

On the occasion of 125th anniversary of Ramakrishna Mission (1897 to 2022)

Vivekananda Krishi Mitra Prakalpa

(VKMP)

(2023-24)

Reporting period: April 23 to March 2024



Divyayan Krishi Vigyan Kendra, Ranchi

&

RKMVERI

(Under STI Hub Sponsored by DST, GoI)

Ramakrishna Mission Ashrama

Morabadi, Ranchi – 834008

**Sponsored by: Ministry of Culture, Government of India
through Ramakrishna Mission, Belur Math, Head quarters**

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Vivekananda Krishi Mitra Prakalpa (VKMP) (2023-24)



**Divyayan Krishi Vigyan Kendra
&
STI Hub of RKMVERI
Ramakrishna Mission Ashrama, Morabadi, Ranchi - 834008
Reporting period: 01 April 2023 to 31 March 2024**

Introduction:

Organic farming practices promote soil health, reduce chemical pollution, and protect biodiversity. By avoiding expensive chemical pesticides and fertilizers thereby reducing cost of cultivation. It also contributes to a healthier ecosystem. Organic farming/Natural farming supports local economies, as it often involves small-scale farmers. It encourages community-based agriculture and reduces dependence on external inputs. Keeping these aspects on view, “**Vivekananda Krishi Mitra Prakalpa**” was to develop organic cluster in Nawagarh panchayat under Angara Block of Ranchi District. The project facilitated systems for easy collection of Cow dung, Cow urine through cemented cow floor with collection pit which helped farmers to prepare different low cost or no cost organic liquid manures, pesticides etc. using cow dung and cow urine.

Objectives:

- ✚ To develop model organic panchayat with a cluster of five villages.
- ✚ To increase the profitability for achieving the goal of doubling farmer’s income.
- ✚ To decrease the input cost and improve the soil fertility by using available natural resources.

Area of Operation:

Five villages of Nawagarh Panchayat (Obar, Nawagarh, Barkigorang, Soso and Rangamati) under Angara Block of Ranchi, Jharkhand.

Sl. No	Village	Total No. of Farmers	Total land in the patch (Acre)	No. of Patch	Cattle
1	Barkigorang	32	51.75	2	96
2	Soso	32	50.65	2	94
3	Obar	32	59.15	2	142
4	Nawagarh	32	42.1	2	188
5	Rangamati	30	55.3	1	126
Total		158	258.95	9	646

Deliverables:

- ✚ Creating Awareness and building skill of farmers on Organic/Natural Farming.
- ✚ Conducting demonstration on organic/natural farming.
- ✚ Creation of infrastructure like cemented floor for cowshed and plantation of native indigenous plants required for organic/natural farming
- ✚ Distribution of seeds.

- ✚ Distribution of Plastic Drums for preparation of liquid fertilisers and other organic bio input.
- ✚ Building confidence of farmers in natural/organic farming by doubling their income.

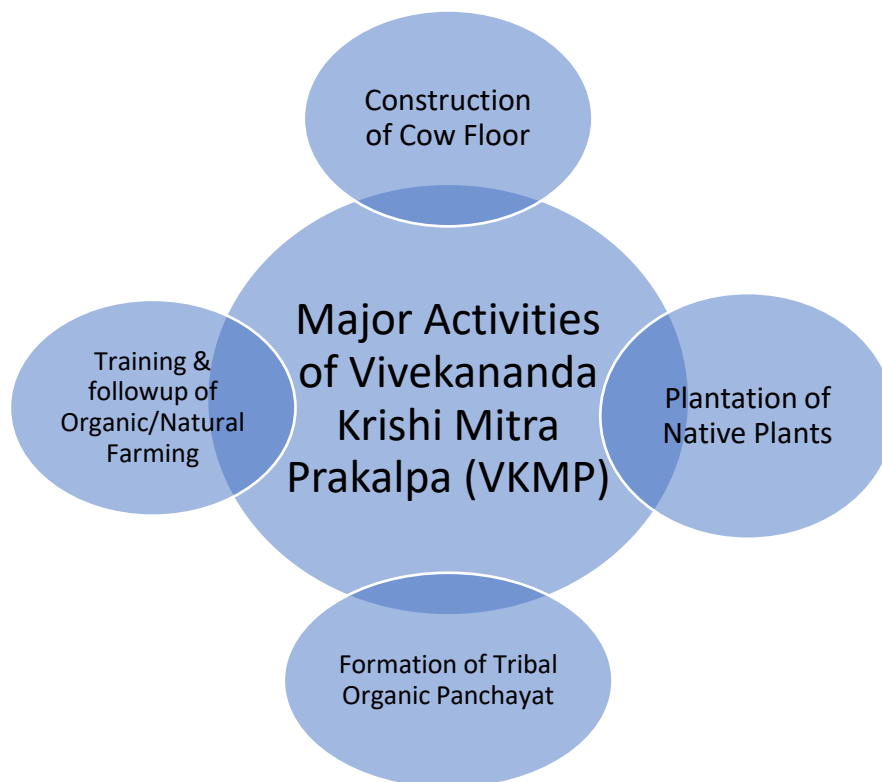
Input Material Distribution:

Targets				Achievement
Sl. No	Items	Quantity per Farmer	Total quantity	Remarks
1.	Dhaincha seed	2 kg	256 kg	Distributed 2kg/128 farmers & sown by everyone.
2.	Subabul seed	100 gm	12.800kg	Distributed 100 gm/128 farmers and sown by everyone.
3.	Tephrosia seed	100 gm	12.800kg	Distributed 100 gm/128 farmers and sown by everyone.
4.	Bokful plant	7 nos	896 nos	Distributed 7plant/128 farmers and planted by everyone.
5.	Neem Plant	2 nos	316 nos	Distributed 2plant/158 farmers and planted by everyone.
6.	Karanj Plant	2 nos	316 nos	Distributed 2plant/158 farmers (Rangamati-30farmers) and planted by everyone.
7.	Jamun Plant	1 nos	158 nos	Distributed 1plant/158 farmers (Rangamati-30farmers) and planted by everyone.
8.	Tamarind plant	1 nos	158 nos	Distributed 1plant/158 farmers (Rangamati-30farmers) and planted by everyone.
9.	Perennial Dhaincha plant	4 nos	512 plants	Distributed 4plant/128 farmers and planted by everyone.
10.	Cow floor	Rs 6000	128 no	150 sqft Cowfloor &Nad Construction done for 128 farmers.
11.	Plastic drum	2 nos	286nos	Distributed 2 drum (200 lit+100 Lit)/128farmers in 4 clusters & 2 drum(50lit+35lit) /30 farmer of Rangamati.
12.	Yellow Sticky Trap	7 nos	896 nos	Distributed 7 traps/128 farmers and used by everyone.
13.	Azola Plastic Sheet	2.5 meter	320 m	Distributed 2.5 meter/128 farmers and used by everyone.

Activities Undertaken:

- i. *Training on Organic/Natural Farming:* Training of Natural farming provided to all beneficiaries of the scheme.
- ii. *Construction of Cow Floor:* Construction of Cemented cow floor was made for 128 farmers for easy collection of cow urine for making inputs properly.
- iii. *Use of Dhaincha and Subabul:* In kharif, Dhaincha seeds along with Tephrosia and Subabul seed sown in the bunds for green manuring.
- iv. *Use of Dhaincha in rice for Green manuring:* Dhainchawas used as a green manuring before 40 days of Rice transplantation. Before the flowering stage farmers incorporated them into their field.

- v. *Plantation of Native Indigenous Plants:* - Native plants such as Neem-2, Karanj-2, Tamarind-1, Jamun-1, Bokful-7 were planted by farmers. Also, Perennial dhaincha plants were planted for seed production.
- vi. *Making of Organic Bio-Inputs:* Farmers are making Liquid fertilizer like Jeevamrit, Sasyagavya, Panchagavya, Kunapajala continuously.
- vii. *Seed Treatment & Line Transplantation of Paddy:* Farmers treated seed of rice with BeejaSanjibani and 10% cow urine formulation. Transplantation is being done maintaining 15x20 cm. distance.
- viii. *Use of Azola By farmers:* Farmers made a pit for growing Azolla for applying into the paddy field for fixing atmospheric nitrogen and to prevent weeds and water evaporation. Azola helped to increase the yield of rice by 20-30%.
- ix. *Use of Bird Perches in the field:* Farmers installed bird perches in the field which can invite several birds to feed insect larvae in the rice fields.



Construction of Cow Floor

Cemented cow floors were constructed for 128 farmers

Structure of cow floor: Cow floor of 150 square feet or more was constructed along with the structure for cow urine storage and Naad. Size of Cow urine pit may vary based on the number of cow or buffalo, the farmers have. The size of the Naad was kept at 1.5 X 1.5 X 1.5 feet (Length X Height X Depth). One channel was made for easy run off of cow urine to the urine storage.

The objectives of cow and urine storage are 1. To prepare organic manures out of these 2. Organic cultivation of crops 3. Year-round supply of fresh vegetables for households 4. Reduce cost of cultivations etc.



Cemented Cow floor Use of Nad for feeding livestock Collection of Cow urine

Training & follow-up of Organic/Natural Farming

1st Training: One-day training program was organised to make people aware about the purpose of the project. The training program was organised on 1st June 2023. Swami Bhaveshananda Maharaj (Secretary RKMA), Manoj Kumar Singh, Dr. Avijit Kr. Dutta, Ajit Upadhyay, and all staff of STI Hub were present. Information was given to all farmer regarding plantation of different plants like Bakful, Jamun, Neem, Karanj Tamarind and their uses in organic farming.



Dhaincha, Tephrosia and Subabul seed were also distributed on the same day and also suggested to sow all these as the rain starts. Uses of drum Cow urine and cow dung for organic farming were also taught by Rev. Secretary Maharaj. Training was provided to farmers on Natural farming by Mr. Manoj Kumar Singh about various bio-input preparation technique and their use in Natural farming. He told farmers to use Dashparni, Angiyastra, Neemastra as a natural bio-repellent and Sasyagabya, Panchagaya and Kunapajala as a bio-fertilizer in a daily basis. Also told about the presence of beneficial bacteria such as *Azospirillum*, *Azotobactor*, *Rhizobium*, *Pseudomonas*, PSB which is necessary in Natural farming practices.

2nd Training: One-day training program has been organised for second time organised on 12th September ,2023 at our training cum demonstration farm, Getalsudto aware the selected farmers on natural farming and development of model organic cluster. Feedback of crops has shared by farmers to the scientists of Divyayan Krishi Vigyan Kendra and the possible solution has also shared with all farmers.



During the programme Swami Bhaveshananda Maharaj (Secretary RKMA), Manoj Kumar Singh, SMS in Agronomy of KVK, gave the training on different practices of natural farming. Also Mr, Ajit Upadhyay and all staff of STI Hub, RKMVERI, Mukhiya ji of Nawagarh Panchayat Bhuneshwar Bediya, Jila Adyakshya Rajendra Shahi Munda were present on the training programme.



Follow-up of Organic Cluster: Follow-up visit was done for overview the organic cluster and On field scenario of villages. During 14th April Mr. Manoj Kumar Singh visited Organic cluster of Soso, Barkigorang , Rangamati and Obar, where he shared his feedback about the chosen cluster area , identified gaps which need to fulfill and motivate some farmers for natural farming activities.



On 17th May Another Followup visit was done on every cluster for farmers activity on Cow floor and Nad construction. On that day Dr. Rajesh Kumar, Dr. Bharat Mahto, Mr. Manoj Kumar Singh visited the Clusters of Nawagarh and provided their suitable feedback to fulfil the gaps.

On 29th June 23, Swami Bhaveshananda Maharaj (Secretary RKMA), Dr Ajeet Kumar Singh, Dr. Avijit Kr. Dutta, Dr Vishal Dhote, Dr Ajeet Kumar

Singh & the scientists of Divyayan KVK visited Barkigorang to participate a Rakshabandhan Programme for inauguration of man making road. During that day Sec Maharaj, Dr. Avijit Kr. Dutta, Dr Vishal Dhote, visited the beneficiaries house to see the activities of Vivekananda Krishi Mitra Prakalpo. He asked the farmers about their thought regarding the benefits of the VKMP schemes and the practices they are carrying out. He also visited farmer's field to looking forward to their activities.



Different Activities of Organic Farming Practices

Organic farming practices by using Bio-Inputs: Two Drums was distributed to all beneficiaries of Vivekananda Krishi Mitra Prakalpa to making of Liquid fertilizer like Jibamrit ,Sasyagabya , Panchagabya continuously & used in their fields. The drums were capacity of 300 litre (one drum of 200 litre & one drum of 100 litre) which can easily fulfil the needs organic input preparation for farmers of farmers.



Farmers had collected 4-5 litre cow urin on avarage daily based on the number of cow or buffalo which is essential for liquid fertilizers. The farmers are started making Jivamrit, Sanjibani, & Dashparni to use in Rice.



Collection of cow-urine & preparation of bio-inputs by VKMP farmers

Use of Green Manuring by Dhaincha: Farmers sowed the seeds of Dhaincha as a green manuring before 40 days of Rice transplantation. Before the flowering stage farmers incorporated them into their field. This helped to provide 15-20 Kg organic nitrogen per acre along with maintaining CN ratio, P^H value and overall soil health. Dhaincha provided organic nitrogen & all nutrients to the top layer of soil from air & also by the taproots. This helped to reduce weed in rice field by releasing organic acids.



Line sowing cultivation of Paddy: Farmers cultivated paddy by natural farming method. Seed treatment of rice was done with Beeja Sanjibani and 10% cow urine formulation. Line wise transplantation was done by the farmers where they used a rope to transplant the



seedlings. The distance maintained by farmer was 15x20 cm. This helped to reduce weeds by running Cono weeder into the field and also helped to prevent several pests & disease.

Use of Azola for Green Manuring and weed control:Farmers have made a pit by digging the soil and released Azola culture by hold the water. Some farmers are also used already made cemented



concrete tank. The pit area is around 7x3x0.5(LxWxD) feet. Farmers applied field soil and cow dung into pit for faster growth of Azola culture. The culture will spread around the pit and then released into the paddy field after one week of transplanting. This will help to fix nitrogen in the field along with prevent weeds growth and water evaporation. Azola also can help to increase the yield of rice by 20-30%.

Use of Bird Perch for natural insect control:Birds play a vital role in reducing and maintaining insect population. By installing bird perches in the field helped several birds like Black Drongo,



Myna, Bulbul and sparrows to visit field and feed insect larvae in the rice fields. Farmers started making bird perch in the field after completing transplantation of Rice. The perches are 3-4 feet tall made with bamboo and sticks which was essential for resting of predatory birds to look at the preys in the fields.

Plantation of native Plants:Native plants are easy to grow and need less amount of water. It also provides nectar for pollinators and fruits and shelter for birds. Some native plants have medicinal value and some of are essential for regular human consumption.

By Vivekananda Krishi Mitra Prkalpo native plants were distributed for plantation in village. 158 farmers were received Neem-2, Karanj-2, Tamarind-1, Jamun-1, Bokful-3 plants from this scheme. They transplanted the plants on the bunds and corners of their fields which helped them to make leaf manure, pesticides and getting fruits in future.



Conclusion: (Formation of Tribal Organic Panchayat)

Farmers of the selected cluster of Nawagarh panchayat raised crops by following traditional method of farming without using chemicals in the fields. Most of the farmers of Organic cluster area (Obar, Soso, Barkigorang and Nawagarh) were small and marginal. Low-cost Organic farming technologies by this project contributed to some extent for poverty alleviation and food security by a combination of many features such as;

- Increasing yields in low input areas
- Increasing the bio diversity locally
- Increasing income and / or reducing costs
- Producing safe and varied food; being sustainable in the long term

Out of 100 VKM farmers, 10 farmers have been selected from 5 villages,taking 2 from each village. They will act as leaders for each village to cultivate and sell in group. Their farms will be given special attention to serve as village level training cum demonstration centre.

After the construction work, follow up programme was conducted which was carried out by STI Hub staff. Organic cultivation process was followed under the guidance of STI Hub staff in all three different seasons. In kharif, Dhaincha seeds were sown and along with the Teprocia and subabul seeds sown in the bund for green manuring. Through Vivekananda Krishi Mitra Prakalpa approx. 250 acres of land has become organic under Nawagarh Panchayat which is on the way towards first ‘Model Tribal Organic Panchayat’ under Angara block of Ranchi district.

Pictorial Overview of Activities:



Completed cemented cow floor, Rajabandh ,NawagarhUse of Cow Floor Nad for feeding cows



Distribution of Drums for input preparation



Organic input Jivamrit preparation by farmers.



Training on organic/Natural farming on 12th Sept,2023



Group picture with all VKMP farmers



Distribution of Tephrosia ,Dhaincha seeds to Farmers



Distribution of Taprocia , Dhaincha seeds to Farmers



Distribution of Native Plants to all VKMP farmers



Plantation of Native Plant by VKMP farmer Sugan Devi



Use of Yellow Sticky Trap by VKMP farmer Jitubhogta



Distribution of Dashparni, Bokful Plant, Perennial dhaincha plants



Use of Dashparni by VKMP farmer LaghnuBediya



Distribution of Yellow Sticky Trap, Azola sheet etc.



Field visit to Nawagarh for followup activities & interaction with beneficiaries



Field visit to Obar for follow-up activities & interaction with beneficiaries

विवेकानंद कृषि मित्र प्रकल्प योजना अंतर्गत चयनित किसानों को दिया गया प्रशिक्षण

दिव्यायन कृषि विज्ञान केंद्र के कृषि वैज्ञानिक ने किसानों को जैविक खाद बनाने की तकनीक से अवगत कराया



आजाद सिपाही संवाददाता

अनगड़ा। रामकृष्ण मिशन विवेकानंद शैक्षिक एवं अनुसंधान संस्थान मोराबादी रामकृष्ण मिशन आश्रम मोराबादी रांची द्वारा संचालित विवेकानंद कृषि प्रकल्प योजना अंतर्गत नवागढ़ पंचायत के चयनित 154 किसानों का एक दिवसीय प्रशिक्षण मंगलवार को गेतलसुद स्थित प्रत्येक्षण फार्म में किया गया। इस योजना अंतर्गत सभी किसानों का काउच फर्श बनाकर दिया गया, ताकि जैविक तरल एवं ठोस खाद आसानी से किसान बना सकें। मालूम हो कि आदिवासी आदर्श नवागढ़ पंचायत को जैविक पंचायत के रूप में विकसित करना है। प्रशिक्षण में

दिव्यायन कृषि विज्ञान केंद्र के कृषि वैज्ञानिक डॉ. मनोज कुमार सिंह ने किसानों को जैविक खाद बनाने की तकनीक से अवगत कराने के साथ हरा खाद जैसे ढ़ैचा आदि का उपयोग से लाभ के संबंध में विस्तार पूर्वक समझाया। वहीं स्वामी भवेशानंद जी महाराज सचिव रामकृष्ण मिशन आश्रम ने किसानों को अपनी जमीन को उपजाऊ बनाने हेतु टेपरिसिया पीधे, मवेशियों का चारा हेतु सुबबूल आदि लगाने का सलाह दिए। कहा कि इसके साथ जीवन के पांच सूत्र शिक्षा, संस्कार, संगठन, समेकित जैविक खेती एवं दान को आधार मानकर कार्य में लगे रहने से पंचायत का विकास अवश्य होगा।

मौके पर स्वामी निश्चितानंद जी महाराज, जिन सदस्य राजेन्द्र शाही मुण्डा, नवागढ़ मुखिया भुनेश्वर बेदिया, अजित उपाध्याय, एस्टीआइ हब के प्रोजेक्ट कॉर्डिनेटर सुदीप सतपथी, प्रोजेक्ट सहायक गंभीर महतो, रोहित शाही, तुलसी महतो, संतोष बेदिया, जगदीश भोगता, नरेन्द्र नाथ बेदिया, विशेश्वर महतो सहित सैकड़ों ग्रामीण मौजूद थे।

SONA NEWS
हर घंटे खबर आपके हाथ की खबर आज की खबरें कल को आज ही पढ़ें

12-09-2023, राँची, रामगढ़, जमशेदपुर, बोकारो, धनबाद (डिजिटल)

विवेकानंद कृषि मित्र प्रकल्प योजना अन्तर्गत चयनित 154 किसानों को दिया गया एक दिवसीय प्रशिक्षण

सोना न्यूज, अनगड़ा (संवाददाता) बताया। वहीं स्वामी भवेशानंद महाराज रामकृष्ण मिशन विवेकानंद शैक्षिक एवं सचिव रामकृष्ण मिशन आश्रम ने अनुसंधान संस्थान रामकृष्ण मिशन आश्रम मोराबादी राँची द्वारा संचालित चारा हेतु सुबबूल आदि लगाने का सलाह दिये इसके साथ-साथ पांच सूत्र शिक्षा, 154 किसानों का एक दिवसीय प्रशिक्षण गेतलसुद स्थित कृषि प्रत्येक्षण एवं दान को अधार मानकर कार्य में लगे फार्म में दी गई। इस योजना अन्तर्गत सभी किसानों का काउच फर्श बना दिया गया है। ताकी जैविक तरल एवं ठोस खाद आसानी से किसान बना सकें। विदित हो कि आदिवासी आदर्श नवागढ़ पंचायत को जैविक पंचायत के रूप में विकसित करना है। प्रशिक्षण में दिव्यायन कृषि विज्ञान के कृषि वैज्ञानिक डॉ. मनोज सिंह ने किसानों को जैविक खाद बनाने की तकनीक के साथ जगदीश भोगता, नरेन्द्र नाथ बेदिया, विशेश्वर महतो, आदि के अलावा लाभ के सम्बन्ध में विस्तार पूर्वक लगभग 150 ग्रामीण उपस्थित थे।

News paperClippings of VivekandaKrishiMitraPrakalpa activities..



DISPLAY BOARD IN THE ENTRY OF EACH VILLAGE