



**Creating a difference in the lives
of the poor in Sundarban**



Annual Report 2020-2021

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of the poor in Sundarban**

Joygopalpur Gram Vikash Kendra (JGVK)

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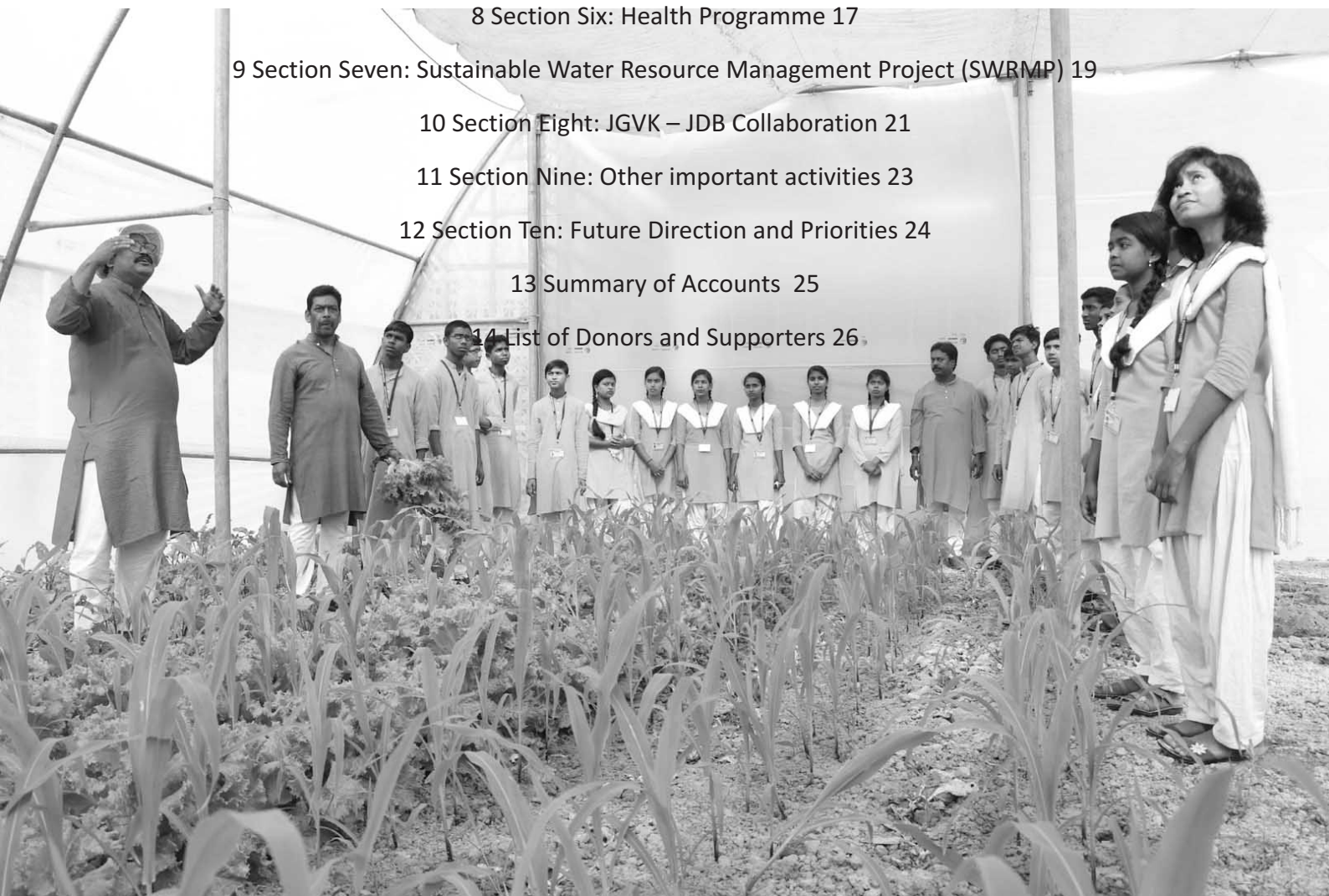
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Forward: A note from the Secretary

The year started with a gloomy scenario – the entire world affected by Covid-19 pandemic. The 68 day long lockdown completely paralyzed the rural population and poor in particular. Usually large number of people in Sundarban migrate to other places for employment are jobless due to lockdown related restrictions. In this situation we, the staff, volunteers and village committee members discuss and decided to do something for these affected people. Our support work started from Sunday, the April 5th, 2020 when we distributed food items and other daily requirements to 60 households from neighboring villages. Since then every week we distributed daily

necessities to give some relief among the badly affected population in our area.

On May 20th severe cyclone 'Amphan' hit the south Bengal and devastated the coastal Sundarbans. High wind speed along with high intensity of rain uprooted trees, destroyed crops, fruit and vegetable gardens, destroyed mud houses. The flood water covered the fields and damage the standing crops, high intensity of rain overflows the pond water. Thus, double tragedy hit the people of coastal Sundarban badly. Therefore JGVK mobilized the local community, including local traders and businessman along with staff, volunteers engaged in relief and rebuilding work. Material and financial support received from local community, local businessman, friends, well wishers, donors from various parts of India and abroad. Along with this we also spent money to purchase essential materials from its own fund. JGVK staff also generously contributed in the relief work in addition to identify the affected households, prepare list, procure and pack relief materials, transport the packets to the distribution place. We also facilitated other organizations in their relief distribution work. Our relief effort continued till November, 2020 and places we covered includes different places of Basanti and Gosaba blocks, Hingalgunj, Sandeshkhali blocks etc. In total JGVK supported about 3500 households.

In July-August we felt the need for rebuilding work. Accordingly we have developed a nursery for fruit trees. From August-September onwards we also started supplying chicks and ducklings, fish spawn, fingerlings, vegetable seeds to the affected population who completely lost their economic resource base in Amphan. We also procure saplings of fruit trees and distributed among the affected households. This rebuilding work continued till end of the year. About 1200 households were supported as part of rebuilding work.

I must mention the efforts made by our health unit. These include engagement of our trained health workers and volunteers on the awareness of 'DO's and 'Don'ts' during this pandemic period. Engaged one full time medical doctor in the organization. Based on our request IGF, Denmark sent medical equipments for Covid'19 treatment. This also provides psychological support to us. All these helped us to prepare for fight against the deadly disease. I also mention 1700 masks and 1000 cotton bag prepared by our home industries department were distributed among the local people.

In spite of long lockdown, our engagement in relief and rebuilding work, we continued our regular programmatic activities. These are highlighted in the report. The report also mentions the future direction (Section 10). Here I specially mention our continued effort to move sustainability of the programmes. In the coming year we work purposefully especially among the poor women and children (to build the future generation). We also diversify our work on environment with a focus on development with conservation.

I am very happy to mention here Hon'ble Governor of West Bengal, Shri Jagdeep Dhankar attended the concluding function of our annual festival on February 13th 2021. He visited our school campus and interacted with the students, teachers, village self-help group members and our staff. We felt proud to have him in our campus.

We are thankful to our donors, supporters from abroad (IGF-DK, UBU, Holdor Topsoe Foundation, JDB) and also many organizations and individuals for supporting us during the relief and rebuilding work due to double tragedy faced by poor in coastal Sundarbans. I also extend heart full thanks and appreciation to my colleagues in the organization who worked tirelessly during this difficult year. I am also grateful to the local community and village committee members for their support to the organization.



About the Organisation

Name of the organisation Joygopalpur Gram Vikash Kendra (JGVK)
Address and contact person Mr. Biswajit Mahakur, Secretary
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P.S. : Basanti
District : South 24 Parganas
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Vision

To secure basic livelihood and equal rights for all and sustainable development in the social, economic and environmental context.

Mission

To improve the quality of life of the poor and marginalized, by enhancing food and social security, through an empowered Civil Society in West Bengal and Odisha.

In practical terms, the six elements of this mission are:-

1. Sustainable use/consumption and management of local natural resources.
2. Food security through promotion and practice of organic farming and use of nature-friendly technology.
3. Secure livelihood opportunities through access to and use of new skills.
4. Assured access to quality education, protected water supply, adequate health services, drainage and sanitation.
5. Develop strong village institutions whereby the entire community is involved in the planning, implementation, and monitoring of development work.
6. Community based research on preparedness for disaster response and climate change.

List of Governing Board members, 2020-21

1. Harekrishna Bharati, President, Local Businessman
2. Biswajit Mahakur, Secretary, School Teacher
3. Dilip Sardar, Treasurer, Social Worker
4. Saraswati Sardar, Member, SHG Leader
5. Jhuthika Adhikari, Member, Bermajoor Janakalyan Kendra, Sandeshkhali-I
6. Monika Sarkar, Member, Trainer, "World Vision" and "Pranibandhu", Member, Field Co-ordinator, Word Vision, Jharkhali
7. Bhabani Roychowdhury, Member, Health Worker



Section One: Animal Husbandry Programme

History and background: During 2001 JGVK organize a systematic dialogue with local community, well-wishers and supporters and individuals including scientist and academia based at Kolkata known to Biswajit Mahakur. Based on this discussion following programmatic direction emerged. This includes to mobilize and organize the local poor women into groups. Help them to analyze their present situation, reality and its causes.

During the discussion it was noticed that almost every household maintain some domestic animals. However, maintenance and management of these animals are very poor. Therefore, returns from these animals are also less. Based on the need and interest shown by the women, JGVK decided to start training and support to these woman on

improved scientific management of animal, rearing especially small poultry birds, ducks.

This support also increase the production thereby possibility of increase income and increase nutritional intake among the family members. Accordingly a project intervention planned and developed in collaboration with Indian Group Funen, Denmark (IGF-DK), along with technical scientific and financial support. This project continued till 2010 (2003-2010). This project paves the process for animal rearing in the area.

Important Activities during the year: Due to various restrictions during the year, activities mainly concentrated at the farm level. This includes the following.

1. Procurement of new varieties of animals.
2. Install a locally made machine in the farm for production of chicks from eggs.
3. Supply of good quality chicks among the local women.
4. Increasing number of animals in the farm, cow, pigs, poultry birds, ducks etc. sale of animal products produced in the farm.



During the year increasing amount of sale proceeds also noticed. The details are provided in the table below.

Table No.-1: The month-wise sale of animal products from the farm

Sl. No.	Month	Amount (in Rs.)
1	April 2020	-
2	May	9320.00
3	Jun	17580.00
4	July	906.00
5	August	1994.00
6	September	-
7	October	10171.00
8	November	3270.00
9	December	28545.00
10	January 2021	17265.00
11	February	5499.00
12	March	1500.00
	Total	96050.00



Graph showing month-wise sale of animal products from the Farm



Challenges faced: During the year following problems were faced.

- Extension work affected.
- Systematic trainings not organized
- Regular collaboration with Animal Resource Department on the distribution of poultry birds not organized
- Due to cyclone large number of animals died
- Cyclone also damage the farm

Section Two: Sustainable Agriculture Programme

Genesis and Background: While working with the poor women, and also men folk, JGVK also held discussions with men who are primarily engaged in land based activities. It was noticed that the region is primarily mono-cropped area (paddy). Due to invasion of salty water in the field crop damage/failure is a regular feature. Regular floods affect the productivity. Thus, production was meager. The production from the field was not able to sustain more than 3-4 months. Due to lack of other alternative employment opportunities, large number of people from the area forced to migrate to other parts of the state and other states for employment.

International workshop: JGVK in collaboration with IGF, Denmark organized a 15 day long workshop involving scientists, academicians, civil society organizations and local farmers. After thorough discussion, inputs JGVK decided to set-up a model farm for experiment,

Demonstration and extension farm for alternative / innovative sustainable farming. This includes production of organic products use in the cultivation, introduction of new crops, new methods of multiple cropping etc.

Activities during the year:

1. Different types of vegetables were grown during the year. Sapling especially of fruit trees also developed in the farm and distributed among the villagers. Cyclone **Amphan** damage and also destroy the large number of fruit bearing trees in the villages. This was also a part of reconstruction work among the cyclone affected people.
2. Support and guidance to the farmers continued through SWRM project.
3. With technical and scientific support from the Botany Department of Calcutta University started, an algae production unit. This algae is being use by the local farmers for farming as manure.
4. New experiment and production of fertilizer, pesticides also organized in the farm.
5. During the year two field based experiments continued. These are :- (i) Cultivation of indigenous varieties of paddy in the farmer's land (varieties includes Kanak Champa, Dudher Sar etc.). Eight farmers were involved in one bigha of land (thus total 8 bigha of land). After harvest the paddy seeds also distributed among the other farmers to spread the cultivation of same varieties of paddy and also deposit to the community seed bank at JGVK (ii) Also develop a community seed bank of indigenous vegetable and paddy seeds in a community seed bank based at JGVK farm. The above experiments are being supported by State Biodiversity Board.
6. In collaboration with Netaji Open University one year diploma course on organic farming and horticulture was conducted. 23 students successfully attended and completed the course. During the year mostly on line classes was held.



Sale proceeds from the farm produce: The month-wise details are provided in the table below.

Table No.-2: Month-wise details of sale

Sl. No.	Month	Amount (in Rs.)
1	April 2020	
2	May	12232.00
3	June	3448.00
4	July	40,900.00
5	August	19,499.00
6	September	17,110.00
7	October	8827.00
8	November	2450.00
9	December	3636.00
10	January 2021	8600.00
11	February	6054.00
12	March	1711.00
	Total	1,24,467.00

Problems faced: Cyclone, Amphan severely damaged the two poly houses. The cyclone also badly damaged the standing crops in the firm due to water logging. This also affected the vegetables. However, with active involvement of staff of the organization recover and restore the farm.



Section Three: Fishery Programme- productive use of pond water

Objective of the programme: (1) To provide good quality fish spawn from the hatchery of the organization (2) Cultivate good quality finger lings in the farm ponds and supply these to the local farmers (3) To train, guide and support the local farmers for better management of pond and fish production (4) Commercial production of fish in the JGVK ponds.

Activities during the year: The important activities during the year are as follows:-

- 1) Production of fish spawn continued during the year. The details of production, sale to the local farmers and own consumption in the nursery ponds are provides in the table below:-

Table No.-3: Production details of fish spawn from the hatchery

Sl. No.	Date of Hatching	Total Production (Bati)	Sale Quantity (Bati)	Own consumption
1	02.05.20	22	22	0
2	09.05.20	45	30	15
3	17.05.20	48	28	20
4	19.05.20	50	32	18
5	05.06.20	40	32	8
6	07.06.20	55	55	0
7	09.06.20	50	22	28
8	19.06.20	38	20	18
9	03.07.20	40	2	38
	Total	388	243	145
			243 Bati @ Rs.500/- =121500	

Note : Production in Bati

- 2) Though no training was organized during the year, however guidance provided to the fish farmers on the pond preparation, management of fish growth and response to the farmers questions through mobile phones and visits to the pond sites.
- 3) Production and sale amount of fingerlings and grown up fish. Though severe cyclone partly damages the ponds, the estimated sale amounts of produce are provided in the table below.



Graph Showing total production and sale of fish sprawn from the Hatchery

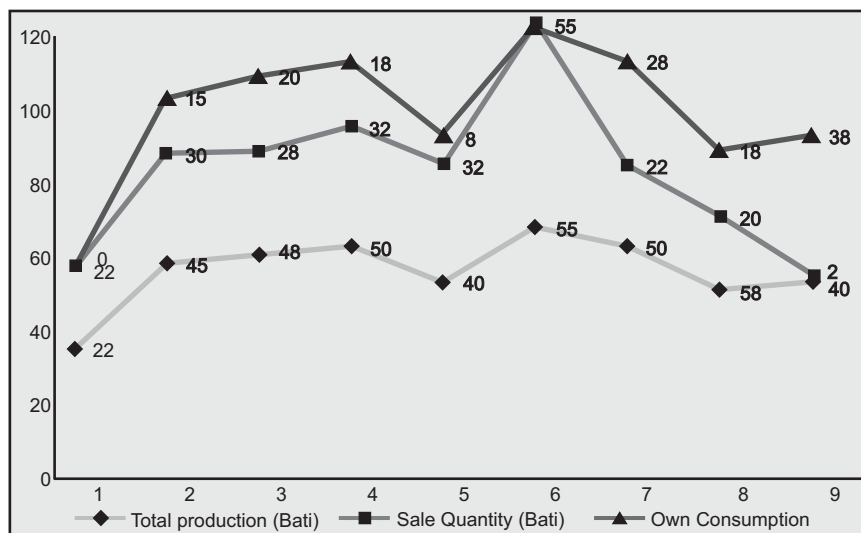


Table No.-4: Quantity and amount of sale of fishery products from the JGVK hatchery and ponds

Sl. No.	Date	Fish quantity	Total value (in Rs.)
1	27.07.20	12Kg	3600.00
2	03.08.20	19 Kg	5600.00
3	11.08.20	61 KG	17800.00
	Total Fingerlings	92 Kg	27,000.00

Graph Showing amount of sale of Fishery Product

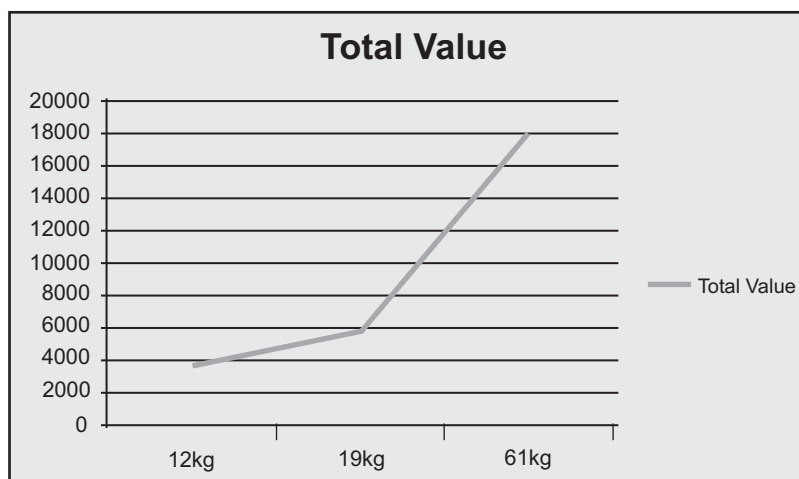


Table No.-5: Quantity and sale amount of grown-up fishes from JGVK ponds

Sl. No.	Fish quantity	Total value (in Rs.)
1	498 kg	60949.00
2	719 kg	93590.00
	Total	154539.00

- 4) New variety of fishes also grown in the ponds, few others are in the experimental stages.
- 5) One important work JGVK is doing since last 14 years is conservation of small local traditional fishes. In this direction JGVK developed few ponds in the villages for conservation of these fishes. Visible change and future direction.
 - Increasing experimentation and production of new varieties of fishes.
 - Increasing quantity of sale which contributes to the financial sustainability of the programme.
 - Production of different new varieties of fish spawn from the hatchery and supply the same among the local farmers as well.



Section Four: Education Programme

Background and objectives: During 2003-04 when JGVK Volunteers and staff working with the local community especially among the woman, JGVK realized the need for providing good quality pre-primary and primary education among the local children. Objective was to reduce dropouts in the local primary schools and develop habit of going to the learning centre thereby grow interest in education. The education centre located at Joygopalpur near the present campus gradually developed as primary school.

The school named Vivekananda Siksha Niketan. First batch of students appeared Class-X board examination (Madhyamik examination) in

2017. The main objective of this school is to provide inclusive, quality education among the local poor children and develop them as a productive citizen.

Activities of the year: Though classes and school functioning was affected due to pandemic related restrictions, the teaching and learning process in the school was continued through online and offline mode. some of the activities are given below.



1) Students strength in Vivenkananda Shiksha Niketan (VSN)
Table No.-6 : Class-wise student details (2020-21)

2020 (April)

CLASS	BOYS	GIRLS	TOTAL
Primary			
KG	15	12	27
KG	20	21	41
UKG	30	21	51
I	26	26	52
II	28	19	47
III	27	14	41
IV	17	13	30
TOTAL	163	126	289
Secondary			
V	26	31	47
VI	22	13	35
VII	24	15	39
VIII	18	15	33
IX	06	11	17
X	10	07	17
TOTAL	106	92	198
Total Primary + Secondary	487		

2021 (March)

CLASS	BOYS	GIRLS	TOTAL
Primary			
KG	8	1	9
KG	25	12	37
UKG	16	15	31
I	35	13	48
II	24	22	46
III	16	24	40
IV	29	10	39
TOTAL	153	97	250
Secondary			
V	36	15	51
VI	22	24	46
VII	26	11	37
VIII	25	14	39
IX	17	15	32
X	4	10	14
TOTAL	130	89	219
Total Primary + Secondary	469		

Note: It is important to note here that the enrollment in two years remain almost same even in the pandemic situation in 2021. At the beginning of the 2021, total 70 students (Boys = 47, Girls = 23) including old and new were in the hostel.

2) Approach in academic session

(i) Covid precautionary measures in the school:

Special classes for Class IX & X students were held twice in a week from December 2020. Shorter version of Annual Examination was conducted in December 2020. All these was done through maintaining Covid protocol measures like sitting in distance, compulsory wearing of masks, regular use of sanitizer and daily sanitization of school building and campus.

(ii) Teachers kept contacts: Regular contact established and maintained with the students and their parents about their well being and also their studies and provide guidance accordingly.

(iii) On Line classes: on line classes started for IX, X students from last week of April 2020. Gradually V to VIII classes were included from August and continued till end of 2020. Primary section students were given weekly home work sheet and returned back to the students after checking by the teachers. This process was started from August 2020 and gradually covers majority of the students.



3) Different programmes, celebrations, orientation organized for teachers and students

(i) Observation of days of national importance, annual programme

(ii) Orientation, trainings for teachers:

- One day orientation programme was organized on 24th August, 2020 “Covid disease, its prevention, epidemiology and precautionary measures” was conducted for students of higher classes and teachers by resource person Dr. Swapan Jana, Demonstrator, Pharmacology, National Medical College, Kolkata and Member, society for social Pharmacology.
- One day orientation for students of higher classes and teachers on snake bite, identification of poisonous and non- poisonous snakes', early referral of snake bite cases to hospitals.



(iii) Special programme for students on interest development for science & technology:

- a). For effective way of conducting science class in the school, 15 Microscopes were donated by one Professor from Kolkata.

4) Students appeared and passed out Madhyamik (Class X Board) Examination in 2020

All 18 students appeared for Madhyamik examination held in February 2020 and passed out successfully. Out of 18 students, 12 secured 1st. Division (60%+ marks), 5 students 2nd. Division (45%+ marks) and 1 secured 3rd. Division marks. 2 students secured “Star” (75%+).

5) Amphan, Covid relief support materials distributed

- i. Food commodities to 317 poor students, whose family was in miserable condition after the devastating Amphan cyclone and also family member/s, lose their earning due to Covid.
- ii. Due to Amphan, some houses collapsed totally and the children's educational materials were also lost. So, 26 students were given educational materials received as donation from Professors Association, Dept. of Botany, Calcutta University.

Safe education and environment

This is a sub activities of education programme. This innovative insurance programmatic intervention was started from 2009-10. In this programme Students from Class VI to X save a monthly amount of Rs. 8 to Rs 16 and also the equal amount contribute by the organization. The entire amount kept regularly deposited in the bank under the name of each student. After completion of Class X Board examination, the entire amount with interest handed over to the respective students. In addition to the above, the students were regularly involved in various environment related discussion, debate, games and also participate in plantation, conservation, protection of local environment and bio diversity. JGVK coordinating these entire activity. However, the programme was affected due to pandemic related situation in 2020-21. At present five schools are involved in this programme. The details of insurance programme are given below.

Table No.7: School-wise membership of student and amount saved and contributed.

Sl.No.	Name of the school	# of Boys	# of girls	Total Students savings	Total JGVKs share	Total
1	VIVEKANANDA SHIKSHA NIKETAN	64	80	2808	8784	11,592
2	SUNDARBAN ADARSHA BIDYANIKETAN	67	61	19560	15360	34,920
3	MASJIDBATI HIGH SCHOOL	44	54	14520	11760	26,280
4	NAFARGUNJ HIGH SCHOOL	32	34	9840	7920	13,680
5	KALIDAS HIGH SCHOOL	6	51	8940	6840	15,780

Vocational Education

Classes were held for hostel students which are as follows:

- (a) Vegetable cultivation in Kitchen Garden - seven different vegetables and two leafy vegetables were cultivated by the students in four different plots inside the campus. The students learned the process of cultivation according to the soil type of the plots, weeding and use of organic manure, branching. The leafy vegetables were harvested twice from the garden and consumed by the students and residential staff.
- (b) Plant grafting technique - grafting of three different fruit trees in fifty points made and all came out successfully.



1. **NILKANTA SISHU SHIKSHA NIKETAN, BERMAJUR (SANDESHKHALI 1, NORTH 24 PARGANAS)**

- Students enrolled in 2020 was 150 and 9 teachers are working.
- Students enrolled in 2021 was 191

2. **SATYANARAYANPUR VIVEKANANDA BIDYABHABAN, AMLAMETHI (BALI GP, GOSABA BLOCK, SOUTH 24 PARGANAS)**

Students enrolled in 2020 was 60 and 7 teachers are working

Student enrolled in 2021 was 103

For the two schools:

- During pandemic situation Teachers from both the schools prepared syllabus for the students and



Section Five: Cottage Industry Programme



The Objective: (1) to train poor women to acquire skills on different home based products like garments, woolen products etc. (2) To produce quality products (3) to export the products and (4) to earn through sale of products.

During the year following activities were organized:

1. Production of garments of products produced with numbers are provided below:

Table No.-8: Details of garments product including woolen garments

Sl. No	Item name	Quantity (in pcs.)
1	Mask	1697
2	Bag	944
3	Mobile bag	76
4	Kantha bag	76
5	Blouse	59
6	Punjabi	227
7	School shirt	60
8	School pant	78
9	Kurti	60
10	Pillow cover	126
11	Bed cover	66
12	Frock	43
13	Patiyala	40
14	Leggings	11
15	Woolen sweater	18
19	Baby set	15
20	V-Sando	3
21	Jacket	10
22	Woolen Blouse	49
23	High neck sweater	3
24	Hat	17



2. Export: During the year some of the items specially produced for export to Denmark and USA. The item-wise details are given below:-

Table No.-9: Export of JGVK produced garments

Sl. No	Item name	Quantity (in pcs.)
1	Shirt	6
2	Mask	200
3	Bag	82
4	Shock	45 pair
5	Sweater	7
6	Shoe	5 pair
7	Gloves	6 pair
8	Wapash	104



- Trainings:** Twelve poor women and grown-up girls attended three month long training on various aspects of tailoring. One woman also train on woolen products. After training she was absorbed in the production unit.
- Basundhara Udyog:** This sub-unit produces spices and pupped rice. These products were sold to the local market including local wholesale markets.
- Marketing of products:** JGVK sold these produce through its two sale centre located at Natun Hat (New market) and at Joygopalpur. The details of annual sale proceeds are provided below.

Table No.-10: Sale amount

Sl. No	Sale centre	Amount of Sale (in Rs.)
1	Natunhat shop	1,90,213.00
2	Samity shop	2,83,782.00
3	Basundhara Udyog – Spices Pupped rice	82,374.00 38,580.00
	Total	5,94,949.00

- Khadi unit:** With support and collaboration with KVIC, West Bengal one Khadi Spinning unit was inaugurated on January 27th, 2020. After training of 25 poor local women on semi-mechanized charkha spinning they started production. The KVIC provides the cotton and collect the product from the unit at Joygopalpur. At present 19 women are working and on average they are earning Rs.3500/- per month.



Future direction:

- Concentrate on more production marketing and export to make the programme sustainable.
- Organize more trainings on new skills of tailoring and garment making. Also organize trainings unit at the village level as well.

Section Six: Health Programme

Background: While working with village women on Animal Husbandry Programme, JGVK realized the need for work on women and children on health. The various health indicators including mortality of mothers and children was high, home delivery by mostly untrained Dais, low immunization coverage, lack of guidance to the pregnant women, new born mothers and child etc. Therefore, JGVK decided to start mothers and child care programme. Along with this also started an OPD clinic at JGVK campus from 2007-08. In addition to above one of the important purpose also to develop trained women on health issues and work with the women (target group). During the last five years the emphasis was on the combating malnutrition among the children (CMC) along with other activities. As a strategic approach also work with government health infrastructure at the G.P. level (sub-centre,

health centre and block hospitals), ICDS centres, gram panchayats etc.

Activities during the year 2020-21: The year has seen a setback in the normal life of everyone, in the country and abroad due to pandemic. Sundarban was also affected by cyclone “Amphan” on May 20th, 2020.

From middle of March'2020 due to Covid pandemic, project field activities stopped completely as per the government order. Children's vaccination camps were also stopped for two months i.e April and May and restarted from June in non-camp mode. Four days in a week fixed numbers of Children (15-20) were vaccinated. This continued till October 2020.

The field health workers worked to address the issue of Covid and Amphan humanitarian assistance activities along with other staff and volunteers of JGVK. The brief of the activities are:

I. Covid activities

- 1) Home visit to the families with children and members returned home from work outside West Bengal
- 2) Recording of any fever cases in the family and intimate the ANMs, Panchayat immediately
- 3) Follow up of acute cases and immediately suggest referral through ANM, Panchayat
- 4) Providing door-to-door information of the Covid disease
- 5) Assisting Covid Positive cases to transfer to the local isolation center, safe home initiated by the Panchayat at flood shelter, school building
- 6) Assisting ANMs, ASHA to distribute medicines for fever cases and follow up of them
- 7) 63 Anganwari Centers were sanitized during 2020 and early 2021 under field workers supervision.



II. Amphan relief and re-building activities

- 1) Listing of houses damaged due to cyclone Amphan and reporting to JGVK
- 2) Distribution of relief materials (dry food commodities, shelter, water containers, children's education materials) to the effected families with other workers
- 3) Prepare distribution report
- 4) Visiting the affected houses, families taken shelter at some safer places
- 5) Covid Sensitization at the relief camps



III. Other activities

- 1) Listing of the migratory labourers details
- 2) Distribution of dry ration to the returned migrant workers family through JGVK
- 3) 119 people (male and female) above 30 years were screened for Non-communicable disease risk factor and necessary guidance provided to them by the OPD doctor.
- 4) After the cyclone hit the areas, snake bite was rampant. Hence, one day training on management of snake bite, identification of venomous and non-venomous snake was organized.

IV. Health Center (OPD) activities

TOTAL NO OF CLINIC PATIENTS				PATHOLOGICAL LABORATORY		X RAY		E C G	
General Patient	Child	Eye	Gye	No of tests	Amount	No of x-ray	Amount	No of cases	Amount
107	8	7	2	481	74,536	47	7,430	11	1,450

Note: Eye specialist, Child specialist, Gynecologist are attending OPD once in fortnight from March 2021.



Section Seven: Sustainable Water Resource Management Project (SWRMP)

Background: In the last 15 years (2006 onwards) the organization is working on water issue. The activities includes quality check-up of drinking water, various ways to save drinking water, maintenance of personal hygiene related to habits of water use. Examination of arsenic content in drinking water through different innovative process by the village community in Ghaighata block of North 24 Parganas district. Local villagers especially women in groups were trained in using sophisticated instrument to measure the bacteria content in the drinking water.

From 2014 the emphasis also placed on the community based preparedness which includes participatory planning, community managed disaster in coastal areas of Sundarbans. In addition, other activities related to water was continued.

The present project: The present sustainable Water Resource Management was started in October'2018 and to continue for three years. This project was developed in collaboration with Danish Technical University, Denmark and supported by UBU, a Danish Civil Society Organization of scientists researchers and students.

The major objectives of the project: (1) sensitization on the problem of water crisis and climate change in the coastal areas of Sundarbans. The target group includes farmers, women SHG members, students (2) work with groups of progressive farmers to start and continue for innovative practices of sustainable use of water in farming. Regular training and on-site guidance and support to these farmers (3) study, research and documentation (on the problems of water crisis and climate change) of the findings and use the documents in sensitization of villagers and training of farmers in groups, women SHG members and students.

The project area: The project covers two districts, six blocks, 12 Gram Panchayats and 59 villages. The table below provides the details.



Table No.-11: Coverage of SWRM Project

Sl. No.	District	Block	Gram Panchayat
1	South 24 Parganas	Basanti	5 (Jharkhali, Jyotishpur, Nafargunj, Majidbati, Uttar Mokamberia)
2	South 24 Parganas	Gosaba	3 (C.M. Khali, Sambhunagar, Dipradaspur)
3	South 24	Kultoli	1 (Baikunthapur)
4	North 24	Gaighata	1 (Gajna)
5	North 24	Hingal	1 (Govindakathi)
6	North 24	Sandeshk	1 (Bermajur II)
Total	2	6	12

Important activities during the year:

1. Work with 139 progressive farmers to work with new and innovative technology of sustainable farming.
2. Sensitization of 26000 women group members (SHG members), and new farmers on the use and need for conservation and sustainable use of rain water, surface water and underground water.
3. Introduce and expansion of SRI method in paddy cultivation. Also introduced pulses, banana, potato, maize etc. all these crops require less amount of water and grow with moisture content in the soil (pulses), muddy soil(potato).
4. Survey the fragile river embankment and planted over 20,000 various mangrove saplings along the inside of the bundh. In addition, 990 fruit bearing saplings were also distributed.
5. Regular data was collected on the change of water levels during high tide and low tides from four locations. Change of underground water level of 23 tube wells in the project area and regular rain water measurements from four locations. There are visible increases in river water, decrease of underground water. Rainfall data suggests high intensity of rainfall in short duration at time resulting floods, crop damage as well as long spell of dry period.
6. Influencing gram panchayats - regular interaction was organized on the sharing of project work and on the implementation of legal provision of restricted use of underground water. Regular discussion also held with the Agriculture Department. The department provides supports in the form of inputs and new technologies and methods of low water use in the farming.

Dialogue also organized with the officials of electricity department on imposition of restriction of the electricity, supply and illegal use of electricity by the shallow users.

Visible change: The change includes the following:

- Farmers are accepting the SRI method of paddy cultivation
- 40% users were stopped using shallow pump
- On average 40% tubewells are drying up during summer period
- Wastage of drinking water drastically reduced



Section Eight: JGVK – JDB Collaboration

In January 2020, four programmatic interventions were planned.

These are as follows:

- (1) **Third women community school** to organise at Baganpara hamlet of Hironmoypur Village.
- (2) **Student scholarship (sponsorship) programme** to continue with all existing students and find new students to be included.
- (3) **Small entrepreneurship programme** to continue with revolving fund.
- (4) **Bee-keeping programme:** Based on the experiments and demonstration in the JGVK farm, the programme to extend in the garden of poor farmers.

However, like in other parts of the world, the dark shadow of COVID-19 virus also spread in our country from early March. From middle of

March all the schools, colleges and universities were closed. On 22nd March countrywide lockdown was observed. From March 25th country-wide lockdown was imposed. The full lockdown in the entire country continues till May 31st, partial lockdown was continued till August-September'2020. All educational institutions were closed. Markets, all modes of transport, factories were closed for 2-3 months.

Impact in the coastal Sundarban: Large numbers of local poor who are dependent on daily labour around the villages and Kolkata and nearby urban centres were badly affected.

Due to closure of transport services (mainly they travel through train) and closure of all establishments they became jobless. Those people who normally migrate to other states after winter harvest also forced to stay in their home. At the same time large number of local people who usually stay in other places for work, due to lockdown they also returned home without job and money.

Suddenly on May 20th super cyclone '**Amphan**' hit the Sundarban coast with 180-200 km wind speed per hour. The impact of cyclone was a double tragedy to the local people. Large numbers of kutcha/mud houses were destroyed/damaged, vegetable gardens, fruit trees, standing crops in the land were destroyed. Rescue and relief work was difficult due to large number of uprooted trees blocked the road.

Efforts of JGVK: (1) As per government instruction closed the school and sent back the hostel students to their respective homes except few students whose parents are not in a position to take them.

- (2) Sent food ration (rice, pulses, potato etc.) and some cash to the JDB fellows and other needy students.
- (3) Started reaching of students including JDB fellows through mobile, smart phones.
- (4) Bring back students to the hostel in early June when complete lockdown was lifted and started regular coaching to them.
- (5) Started classes for Class-IX-X students due to persistent demand from the parents.
- (6) Identified poor, deprived families who require immediate support for food and cash and provided the same to them through JDB support and also support from other sources.



Brief description of the activities during the year

1. **Women community school:** Two successful school held in Adivasipara (Joygopalpur Village) and Biswaspara (Hironmoypur Village) during 2018 and 2019. This year similar school was planned in Baganpara of Hironmoypur Village. However, due to COVID-19 pandemic and restrictions imposed on the assembly of people, after consultation with the participants the organization decided to postpone the school till May'2021.
2. **Student sponsorship programme:** During the year total 19 students were supported.

All the students will also cover under the student sponsorship programme during 2021

Four of the fellows, Babita Mondal, Latika Mondal, Mita Roy and Pabitra Mondal who are in Jyotgishpur High School were promoted to class XII. They will appear class XII board examination in June'2021. Four students, Shreya Maity, Priti Mukherjee, Debabrata Mondal, Avimanyu Mondal passed in their Class X Board examination and admitted in Sundarban Adarsha Vidyalaya (School). They attended on-line classes till early February. From February 12th 2021, normal classes started for only class IX to XII. Other JDB fellows especially those who will appear class X board examination in early June'2021 are attending regular classes, tuition.

3. **Small Entrepreneurship support programme:** During the year three new applicants were selected and supported.
4. **Bee-Keeping:** The six bee-boxes installed in JGVK farm for experiment and demonstration to the local poor women and men were destroyed during **Amphan**. JGVK will re-install these bee-boxes during 2021.

Special support from JDB for the affected people due to lockdown and Amphan Cyclone:

- (1) **Support to affected people due to lockdown:** Based on survey of nearly 2200 families spread over 18 villages by the respective village committees, 57 very needy households were supported. The village-wise break-up are as follows:

Village	Supported families
Jyotishpur	8
Jharkhali	10
Masjidbati	10
Nafargaunj	10
Bharatgarh	10
Mokamberia (North)	10
Total	57



Each of the above beneficiaries house-hold provided with 10 fruits saplings. 45 beneficiaries provided with 20 poultry birds each, 2 beneficiaries provided goat and 10 beneficiaries provided with 20 ducks each.

- (2) **Support to Amphan effected people:** detail support to the affected families are as follows :
 - (i) Food packets provided to 167 households. Each packet containing biscuit, toilet soap, potato (2 kgs.), pulses (2 kgs.), soyabean (500 gm), mustared oil (1 Ltr.), rice (4 kgs.), onion (2 kgs.). Total cost estimated to be Rs.581/- per packet.
 - (ii) 10 Fruit sapling provided to 55 families.
 - (iii) Goat to 6 families
 - (iv) Duck to 3 families (20 each)
 - (v) Fruits sapling (10 each) to 50 local students

In addition to above large quantity of mask and sanitizer provided to all the targeted households.

Section Nine: Other important activities

1. Relief, rehabilitation and rebuilding work: Almost entire year was spent on relief of affected local population due to lockdown and then people affected by severe Cyclone **Amphan** which hit the Sundarban on May 20th, 2020. Along with other activities staff and volunteers of JGVK were engaged in identify the affected families, organize relief materials, invite them in JGVK campus to collect the relief materials which contains different food items and other essential items. JGVK mobilized these through generous support and contributions, donation from local people, friends and well wishers of JGVK from various places including abroad and through JGVK's own fund and also contributions of JGVK staff. This relief work was followed by rehabilitation and rebuilding work among the affected families. These includes supply of saplings of fruit trees and other trees, vegetable seeds, fish spawn, small poultry birds (chicks) and ducklings etc. About 3500 households were assisted by relief work. Nearly 1200 household were assisted with materials as part of rebuilding work especially among the cyclone affected villagers.

2. **Annual festival three day festival (Mela)** was held during February 11th-13th, 2021. The activities include discussion on education, sports, exhibition of JGVK products, exhibition by the students of Vivekananda Siksha Niketan and Cultural Programme in the evening. The Honorable Governor of West Bengal attended the concluding programme and closely interacted with the students, teachers and women members of SHG's on February 13'2021.
3. **Construction work of Holdor Topsoe Education and Tourism centre started.** The centre aims to function as an education and learning centre for students, researchers, teachers and also social workers. They will visit the organization and observe, understand the innovative works which are being practiced at JGVK campus.
4. **Three project proposals developed:** These proposal includes : (i) setting-up of Bio-Diversity Conservation and Education Park (ii) Agriculture with a focus on formation and functioning of farmers producers groups, advocacy and strengthen dykes and embankments in selected areas of coastal Sundarbans and (iii) Work with 100 families of widows whose husbands died in the forest due to attack by the tigers. The focus will be on organize them into groups, assisting them in economic rehabilitation of these families and proper education for their children.



Section Ten: Future Direction and Priorities



1. Emphasis economic sustainability of programmes through efficient human resource and innovative technologies.
2. Planning, preparation, functioning of education and tourism centre.
3. Start higher secondary class with science stream.
4. Functioning of our OPD "Arogya Sutra" a fully sustainable, high quality medical centre in the region. The centre will have all modern equipments and facilities.
5. Expand/develop function and working relationship with academic institutions, research centers, networks and government bodies and departments.
6. Planned and organize skilled development trainings for local Youth related to employment opportunities/self employment.



Summary of account

CONSOLIDATED INCOME & EXPENDITURE ACCOUNT : 1 st APRIL 2020 - 31 st MARCH 2021

EXPENDITURE	Rs.	INCOME	RS.
Cost of Running Diff. Programmes	33,27,318	Cost recovery from diff. Programmes	34,32,937
General Expenses	9,31,667	Donations,Subscriptions	11,03,120
Repairs & Maintanance	42,649	Other Income	30,081
Social/Cultural Expenses	1,08,139	Other Receipts	2,45,559
Depreciation on Assets	2,85,519	Depreciations trf, To Property Funds	2,85,519
Excess of Income over Expenses	4,99,435	Bank Interest & Service Charges	96,181
Expenses : FC Projects		Grant-in-Aid:FC Projects:	
Education	1,61,46,824	Education	1,79,23,331
Health	47,72,383	Health	46,48,047
SWRM	42,45,497	SWRM	40,89,908
Agriculture	5,68,102	Agriculture	2,00,000
Help for Children & Family in Sundarban	4,632	Help for Children & Family in Sundarban	12,46,000
Joy du Bengalle	6,05,934	Joy du Bengalle	7,43,523
Covid-19 & Amphan	16,97,659	Covid-19 & Amphan	19,29,780
Student Sponsorship Programme	1,00,024	Student Sponsorship Programme	71,345
X Ray Machine	24,300	Sevenborg Gymnasiam	5,11,484
Sevenborg Gymnasiam	5,11,484	Transport Cost of Skill Devt. Instrument	4,30,144
Transport Cost of Skill Devt. Instrument	3,00,000	Home Industry	5,46,633
Home Industry	3,27,416	Others	81,458
Others	1,64,866		
Total	3,46,63,848	Total	3,76,15,050
		Unutilized Balance : Add Prev.Year	51,99,961
		Less: This Year	83,96,660
		Total	3,44,18,351
		Bank Interest	2,45,497
Deprecciations on Asses	18,59,351	Depreciation trf. To Property Funds	18,59,351
Total	3,65,23,199	Total	3,65,23,199

CONSOLIDATED BALANCE SHEET : AS ON 31 st MARCH 2021

LIABILITIES	Rs.	ASSETS	Rs.
General Fund	40,44,054	Fixed Assets : NFC	65,35,932
Properties Fund : NFC	65,35,932	FC	6,23,94,457
FC	6,23,94,457		
Revolving Fund		TDS & other Receivable	1,27,626
Small Entrepreneurs Devt. Prog.	8,66,833		
Education- VSN Fund	18,21,222		
TCH & Sanitation Fund	6,82,131		
Unutilized Grant : FC	83,96,659	Fixed Deposits	46,61,038
Expenses Payble	30,000	Cash & Bank Cl. Balance : NFC	27,37,575
		FC -	83,14,660
Total	8,47,71,288	Total	8,47,71,288

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