdanga Srichandrapur Monoharpur Islampur Sehalia	200x5 Clusters=1000	Celebration of International Literacy day at five cluster village. Total 97 Madhyamik and HS Students (A grade) felicitated by a dictionary provided by Santiniketan Trust. Cultural programme and rally was organised. At Kartickdanga village a plantation programme was also organised.	Dr. M.M. Mitra in Charge VC  Prof. Sabujkoli Sen was guest at Kartckdanga village.  Prof. Aruna Mukherjee was chief guest at Sehalai.  Mr. Anil Konar was Chief Guest of Monoharpur. Soumen Sengupta was Chief guest of Srichandrapur village. Prof. Sabujkoli Sen was chief guest of Islampur village.
23.9.2017	Binuria Sumitra Balika Vidyalaya	400 students, villagers & people attached with marriage ceremony	Awareness programme against child marriage	Prof. Sabujkoli Sen and IC of Bolpur, Santiniketan was present
28.9.1017	REC Seminar Hall		Secretary Meeting	40 youth and Mohila Salinities Secretary participated
Oct	Allahabad Regional Training College		Beatification management Training for selected women	Training Programme conducted in collaboration with

			from command villages	Allahabad Regional Training College
14.11.2017	Moldanga Raipur Mohula Kamarpara	250 participants in each programme/village	Celebration of Children's Day	Drawing competition and cultural programme organised
18.11.2017	Taltore	250 participants	Celebration of Children's Day	Drawing competition and cultural programme organised
25.11.2017	Anandamayee Samity, Surul	150 (Secretary of VDS/Mohila Samities, Librarian, Asst. Librarian, 12 AWWs)	Youth Development Workshop (Discussion on decentralize library meeting at Five Cluster and strengthening Cluster Level Extension Programmes)	Amlan Kusum Ghosh, ASP Birbhum and Prof. Sabujkoli Sen, Director, SEI & RR, Sriniketan was present)
3.12.2017		14 farmers	Onion seed distribution to farmers	In collaboration with SUFAL BANGLA
8.12.2017	Paruldanga Khoskadambapur Pry. School	150 (All secretaries, Broti, Librarans , Asst. Librarians, staff of selected staff members was present)	Nabbana Utsav	
23 <sup>nd</sup> Dec to 28 Dec. 2017	Pous Mela Ground Santiniketan		Exhibition on the Activities of Department and Crafts stall Exhibition cum Sale Counter	On the occasion of Poush Mela



31 <sup>st</sup> Dec. To 2 <sup>nd</sup> January 2018	Gosaba Sundarban	38 VDS Secretary and Staff members (Total 52 participants)	Visit to Rupayan, Gosaba, Sundarban South 24 Pgs	
12 <sup>th</sup> January 2018	Sriniketan	Bratidal Children and students of the Department	Celebration of National Youth Day and Central Rally of Brati Dal	
January	Allahabad Regional Training College		Soft Toys Making Training for selected women from command villages	Training Programme conducted in collaboration with Allahabad Bank Regional Training College
30.1.2018	Srichandrapur	50 SHG members and members of Mohila Samities	Awareness programme on Nutrition and Health of Pregnant and Lactating mothers	Supervisor from Bolpur ICDS Project was resource person
6 <sup>th</sup> Feb – 8 <sup>th</sup> Feb. 2018	Sriniketan		<ol style="list-style-type: none"> <li>1) Broti-o Yuba Samabesh</li> <li>2) Craft Exhibition cum sale</li> <li>3) Lokosanskritir Asor</li> <li>4) Seminar on PMEGP</li> </ol>	<p>19 Broti Dal includes 450 children and other representatives total 650 participants participated in the programme.</p> <p>Crompton Dutta was Chief Guest Broti O Yuva Samabesh. Prof. Sabujkoli Sen Vice Chancellor presided over the programme. Prizes given for different sports and other competition. Raibese from performed by <i>Swadhin Bittar Raibese, Katurhat,</i></p>

				<p>Boroa Police Station, Murshidabad.</p> <p>16 villages participated in the Folk cultural programme on 8.2.18 at evening at Fresco.</p> <p>40 Secretaries from VDS and Mohila Samity Participated in the Seminar on 8.2.108 at Seminar Hall. Amit Kar Roy, Sr. Faculty from Allahabad Bank Regional Training College, Bolpur was Chief guest</p>
18.2.18	Supur Pry. School	10 SHGS (total 80 members)	SHG Seminar for Sharing of Experiences, Problems and Suggestion.	Representatives from Supur Debdut Club also participated.
27.03.2018	Fresco, Sriniketan	Total 1591 participants from SHGs members and girls students (IX to XII) of selected schools in our command area villages, members of <i>Mohila Samities</i> , trainees of home nursing, female rural librarians, female brati leaders, media persons	An awareness building programme on "Cleanliness, Health & Hygiene". This programme is part of strengthening " <i>Swachha Bharat Avijan</i> " and " <i>Beti Bachao and Beti Padhao</i> " programme initiated by Govt. of India.	In collaboration with Raja Rammohan Roy Library Foundation (Ministry of Culture, Govt. of India. In the inaugural programme Prof. Sabujkoli Sen, Vice-Chancellor, Swami Divayanandaji Maharaj, Secretary, Ramakrishna Mission Saradapith, Belur, Dr. Arun kumar Chakraborty, Director General, RRRLF, Kolkata, Prof. Shankar Mazumdar,

		<p>participated in this programme.</p>	<p>Principal, PSV, V.B., Smt. Shampa Hazra, SDO Bolpur, Sri Amlan Kusum Ghosh, ASP Birbhum, Sri Soumen Sarkar, Dy. Director, RRRLF, Kolkata was present. Dr. Bodhirupa Sinha, Principal, Patha-Bhavana, Visva-Bharati delivered a lecture on "Swachhata" and "Inculcating Reading habits among the students" In the second and interactive session Dr. Puspita Debbarma, Medical Officer, PM Hospital, V.B. was the speaker on the subject "Health, Hygiene &amp; Cleanliness" At the end of the programme certificates distributed by the dignitaries to 30 Home Nursing trainees under the Department of Lifelong Learning and Extension (REC). Banners, Chart, posters on "<i>Swachha Bharat Avijan</i>" and "<i>Beti Bachao and Beti Padhao</i>" exhibited in different part of Fresco, Sriniketan. Craft Exhibition of SHGs</p>
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				<p>was also organized besides the Pandel.</p> <p>All the participants are benefitted by this educational awareness building programme on "Cleanliness, Health &amp; Hygiene" of Raja Ramohan roy Library Foundation, Kolkata.</p> <p>(9433911226)</p>
<b>Total Extension Programme-25</b>				

**Department of Lifelong Learning & Extension (REC)  
Visva-Bharati, Sriniketan  
Extension Programme- 2018-19**

<b>Date</b>	<b>Place</b>	<b>Participant</b>	<b>Name of the Programme of Programme</b>	<b>Collaborating agencies &amp; Remarks</b>
05.6.2018	Nurpur Village	250	Celebration of World Environment Day (Plastic free village, rally for awareness, distribution of plants among all the Brati children in villages)	Report published in Anadabazar Patrika on 07.6.2018
21.6.2018	Nurpur Village	100	Celebration of International Yoga Day (Women exhibit Yoga as they are practising regularly, children show Karate and drill exercise by Brati Dal, Football team shows free hand exercise. Discussion was held on importance of Yoga)	Published in Anandabazar Patrika on 22.6.2018 at Birbhum Page.  A vehicle was hired

22.6.20018	Srichandrapur Chandrai & Monoharpur Village	Librarians and readers 50	Village Level Library Meeting	
05.8.2018	Surul	50	Sahitya Sabha- first time Sahitya Sabha organized by the Department. Readers of rural libraries under the Elmhirst Cluster participated.	Published on Anadabazar next day Birbhum page
09.8.2018	Sriniketan		Halakarshana: Sapling (mango & amla) distributed among 30 rural tribal women of Kakutia village. 30 Lemon and Guava sapling distributed among secretaries of VDS.	Published on Anadabazar
18.8.2018	Sriniketan	30	Students from Srilanka visited the Department and discussion about extension programmes	
24.8.2018	Sriniketan	Total 140 participants (51 VVDS Secretary, 65 Librarian & Asst. Librarian, staff members, Resource persons)	Workshop on Youth organization and Rural Library services organised by the department for better coordination and functioning of rural library services. Other extension programme also discussed with the participants.	Prof. Sabujkoli Sen V.C. presided over the function. Nimai Chand Saha Deputy Librarian and Daibakinandan Das Asst. Registrar (A/C) was the resource person. Published Anadabazar next day.
26.8.2018	Kamalakantapur	100	Sahitya Sabha	
26.8.2018	Nurpur	100	Raksha Bandhan Utsav Celebrated in Nurpur village	
29.8.2018	Deptt. of Physical Education, Vinaya Bhabana	8 Broti Dal (160 Children & 16 Broti Leaders)	Observation of National Sports Day: Brotidal exhibited different drill and physical activities in the morning.	in collaboration with Deptt. of Physical Education, Visva-Bharati.

		4 football team and 4 Volleyball team participated from 8 villages.	Football and volleyball team from villages participated in the competition.	(Report Published in Anadabazar next day.)
9.9.2018	Director Office, Sriniketan		Donation of Rs. 40,000/ by representatives (Cluster Convenors) of 50 villages for flood relief fund of Kerala	Handed over to Accounts Officer, VB
14.9.2018	Dangapara	100	Sahitya Sabha	
15.9.2018	Roypur	100	Sahitya Sabha	
22.9.2018	Gopalnagar	100	Sahitya Sabha	
23.9.2018	Adityapur, Binuria, Halsidanga, Srichandrapur	250	Celebration of International Literacy Day. Felicitation of successful Madhyamik and HS students and organised cultural programmes at four villages of four clusters.	
26.9.2018	Nurpur	250	IKEA-UNICEF Programme: For special Olympic Representative visited Nurpur village. Interaction with villagers, Yoga, Broti, cultural programme organised by Nurpur VDS. 30 disable children participated in different games organised by the students of Physical education	In collaboration with the Deptt. of Physical Education, VB
29.9.2018	Ramnagar	300	Awareness campaign "Social Evils and its Prevention and Cleanliness, Health and Hygiene among Tribal	Prof. Sabujkoli Sen, VC, VB and Soumyajit Barua SDPO Bolpur, and

			Communities" organised by the Department. 300 tribal people including youth leaders, representative of SHGs participated in the meeting. 16 footballs were given to 8 football team of local tribal villages under Chowpahari Jungle area for sports promotion programme.	Dr. Surojit Saha, MBBS was present.
07.10.2018	Nurpur	250	Celebration of International Literacy Day. Felicitation of successful Students (MP & HS)	
10.11.18			Prof. Bidyut Chakraborty, Vice-Chancellor visited Kuthibari	
14.11.2018	Sehalai	250	Celebration of National Children's Day  Drawing Competition, Competition on letter writing and cultural programme organised by the Department.	
18.11.2018	Mahidapur, Supur	250	Observation of National Children's Day  Drawing Competition, Competition on letter writing and cultural programme organised by the Department.	
22.11.2018	Ramnagar	250	Celebration of National Children's Day  Drawing Competition, Competition on letter writing and cultural programme organised by the Department.	

12.12.2018	Kakutia	300 SHG members	Awareness programme on Prevention of Social Evils and Child Marriage. A rally and discussion programme organised. Awareness through Kabigan	Published in Anada Bazar-Bibhum Page on 13.12.18
20.12.2018	Dwaranda	300 SHG and Members of Youth Club	Awareness programme on Prevention of Social Evils and Child Marriage. A rally and discussion programme organised. Awareness through Kabigan	
21.12.2018	Laldaha	250 readers, librarians, villagers	Sahitya Sabha	
23.12.2019 to 28.12.2019	Pous Mela		1) Exhibition on activities of REC 2) Exhibition and Sale Counter of Handicrafts	
27.12.2019	Nurpur and Kartkdanga	150 members of SHGs, Mohila Samity and members of Samity	Prof. Bidyut Chakraborty respected Vice-Chancellor visited Nurpur Samity and library. Interacted with villagers and artisan of the village. He also visited Kartickdanga village Firm House and interacted with the farmers of the village.	
30.12.2018	Supur Ajoy River side	150 villagers	Swachha Abhiyan- "Save and Clean Ajoy River"	
05.01.2019	REC Seminar Hall	70 librarians	Meeting with Rural Librarians and Asst Librarians. 49 English gifted books distributed to Nurpur Rural Library. Books are gifted by the family of Respected Vice-Chancellor for promotion of knowledge of outer world among village children.	



04.01.2019	Sriniketan	70 Librarians	Central Seminar of Librarians 49 English gifted books distributed to Nurpur Rural Libraries. Books are gifted by family of respected Vice-Chancellor	
06.01.2019	REC Seminar Hall	28 Broti Leaders	Meeting with Broti Leaders	
12.01.2019	Sriniketan	500 (450 Broti Children 38 Broti Leaders)	Celebration of National Youth Day and Central Rally of Broti Dal	Adhyapak Rudrapsad Sinha, Siksha Satra delivered a lecture on Swamiji
13.01.2019	Binuria	50 participants (SHGs, Mohila Samities)	Mrs. Madhuri Bose (Grand Daughter of Netaji) and her husband Mr. Max Well from London UK , visited Benuria village	
16.11.2019	Sukhbaar	150 Secretary, Librarians, Broti Leaders	Discussion on Village Development and Role of Functionaries of Village Development Societies	Upacharya was present in the programme
17-18th January 2019	Sriniketan	5 students from Roopkala Kendro, Kolkata	Educational tour of Development Communication students of Roopkala Kendro, Deptt. of Information and Cultural Affairs, Govt. of West Bengal	
20 <sup>th</sup> -21 <sup>st</sup> January 2019	Deoghar, Jharkhand	Rural Librarians, Broti Leaders and Convenors and Staff members REC.  Total Participants- 100	Visit to Fontal Development Organization, Deoghar, Jharkhand. The functionaries discussed different programmes initiated by the organization particularly their programmes related to food and nutrition security for pregnant, lactating mothers and children, agricultural extension programmes and youth leadership	

			programme to fight against gender discrimination.	
6 <sup>th</sup> February-8 <sup>th</sup> February 2019	Sriniketan		Annual festival of Sriniketan 2019: Dr. R. Subramanyan, Secretary of Higher Education, Govt. of India was the Chief Guest of Annual Festival. Chief guest and Vice-chancellor visited Exhibition cum Sale Counter of Artisan at Magh Mela. Vice Chancellor attended Broto Yuva Samabesh on 6 <sup>th</sup> February at Sriniketan Ground. 19 Broto Dal exhibited their performances. A seminar on Kitchen Garden organised on this occasion for members of self-Help Groups. 50 SHG members participated in this Seminar. Asst. Director, (Agri) Bolpur was resource person of the Seminar.	
February 2019	Seminar Hall	30 students	Students and faculty members of Kamala Nehru Women's College, Odisha visited REC	
16.3.2019	Kartickdanga		Kartickdanga village visited and discussion by D. Venkatesan, Deputy Director General, Ministry of Tourism, Govt. of India	
<b>Total Extension Programmes - 39</b>				

**Department of Lifelong Learning & Extension (REC)  
Visva-Bharati, Sriniketan**

**Extension Programme -2019-20**

<b>Date</b>	<b>Place</b>	<b>Participants</b>	<b>Name of the Programme</b>	<b>Collaborating Agencies /Remarks</b>
06.6.2019	REC Seminar hall	36 Secretaries and Staff members of REC	Celebration of 127 Birth Day of Leonard Knight Elmhirst	Elmhirst Lecture given by Prof. Amit Kr. Hazra HOD, REC
17. 6.2019	Srichandrapur & Sukbajar	Librarians of the Clusters	Library Seminar	
19. 6.2019	Yoga Gram, Dept. Of Physical education	102 farmers of command villages	Yogic Food and Organic Farming Awareness Camp with Dept. Of Yogic Art and Science, Visva-Bharati	Published in Andabazaar Patrika
29.6.2019	Kartickdanga	Library readers of 8 villages under Rathindra Cluster	Sahitya Sabha and visited agriculture project area of Kartickdanga village for interaction with the farmers.	
20.7.2019	Raipur village	Villagers and Members of Raipur Yuva Sangha	Tree Plantation at Raipur Village	Initiative taken by Raipur Yuva Sangha and supported by REC
9.8.2019	Sriniketan	Secerataries of VDS and Broti Leadres	Halakarshana: Saplins (Mango, Kaju, guava given 25 Broti Dal  Each Brotidal got 5 sapling and Total 125 saplings given to Broti Leaders.	Bibek Debroy was chief Guest  Sunil Ambekar and Goutam Deb was special Guest in Halkrashana Utsav.  Special lecture session on "Rabindranath And Economics" was organised at PSV on the occasion of Rabindra Saptha.

10.8.2019	Sehalai	200 villagers and readers of Library	Inauguration of renovate rural library	Sri Dinabandhu Mondal, Advocate from Kolkata donated to renovate Rural library. He also donated 3 Laptops to rural Library for the readers of the Library.
18.8.2019	REC Seminar Hall	40 Secretaries of VDS participated in Rural Library	Secretary meeting	
30.8.2019	REC	35 students of 12 high school near Sriniketan along with teachers and guardians	Essay competition on "Swachhata" among Students (Class IX & X). 35 Students from 12 high schools near Sriniketan participated in this competition at REC.	
30.8.2019	Sundipur Village	50 representatives of Sundipur, Amgore and Bishnukhand a village	Meeting with representatives of newly adopted villages under Kalimohan Cluster. Discussed regarding extension activities of the Department.	Prof. Amit Hazra HoD and other technical staff members was present.
08.9.2019	Goalpara village	100 villagers including representatives of Goalpara Pally Unyan Samiti and 5 SHGs	Community Mobilization Programme on bio-energy from water hyacinth. Sharing of experience of joint collaborative project by IIT Madras, IIT Bombay University of Leeds, University of Exeter and Visva-Bharati.	

18.9. 19	Silpo Utsav at Sriniketan	Faculties, Students and Staff	<p>1. Smt. Mallika Das of Raipur Village felicitated for jute and paper art crafts on the occasion of Silpoutsav at Sriniketan. Her paper and jute work highly praised by all in exhibition at Silpo Sadana.</p> <p>2. Two girl students Football team from Dwaranda High School and Rajatpur Indranarayan Vidyapith participated in football match at 3pm on the day. Dwaranda won by one goal. This is historical event as first-time girl students participated in the football match in Sriniketan Play Ground. They are felicitated by football and jersey by Sports Board, visva-Bharati at the end.</p>	<p>Prof. Bidyut Chakraborty, Vice-Chancellor, VB presided over the meeting. Prof. Nadadulal Mukhopadhyaya was chief guest.</p> <p>Published in AndaBazar patrika. (Brbhum Page)</p>
22.9.2019	Mahula	100 participants (school children, youth and villagers)	<p>Initiatives taken by Mahula village to make the village plastic free zone. A rally was organised and collected waste plastic for disposal. The programme organised as an initiative under Swachha Bharat Avijan Mission and Unnat Bharat Avijan.</p>	

30.9.2019	PSB Community Hall, Sriniketan	275 participants  Madhyami, Hs. Students, Broti leaders, Librarians, Secretaries, Students participated in Essay Competition, guardians participated in the Programme	Swachhata Hi Seva Campaign: A felicitation programme Plastic Free waste Zone under swachha Bharat Abhiyan Mission and Unnat Bharat Abhiyan  1) Felicitation given to Madhyamik (25) and H.S. (44) successful students  2) Felicitation given to of Essay Competition (1st, 2 <sup>nd</sup> , 3 <sup>rd</sup> ) and all the participants (35)  3) Felicitation given to Kartickdanga, Nurpur & Mohula VDS for their initiatives to make Plastic Free Village.  4. A short film on Plastic Pollution exhibited	Prof. Asha Mukherjee, Registrar (Act.) was present.
10.11.2019 to 12.11.2019	Karma Tirtha, Ballavpur	8 women Artisans from SHGs	8 women Artisans from SHGs participated in Sabala Mela at Karma Thirtha	Sabala Mela organised by Govt. Of west Bengal for women artisan
14.11.2019	Monoharpur , Chandanpur , Bahadurpur and Sukhbazar	1000 people including Children's from 5 cluster villages	Children's Day celebrated (in 5 Cluster level villages) by the Department. On this occasion drawing competition (Group A; 2 <sup>nd</sup> to 4 <sup>th</sup> standard and Group B- 5 <sup>th</sup> to 8 <sup>th</sup> Standard children) and children performed in the cultural programmes	

			organised at the respective clusters.	
24.11.2019	Kakutia Ambagan	200 Participants (Society representatives, Broti and Librarians)	Nabanna Utsav: 50 VDS provided different items from their villages. A cultural programme was also organised.	
30.12.2019	Jadavpur Halshidanga	Librarains	Cluster level monthly meeting held at Jadavpur (10 am to 12.30pm) and Halsidanga (3pm to 5pm).  Librarians of respective clusters participated in the meeting	
1.12.2019	Adityapur	Library readers, villagers and librarians participated in Sahitya Sabha	Sahitya Sabha held at Jadavpur village	
8.12.2019	REC Seminar Hall	75 rural artisans along with staff and resource person and other. Total 100 participants participated in the workshop.	Celebration of all India handicrafts week ( 8 <sup>th</sup> to 14 <sup>th</sup> Dec.2019)  One day workshop for rural artisan organised by the Department on the occasion of handicrafts week. Sri Monikanchan Gangully from DIC, Suri gave his lecture on different govt programmes and Benefits for artisan. Sri Souymajit Roy Entrepreneurs speaks	

			<p>on scope of handicrafts marketing. Prof. S.K. Paul highlighted on promotion of handicrafts by REC and Sri Parbir Chowdhury from Silpa Sadana gave his lecture on up gradation of knowledge and technology on handicrafts.</p>	
20.12.2019	<p>Kamarpara, Sattore Gopalnagar Nurpur Supur</p>		<p>Library Day Celebration</p>	
6 <sup>th</sup> Feb to 9 <sup>th</sup> February 2020			<p>98<sup>th</sup> Annual Festival of Sriniketan:  Broti-O-Yuva Utsav- 25 Broti Dal (550 Broti Children and 50 Broti leaders) Participated the Programme on 6<sup>th</sup> February. Lok Sankriter Asor by local folk artist organised by the department.  Craft Exhibition cum Sale counter of local Artisan was organised by the department.</p>	
11.2.2020			<p>Visit of students from Patha Bhavana, Visva-Bharati. They also attend a seminar on Economic thoughts of Tagore and Rural</p>	



			Reconstruction by Prof. Amit Hazra, HoD.	
12 <sup>th</sup> February to 19 <sup>th</sup> February 2020			Kirtan Utsav: organised in association with Anadamayee Samity, Surul. Total 09 artists presented their kirtan song. Near about 1000 participants participated in each day.	VC and Dr. Padmasree Sushobhan Banerjee were present on 16.2.2020. Dr. Banerjee also felicitated by Anadamayee Samity for his award of Padmasree by Govt.
From 28 <sup>th</sup> March 2020 onwards	Nurpur, Goalpara, Mahidapur, Mirzapur, Bahadurpur, Supur, Ballavpur, Raipur, Khoskadam bapur, Dangapara, Amgoria, Sukhbazar, Mahula etc.		Awareness Generation programmes conducted with the help of VDS regarding Social Distancing, Mask wearing among villagers by maintaining social distance by representatives of VDS for protection from COVID-19 in different villages. VDS has also taken no of initiative to distribute foodstuff among needy and poor people of the community during lockdown period in the country. Message given through Whats app Group	In collaboration and active initiative of Village Development Societies under REC. (Whats app group REC VDS Secretary)

**Total Extension Programme-27**

Link of photographs:

: <https://drive.google.com/drive/folders/1FTackiQDBvtCgN3gmN3fveY-2JtxSe4o>

<https://drive.google.com/drive/folders/1-XdKFY9mapAkNbEUBu460jcuiLCQGHae>



Training Programme on Azolla Production



Refresher course for Grass Root level Extension functionaries



Training Programme on Azolla Production



Women Empowerment Programme



**Training programme on Pradhan Mantri Fasal Bima Yojana**



**Vegetable nursery bed preparation**





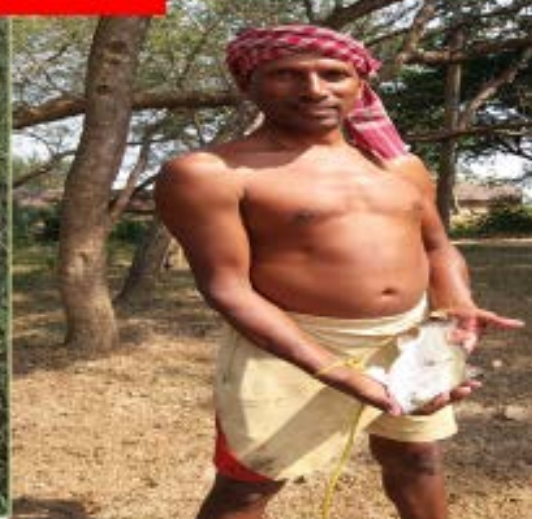
# PRADHAN MANTRI FASAL BIMAYOJONA



**Animal Health Camp**



**FLD on Vetki**





# Cluster Front Line Demonstration (CFLD) Programme on Pulses and Oilseeds





## Picture Of Two Extension Literature

১. শুরু হয়ে থাকে। কেঁচোর আধপচা জৈব পদার্থই খাবার। হিসেবে বেশি পছন্দ। পচনের শুরুতে যে তপ তৈরী হয় সেই তপ কেঁচো সহ্য করতে পারে না। সে জন্য আধপচা জৈব পদার্থই কেঁচো সার তৈরীর উপযুক্ত। নরম জৈব পদার্থ থেকে কেঁচো আড়াআড়ি সার তৈরী করে দেয়। শক্ত, শুকনো ডালপাশ পচতে এবং কেঁচোর খাবারের মত তৈরী হতে অনেক সময় লেগে যায়।

২. জৈব পদার্থগুলির সাথে অর্ধেক পরিমাণ গোবর ভাল ভাবে মিশিয়ে এক জায়গায় জড়ো করে রাখতে হবে।

৩. যে জায়গায় কেঁচো সার তৈরী করা হবে সে জায়গাটি হবে উঁচু। আশ-পাশের জল মেনে চুইয়ে না আসে। রেল ও জলের হাত থেকে রক্ষার জন্য ছাউনি থাকবে। মেকের মাটি পিটিলে পিটিয়ে শক্ত ও সমান করে নিতে হবে।

৪. শক্ত মাটির উপর ৪ ইঞ্চি উঁচু করে নারকোলের চোবড়া, ঝড় বা যা সহজে পচে না এমন জিনিষ বিছিয়ে দিতে হবে। এর ওপর মাটি দিয়ে লেবেল বা সমতল করে নিতে হবে।

৫. লেবেল করা মাটির উপর নির্দিষ্ট ধরনের কেঁচো ছড়িয়ে দিতে হবে। সেই সাথে সস্তব হলে টাটকা কিছু কেঁচো সার ব্যবহার করলে তাতে কঁকুনও পাওয়া যাবে। ঐ কঁকুন থেকে কেঁচোর বাচ্চা তৈরী হবে অল্প দিনের মধ্যে।

৬. কেঁচো ছাড়ার পর গোবর মেশানো আধপচা জৈব পদার্থ ৬ ইঞ্চি থেকে ৮ ইঞ্চি উঁচু করে সমানভাবে কেঁচোর উপর দিতে হবে।

৭. এভাবে কেঁচো সারের যে টিবি তৈরী হল তা ঢেকে দিতে হবে। ঢাকার জন্য পুরোনো টট বা ঝড় ব্যবহার করা যায়।

৮. মাঝে মাঝে জল দিয়ে চিপটা ভিজিয়ে দিতে হবে। প্রথম দিকে নজরদারী বা দেখভাল করা খুবই দরকার। পরের দিকে অবশ্য অত নজরদারী দরকার হবে না। পিপড়ে, উইসপাকা, মুরগী, ইঁদুর ও অন্যান্য পাখি কেঁচোর শত্রু। প্রথমদিকে যখন কেঁচো সংখ্যায় কম তখন নজরদারী বেশী দরকার কেঁচোকে রক্ষার জন্য। জল ও তাপমাত্রার উপর কেঁচোর বংশ বিস্তার নির্ভর করে। চিপির ওপরটা শুকিয়ে গেলে কেঁচো অশেষ্কাকৃত ভেজা, নিচু জায়গায় চলে যায়। চিপিতে জলের অংশ উপর এবং নিচে আলাদা হয়। কেঁচোও পছন্দ মত জায়গায় যেই জে উপর নিচে চলাফেরা করে। এর ফলে চিপির সব জায়গাতেই কেঁচোর যাতায়াত চলে। কেঁচোর এই গুঠা নামা ও চলাফেরার সময় চিপির সমস্ত জৈব পদার্থ ওদের পেটে চলে যায়। আবার সেই সব জৈব পদার্থ মল হয়ে চিপিতেই থেকে যায়। সেটাই উৎকৃষ্ট সার।

৯. ঠিকঠাক পরিবেশ পেলে ৪৫ দিনের মধ্যেই কেঁচো সার তৈরী হয়ে যায়। দানা দানা হালকা কেঁচো সার তৈরী হয়ে গেলে জল দেওয়া বন্ধ করে দিতে হবে এবং এক জায়গায় সার জড়ো করে রাখতে হবে। জল দেওয়া বন্ধ হলে ভেজা জায়গায় সার জড়ো করে নিতে চলে যাবে। ঠিক তখনই উপর থেকে শুকনো কেঁচো সার তুলে নিতে হবে। হেঁকে নিয়ে কেঁচোগুলিকে সরিয়ে রাখতে হবে। এগুলি আবার নতুন কেঁচো সারের চিপি তৈরীর কাজে লাগবে।

রথীন্দ্র কৃষি বিজ্ঞান কেন্দ্র, পল্লী শিক্ষা ভবন, বিশ্বভারতীতে তৈরী কেঁচো সারে নাইট্রোজেনের মান শতকরা ১-১.৫ ভাগ। ফসফেট শতকরা ১.৮-২.২ ভাগ ও পটাশ শতকরা ১-১.৫ ভাগ। দানাদার বলে মাটি হালকা করতে কেঁচো সারের জুড়ি নেই। ফুল চাষ বিশেষ করে চন্দ্রমল্লিকা চাষে কেঁচো সার ব্যবহার করার ফলে সুফল পাওয়া গেছে। চাষিরাও বাড়ছে। মাটিতে চার ভাগের একভাগ কেঁচো সার ব্যবহার করে ফুলের টেব জল জমার সমস্যা এড়ানো গেছে। ফুল, ফল, সবজি এবং মাটির সব চাষেই কেঁচো সার এক প্রয়োজনীয় উপাদান। রাসায়নিক সার ব্যবহার করলে কেঁচোর বংশ বিস্তার বাহত হয়। কেঁচো সারে উৎপাদিত ফসলে রোগ পোকাকার প্রকোপ খুব কম। কেঁচো সার ব্যবহার করলে ফসলের ক্ষতিকারক নিমাতোজেরও নিয়ন্ত্রণ হয়। গত কয়েক বছরের অভিজ্ঞতায় দেখা গেছে, কেঁচো সার ব্যবহার করলে দরকারী জীবাণুর কার্যকলাপও জমিতে বৃদ্ধি পায় এবং জমির উৎপাদন ক্ষমতা বাড়ে। জমির অল্পত্ব এবং ক্ষারত্ব রোধেও কেঁচোর জুড়ী নেই।

একটা কথা মনে রাখা দরকার, সব রকম কেঁচো দিয়ে সার তৈরী না করাই উচিত। নির্দিষ্ট জাতের কেঁচো বেশী কার্যকরী। রথীন্দ্র কৃষি বিজ্ঞান কেন্দ্রে এই কেঁচো পাওয়া যায়। এখান থেকে নিয়ে গিয়ে কেঁচোর বংশ বিস্তার করিয়ে নেওয়া যেতে পারে।

যোগাযোগ করুন :

**রথীন্দ্র কৃষি বিজ্ঞান কেন্দ্র**

পল্লী শিক্ষাভবন, বিশ্বভারতী, শ্রীনিকেতন,  
পোঃ - শ্রীনিকেতন, জেলা বীরভূম, পিন ৭০১২৩৬  
ফোন নং-০৩৪৬৩-২৬৪-৭৭১



## আবর্জনা থেকে নাদেপ সার এবং কেঁচো সার তৈরীর পদ্ধতি



**রথীন্দ্র কৃষি বিজ্ঞান কেন্দ্র**  
পল্লী শিক্ষাভবন

বিশ্বভারতী, শ্রীনিকেতন, পিন - ৭০১২৩৫  
ফোন - ০৩৪৬৩-২৬১-৭৭৪

পাতা কৌকড়ানো রোগ যাতে, গাছে লাগতে না পারে তার জন্য আগে থেকে সতর্কতা অবলম্বন করা দরকার। সেজন্য মাঝে মাঝে অন্তর্বাহী পোকা মারার ঔষধ প্রয়োগ করতে হবে। যদি কোন গাছে এই রোগের আক্রমণ দেখা যায় তাহলে সাথে সাথে আক্রান্ত গাছ তুলে ফেলতে হবে বা মাটিতে পুঁতে ফেলতে হবে। এবং ৭-১০ দিন অন্তর অন্তর্বাহী পোকা মারার ঔষধ যেমন এসিফেট (১ গ্রাম) প্রয়োগ করতে হবে। পেঁপে গাছের গোড়ায় জল দাঁড়ালে বা অতিরিক্ত বর্ষা হলে গাছের গোড়া পচে যেতে পারে। সুতরাং জল নিষ্কাশনের ঠিকমত ব্যবস্থা রাখতে হবে। এছাড়া কপার অক্সিক্লোরাইড (ব্রাইটজ বা কাপটান ৩ গ্রাম প্রতি লিটার জলে) ১০-১২ দিন অন্তর রোগের আক্রমণ কমা না পর্যন্ত ছিটাতে হবে। ফলন:- গাছ পিছু গড়ে ফলন ৭৫-৯০ কেজি। অনেক সময় দেখা গেছে গাছ প্রতি ১২০-১৩০ কেজি ফলন হতে।



## পেঁপের চাষ



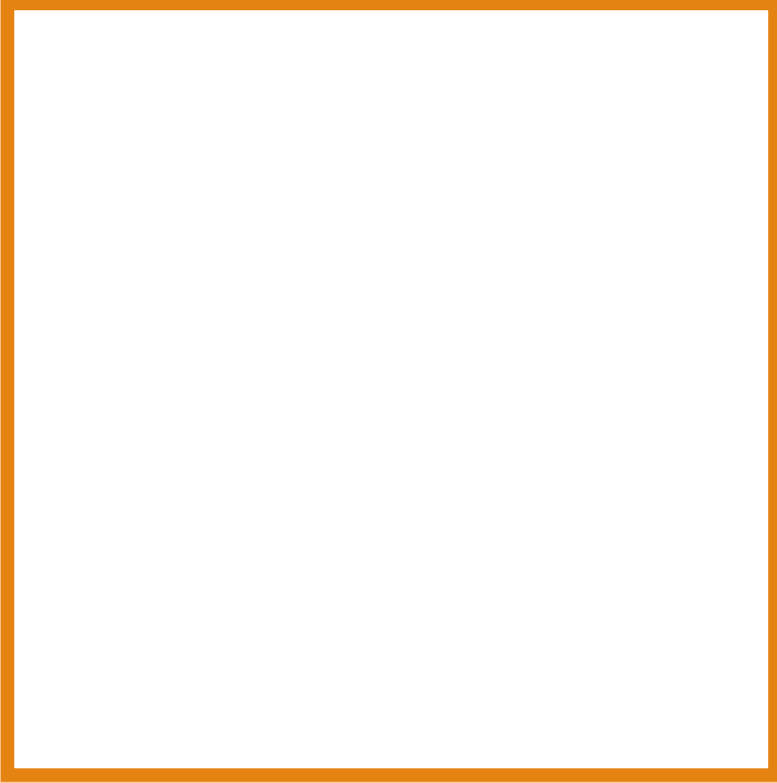
যোগাযোগ করুন :

**রথীন্দ্র কৃষি বিজ্ঞান কেন্দ্র**

পল্লী শিক্ষাভবন, বিশ্বভারতী, শ্রীনিকেতন,  
পোঃ - শ্রীনিকেতন, জেলা - বীরভূম,  
পিন - ৭০১২৩৬  
ফোন নং - ০৩৪৬৩-২৬৪-৭৭১

রথীন্দ্র কৃষি বিজ্ঞান কেন্দ্র  
পল্লী শিক্ষা ভবন , বিশ্বভারতী  
শ্রীনিকেতন, বীরভূম  
৭০১২৩৬  
ফোন নং- ০৩৪৬৩-২৬৪-৭৭১

# Picture Of Two Popular Articles





Picture of Technology assessed




**Distribution of Soil Health Card by Sri Chandra Nath Singh, Honourable Minister of Fishery, Govt of West Bengal, Sri Bikash Roy Chowdhury, Savadhipati, Birbhum Zila Parishad, Honourable Vice Chancellor, Visva-Bharati, Pro Vice-Chancellor, Visva-Bharati, Principal Scientist, ICAR and KVK Scientist in the year, 2015-16**




**রথীন্দ্র কৃষি বিজ্ঞান কেন্দ্র**

পল্লী শিখা ভবন, বিশ্বভারতী  
শ্রীনিবেশন, বীরভূম-৭৩১২৩৬, পশ্চিমবঙ্গ


**সয়েল হেল্থ কার্ড**  
মাটির স্বাস্থ্য সংক্রান্ত বিবরণ পত্র



কর্তৃক নাম উপস্থাপিত  
(১৯৬১-১৯৬২)



কর্তৃক নাম উপস্থাপিত  
(১৯৬১-১৯৬২)




!...তার পরে মণ্ডির ক্ষমতা। সে মণ্ডির ক্ষমতা  
অন্যেই। এই হচ্ছে মণ্ডির ক্ষমতা। সে  
অন্যেই মণ্ডির ক্ষমতা। সে মণ্ডির ক্ষমতা  
অন্যেই মণ্ডির ক্ষমতা। সে মণ্ডির ক্ষমতা।

— মণ্ডির ক্ষমতা

!...কৃষি ক্ষমতা পত্র, জিও-কমিউনিটি বিজ্ঞান কেন্দ্র (Iy. butid) এর পক্ষে  
এইক্ষম কৃষি ক্ষমতা পত্র, জিও-কমিউনিটি বিজ্ঞান কেন্দ্র (Iy. butid) এর পক্ষে  
এইক্ষম কৃষি ক্ষমতা পত্র, জিও-কমিউনিটি বিজ্ঞান কেন্দ্র (Iy. butid) এর পক্ষে  
এইক্ষম কৃষি ক্ষমতা পত্র, জিও-কমিউনিটি বিজ্ঞান কেন্দ্র (Iy. butid) এর পক্ষে

International  
Year of Soils  
2015



Healthy Soils  
for  
a Healthy Life

মাটির স্বাস্থ্য সূচক


ক্রমিক সংখ্যা	উপাদান	সুপারিশ সঙ্খ
০১.	মুগ / ভিগাম	
০২.	অমাল্য	
০৩.	অমাল্য	

বিঃ দ্রঃ — অমাল্য পত্রের পত্রের ছিটকে প্রয়োগ করতে হবে। প্রথমবার মাত্র বেনার  
২০-২৫ দিনের মাঝে ছেঁচের পরিমাণ ২০০ লিটার করে হবে। দ্বিতীয়বার মাত্র বেনার ৪০-৪৫ দিনের মাঝে  
ছেঁচের পরিমাণ ৪০০-৪৫০ লিটার করে হবে। মাত্রের অমাল্য প্রয়োগ করলে পত্রের পরিমাণ ৪-৫ টা ফসলের পর  
অমাল্য মাত্রের প্রয়োগ করার প্রয়োজন হবে না। মাত্রের অমাল্য পত্রের ছিটকে বেনার একতরফে অমাল্য  
প্রয়োগ করুন।

১ কে. জি. মাইক্রোবেন = ২ কে. জি. ২০০ গ্রাম ইউরিয়া  
১ কে. জি. ফসফেট = ৬ কে. জি. ২০০ গ্রাম এস. এস. পি. অথবা  
১ কে. জি. ফসফেট = ২ কে. জি. ২০০ গ্রাম ডি. এ. পি.  
১ কে. জি. পটাস = ১ কে. জি. ৬৫০ গ্রাম এস. ও. পি.

**DEPARTMENT OF AGRICULTURE & COOPERATION**  
Ministry of Agriculture & Farmers Welfare  
Government of India

**RATHINDRA KRISHI VIGYAN KENDRA**  
Palli Siksha Bhavana (Institute of Agriculture)  
Visva-Bharati



Soil Health Card  
Swasth Dhara, Kheti Haras

Soil Health Card No. : \_\_\_\_\_  
Name of Farmer : \_\_\_\_\_  
Validity : From \_\_\_\_\_ To \_\_\_\_\_

ভারপ্রাপ্ত আধিকারিকের স্বাক্ষর  
মুদ্রিকা এবং জল পঞ্জিকাচার  
কর্তৃক কৃষি বিজ্ঞান কেন্দ্র

কার্যক্রম পরিচালকের স্বাক্ষর  
কর্তৃক কৃষি বিজ্ঞান কেন্দ্র  
পল্লী শিখা ভবন

কার্যক্রম পরিচালকের স্বাক্ষর  
মুদ্রিকা এবং জল পঞ্জিকাচার  
কর্তৃক কৃষি বিজ্ঞান কেন্দ্র  
৩৬৬৬ ৩৬৬৬-৩৬৬৬-৩৬৬৬  
ই-মেইল : rathindrakvk@gmail.com  
ওয়েব সাইট : www.rkvk.ac.in

মাটির নমুনা পরীক্ষার ফলাফলের ভিত্তিতে নির্দিষ্ট ফসল পাওয়ার  
জন্য সার জৈব সার সহ) জায়গার সুপারিশ

ক্রমিক সংখ্যা	ফসল এবং জাত	নির্দিষ্ট ফসল (Reference yield) (কে. জি./ হেক্টর) (Kg./ha)	সুপারিশকৃত সারের সঙ্খ সঙ্খ —১				অমাল্য সার
			জৈব সার/ ফসল সার	প্রধান রাসায়নিক সার সঙ্খ	সহায়ক রাসায়নিক সার সঙ্খ	অমাল্য সার	
০১.	প্রথম ফসল :						
০২.	দ্বিতীয় ফসল :						
০৩.	তৃতীয় ফসল :						
০৪.	চতুর্থ ফসল :						
০৫.	পঞ্চম ফসল :						
০৬.	ষষ্ঠ ফসল :						

Distribution of Soil Health Card by Professor Biswapati Mandal, Eminent Soil Scientist, Bidhan Chandra Krishi Viswa Vidyalaya, Honourable Registrar, Visva-Bharati, Principal, Palli Siksha Bhavana Visva-Bharati and KVK Scientist in the year, 2017-18

মাটির নমুনা পরীক্ষার ফলাফলের ভিত্তিতে নির্দিষ্ট ফসল পাওয়ার জন্য সার (জৈব সার সহ) প্রয়োগের সুপারিশ									
ক্রমিক সংখ্যা	ফসল এবং জাত	নির্দিষ্ট ফসল (Referance yield) (কে. জি./হেক্টর) (Kg./ha)	সুপারিশকৃত সারের গুণক সমূহ —২					মাটিতে প্রচুর প্রয়ো শক্তকর মাট	খাদ্যাদ সার
			জৈব সার	প্রধান রাসায়নিক সার সমূহ			সালফার		
				জৈব সার	N	P			
মূল সার (কে. জি./হেক্টর)	প্রথম সার (কে. জি./হেক্টর)	দ্বিতীয় সার (কে. জি./হেক্টর)	কে. জি./হেক্টর	কে. জি./হেক্টর	কে. জি./হেক্টর				
০১.	প্রথম ফসল :								
০২.	দ্বিতীয় ফসল :								
০৩.	তৃতীয় ফসল :								
০৪.	চতুর্থ ফসল :								
০৫.	পঞ্চম ফসল :								
০৬.	ষষ্ঠ ফসল :								

পরীক্ষার্থীর নাম	মুজিকা এবং জেলা পরীক্ষাগার, রবীন্দ্র কৃষি বিজ্ঞান কেন্দ্র, পল্লী শিক্ষা ভবন বিশ্বভারতী, ব্রীন্দিকেশ্বর, বীরভূম				
মাটির নমুনা পরীক্ষার ফল					
ক্রমিক সংখ্যা	মাটির বৈশিষ্ট্য	পরীক্ষার প্রাপ্ত মান	একক (Unit)	মন্তব্য (Rating)	মন্তব্য
০১.	ভৌত প্রকৃতি ( কিল বেড )	বেলে/পলি/বোশাশ/এটেল			
০২.	বিক্রিয়া (pH.)			মু. অম/খাস/নিরপেক্ষ/মু. অম/খাস	
০৩.	ক্যাটায়ন এক্সচেঞ্জ ক্যাপাসিটি (EC)		mS/cm	উপযোগী/অনুপযোগী	
০৪.	জৈব কার্বন [Organic Carbon (OC)]		%	বেশী/মাকারি/কম	
০৫.	গ্রহণযোগ্য নাইট্রোজেন [Available Nitrogen (N)]		Kg/ha	বেশী/মাকারি/কম	
০৬.	গ্রহণযোগ্য ফসফরাস [Available Phosphours (P)]		Kg/ha	বেশী/মাকারি/কম	
০৭.	গ্রহণযোগ্য পটাশিয়াম [Available Potassium (K)]		Kg/ha	বেশী/মাকারি/কম	
০৮.	গ্রহণযোগ্য সালফার [Available Sulphur (S)]		mg/Kg	বেশী/মাকারি/কম	
গ্রহণযোগ্য অন্যান্য সমূহ					
০৯.	গ্রহণযোগ্য জিঙ্ক [Available Zinc (Zn)]		mg/Kg	বেশী/মাকারি/কম	
১০.	গ্রহণযোগ্য বোরন [Available Boron (B)]		mg/Kg	বেশী/মাকারি/কম	
১১.	গ্রহণযোগ্য লোহা [Available Iron (Fe)]		mg/Kg	বেশী/মাকারি/কম	
১২.	গ্রহণযোগ্য ম্যাঙ্গানিজ [Available Manganese (Mn)]		mg/Kg	বেশী/মাকারি/কম	
১৩.	গ্রহণযোগ্য তামা [Available Copper (Cu)]		mg/Kg	বেশী/মাকারি/কম	

কৃষিক্ষেত্র সংক্রান্ত তথ্য		
নাম		
জিলা		
গ্রাম		
উপ-জেলা/থানা		
পোস্ট অফিস		
সিলা		
আধার নম্বর	ফোনের কার্ড নং	
মোবাইল নম্বর		
মাটির নমুনা সংক্রান্ত তথ্য		
মাটির নমুনা নম্বর		
নমুনা সংগ্রহের তারিখ		
সারের নম্বর		
সফর নম্বর / মাস নম্বর		
কে. এস. নম্বর		
জমির পরিমাণ		
জমির ভৌগোলিক অবস্থান [Geo Position (GPS)]	ধ্রু (Latitude)	দ্রাঘিমাংশ (Longitude)
সেচামূলক / সেচ বিহীন		
জমির অবস্থান (হিল্লি/খাস/বিলি/বিলু)		
মাটির পরীক্ষার স্থান	I	
অন্য বিকল্পের অবস্থা	E	
জমির হিসেব কোন অসুবিধা থাকলে তার বিবরণ	N	
জমির জাতীয়তা শস্য শস্য		
জমির কোন ফসল চাষ করবেন?		

**Sri Tapan Kumar Ghosh being felicitated by the Honourable Union Cabinet Minister for Ministry of Agriculture and Farmers' Welfare, Govt. of India, Sri Radha Mohan Singh**





Awarded Farmers at the Foundation Day Celebration of Eastern Regional Research Complex of ICAR at Patna on 22.02.2016





D. Shri Tapan Kumar Ghosh (On the Left Side of Shri Radha Mohan Singh Ji) was being conferred the Innovative Farmer Award for his Pioneering Role in Back Yard Poultry Farming with Rural Improved Poultry Breed and with a focus on Breed Up-gradation by the Honorable Minister of Agriculture and Farmers' Welfare, Shri Radha Mohan Singh Ji on 22.02.2018 at the ICAR Eastern Regional Research Complex, Patna, Bihar.



Ekangi (*Kaempferia galanga*) Cultivation as crop diversification for doubling farmers income- an initiative taken by RKVK, Birbhum, W.B- a Success story





Close View of the Innovated Portable SRI Marker



Fellow Farmer of Sri Tapan Kumar Ghosh, Sri Monotosh Ghosh is operating the Innovative Portable SRI Marker



Cross marking in single operation with the innovative Portable SRI Marker



Sri Tapan Ghosh assembling the Innovative Portable SRI Marker

**Innovative Handmade Low Cost Manual Incubator**

Sri Debasish Mandal of Village: - Surul, P. O. – Sriniketan,  
Pin. – 731236, Dist. – Birbhum, West Bengal along with the Rathindra KVK  
Scientist at his Small Scale Dairy Farm



# Swachh Bharat Abhiyan





**KRISHI KALYAN ABHIYAN 2018**



**Mahila Kisan Divas 2018**





## Medicinal Plant Garden





**VERMI-COMPOST UNIT**

**RATHINDRA KVK**

**BIRBHUM, W.B.**





**Azolla Unit**



## Poultry and Duckery Unit

Progeny Orchard of Ber



Progeny Orchard of Mango



Progeny Orchard of Guava



Progeny Orchard of Musambi



Progeny Orchard of Water Apple

Progeny Orchard of Drumstick





SHOT ON HOT 7 Pro  
AI Quid Lens





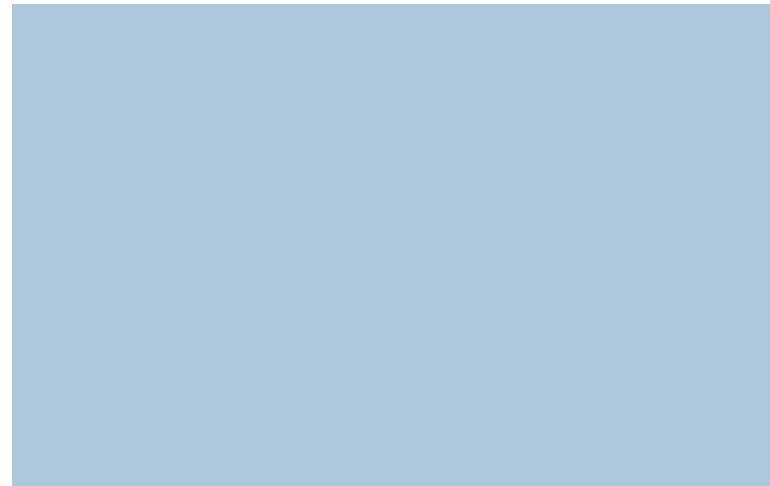
## Soil and Water Testing Lab



Plant Diagnostic Lab



Nursery unit





**Progeny Orchard of Banana**



**Progeny Orchard of Pomegranate**