



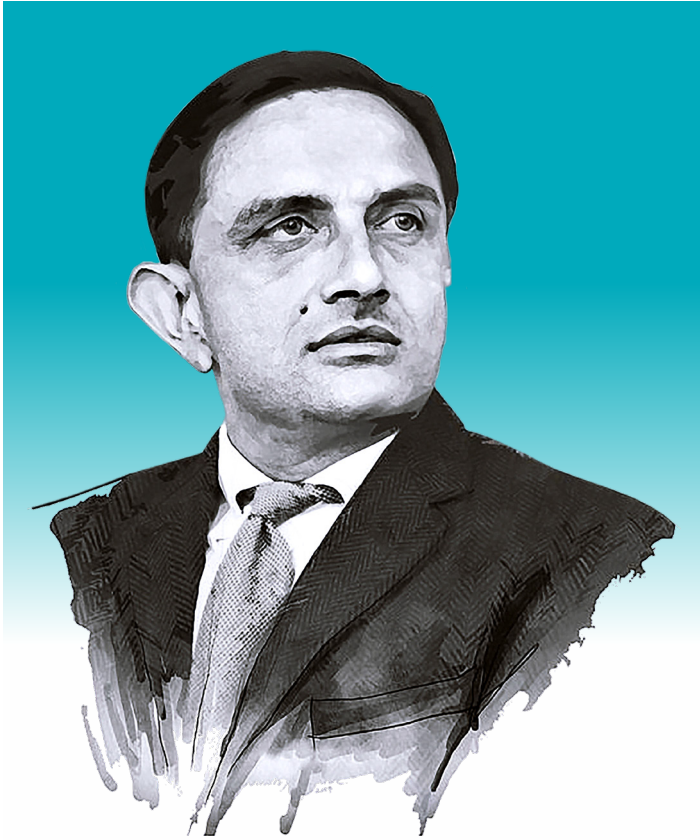
Towards a Sustainable Future



VIKSAT

Vikram Sarabhai Centre for Development Interaction

Our Founder and Mission



Mission

VIKSAT aims at proactively promoting and strengthening Peoples' Institutions (PIs) through interaction between Government, Non-Government Organizations and the people by the means of active participation of men and women from all sections of the community, for equitable and gender-sensitive, sustainable development, and management of natural resources.

Dr. Vikram Sarabhai was a great scientist, who dedicated his life to nation-building. He established several institutions of eminence, working in a wide range of areas. He fathered India's Space Program, contributed to the development of India's atomic energy program, and seeded the Electronics development in India. He was honored with Padma Bhushan in 1966 and Padma Vibhushan in 1972.

In 1966, Dr. Sarabhai founded Nehru Foundation for Development (NFD), a charitable trust dedicated to rural development and environmental awareness. Its main aim was to promote basic studying and thinking on current problems of development at an individual and social level. Vikram Sarabhai Centre for Development Interactions (VIKSAT), was set up in the year 1977 as an activity of NFD. VIKSAT is taking proactive steps in conserving the environment and promoting sustainable development by endorsing People's Institutions and interactions among them. VIKSAT has provided a forum for interaction among individuals and organizations involved in efforts towards addressing the environment and natural resource development related issues in the state of Gujarat and at national level.

VIKSAT's pivotal objective has been to strengthen the implementation of activities that can improve the environment. Since its early stage, of involvement with the directions set by the founder, VIKSAT strives to meet its purpose - to promote interactions between individuals and organizations for environmental protection, and endeavor to build Peoples' Institutions (PI) for sustainable development and management of natural resources.

VIKSAT Activities supporting SDGs

(Last two decades)

Improved Agriculture



- 317035 Farmers adopted Improved Agriculture Practices
- 1074 Fruit Orchard (Wadis) Developed
- 8292 HHs under High Value Crop cultivation
- 12 High- Tech poly house nurseries established
- 10119 HHs Produce Hybrid and Certify Seed

Water Resources Management



- 1925 HHs accessed irrigation in 1724 Acre through 93 Lift Irrigation Schemes
- 1675 HHs accessed irrigation in 1664 Acre through 438 Well renovation and pump
- 654 HHs accessed irrigation in 1146 Acre through 95 check dam and pond covering
- 483.51 Acre area covered through 333 Drip installation covering 576 HHs

Livestock & small Ruminant Development



- 10 Dairy promoted and their facilities improved
- 1339 milch animals provided to individual farmers
- 811 HHs adapted vermi compost for enhances soil fertility and moisture
- 2 Sirohi Goat Farm (4 Buck + 16 Goat) established for breed improvement
- 120 Sirohi buck provided to individual entrepreneur for breed improvement
- 2210 HH provided Health vet care services-goat by Pashu Sakhi

Drinking Water and Sanitation



- 130 villages covered under drinking water schemes
- 32 primary school facilities improved in WaSH, Education and RWHS related activities
- 1000 PVC Drinking water tank provide to Salt pan workers
- 1200 Toilet constructed for Salt pan workers and Tribale HHs

Networking



- Networking of 750 small NGOs, Schools, CBOs in Gujarat, Diu and Daman
- 8939 VRPs and 1201 MTs Trained on POP training on majors crops
- 2064693 farmers trained on POP training on majors crops by VRPs, CRPs and staffs
- 15 Technical Video and IEC Material prepared for Crop and Livestock in 5 languages
- 984536 Women trained on digital literacy in 5240 Villages of 14 districts of Gujarat

Institutions and capacity building



- 17365 HHs involved through 1319 SHGs in our project area
- SAKSHAM State level Federation of 9 District covering TGCS/JFMC with 59078 Members
- 5 Taluka level Federation covering 99 TGCS & 393 SHGs with 19232 Members
- 103 TGCS of 103 villages covering 16959 Members
- 3 Cluster level FPO covering 3358 SHG Members+ 946 Members
- 103 CRP/Volunteer trained for handholding support to community

Environment and Climate Change



- 4467.42 Ha Area treated covering 5178 HHs under SMC work
- 15145 Ha Forest land protected and managed by TGCS
- 23021 Ha Forest land protection by SAKSHAM
- 2683 HHs involved in cultivation of Climate Smart Agriculture Practices
- 25 Peoples Biodiversity Register (PBR) prepared with BMC in villages

Renewable Energy



- 152 Biogas installed covering 152 HHs
- 6 Solar pump installed
- 200 HHs provided Solar light units helps to reduction in kerosene consumption and increase in children's study hours



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Chairperson's Message

The year 2020-21 was perhaps the most challenging year faced by VIKSAT as it had to confront the consequences of one of the deadliest pandemics the world has faced in a hundred years. The cost to human life, disruption of economic livelihoods, the distress of families, and to social interactions have been too high to fathom.

We embed measure of the continuity of the institution's work in the spirit of its people and the adaptability of its processes to changing circumstances. Furthermore, it defines the organization's culture: a culture that supports the constituencies it serves and is resilient enough to work together in an environment of innovation and energy to meet upcoming challenges. VIKSAT has demonstrated all these qualities in this extraordinarily difficult year by reaching more than 84000 beneficiaries of the tribal rural community. In addition, VIKSAT distributed ration kits, COVID-19 safety kits, and seed-sowing kits to those affected in the project villages.

I acknowledge the guidance provided by the Council of Management and congratulate the team for the diligent work and dedication that made the organization successful in tough times.

Kartikeya V. Sarabhai



Director's Message

We are happy to bring you the Annual Report 2020-21, highlighting the activities undertaken by VIKSAT during the year. Being a grassroots organization, VIKSAT made efforts to ensure support for tribal and rural communities by focusing its attention on supporting livelihoods and the COVID-19 emergency response. To overcome limits of in-person interactions, VIKSAT prepared digital IEC material that reached 7.61 lac beneficiaries, and imparted training through virtual modes in project villages.

I would like to extend my gratitude to our chairperson and council of management for their guidance and encouragement. I compliment the Deputy Director and all the staff members for the achievements despite the difficult times. I would like to thank all our partners and the communities for their faith and confidence in VIKSAT during the challenging times. We are putting our best efforts to revive and scale up the interventions in post Corona period.

Dilip Surkar



Dy. Director's Message

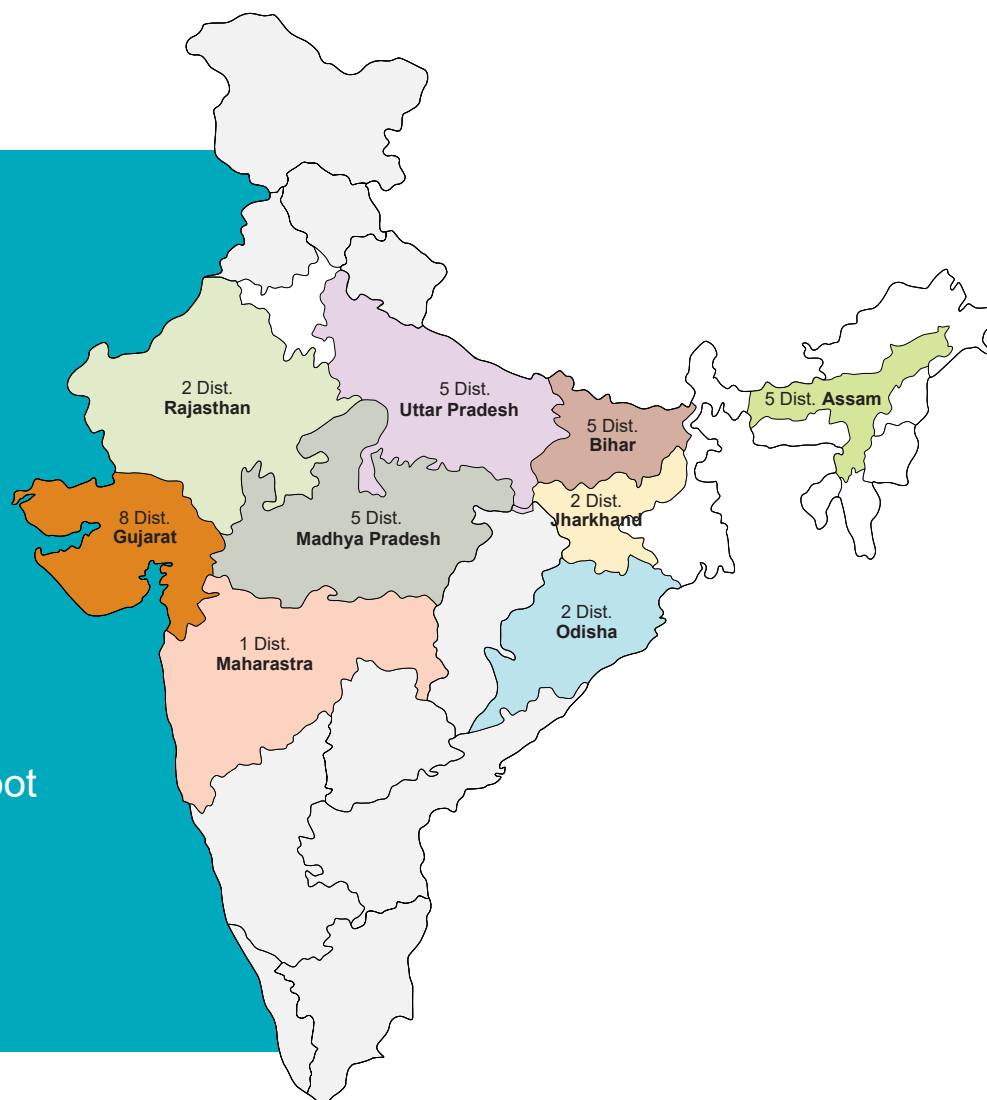
The year has been relatively fruitful considering the pandemic situation. During the year, besides the ongoing implementation of various projects, 25 PICCO projectors were used to reach out to the community and 1084 videos were disseminated, covering the Package of Practices in agriculture, animal husbandry, small ruminants, COVID-19 awareness, institution development, and were trained via the digital platform benefiting 8444 people in project villages. All this has been possible with the support of our council, funding partners, well-wishers, local communities, network members, and a dedicated team of colleagues.

Mahesh Patel



1. Introduction

VIKSAT is working in 8 Districts of Gujarat and 27 Aspirational Districts from 8 states across India in the thrust areas of Land and Water Management, Water Sanitation and Hygiene (WaSH), Sustainable Livelihoods, Institution and Capacity Building, Environment and Climate Change, to support grassroots level actions towards empowerment of people.



VIKSAT as an Organization

Over the last four decades, VIKSAT has progressed from being a platform for intellectual discourse to an organization addressing the issues related to sustainable NRM-based livelihood of rural areas and have successfully showcased how civil society and Non-Government Organizations can work together in a strong bond of partnership towards demonstrating impact in the livelihood space at scale. VIKSAT has provided a forum for interaction among individuals and Organizations involved in efforts towards addressing the environment and natural resource management related issues in the state of Gujarat and at the National Level.

VIKSAT as a Resource Agency

VIKSAT has been working as a Regional Resource Agency (RRA) for the National Environment Awareness Campaign (NEAC) of the Ministry of Environment, Forest & Climate Change (MoEFCC), Govt of Gujarat, Diu and Daman, **since 1986**. So far, more than **750 NGOs, Schools, Nature Clubs** and **CBOs** have participated in the NEAC network.

As part of Google's 'Helping Women Get Online' VIKSAT since 2015 in association with TATA Trusts encouraged women towards change, by taking the lead in promoting digital literacy within their rural tribal communities. VIKSAT through its reach and by networking imparted training to **1604 Internet Saathis** and to various NGOs.

By following the Cascade Model, through networking, trainings were imparted in **12 districts of 58 blocks covering 5240 villages and 9,84,536 women**.

VIKSAT as a Resource Agency conducted four National level training programmes (WaSH Educators Training) that extended over **ten days for creating a cadre of water educators** with the support of Department of Science and Technology (**DST**), Govt of India.

Since 2018, VIKSAT has been working as a 'Knowledge Partner' with **NITI Aayog and ITC Ltd.** in 27 aspirational districts from the 08 states of India



VIKSAT's Operational areas and Offices

HEAD OFFICE

AHMEDABAD

Thaltej Tekra Ahmedabad

Kutch

185 Villages

Kukma (Bhuj) Field Office

Block : Bhuj, Nakhatrana, Anjar, Abadasa, Lakhpat, Mandvi block

Mahesana

40 Villages

Satlasana Field Office

Block: Satalasana

Patan

47 Villages

Radhanpur Field Office

Block: Santalpur, Sami

Sabarkantha

168 Villages

Kheroj Field Office

Block: Khedbrahma, Poshina, Vijaynagar, Idar

Aravalli

150 Villages

Bhiloda Field Office

Block: Bhiloda

Banaskantha

20 Villages

Kheroj Field Office

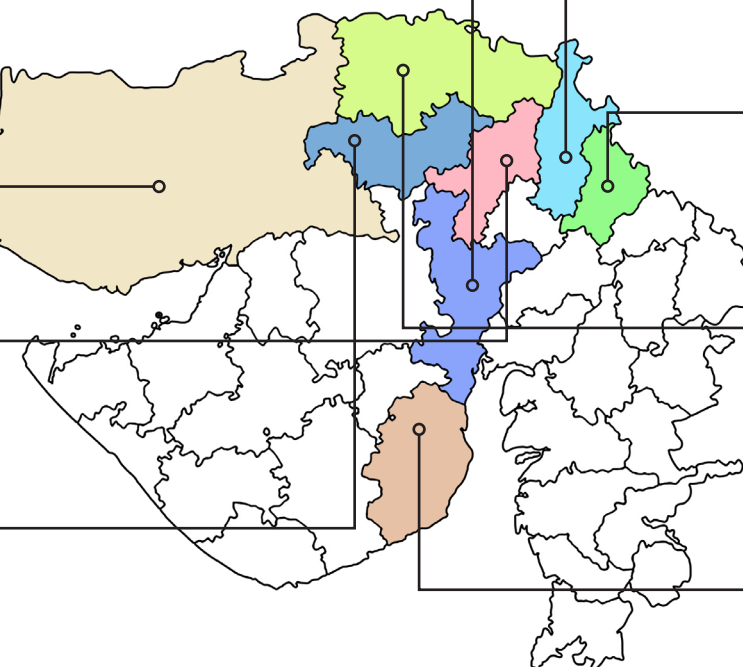
Block: Danta

Bhavnagar

05 Villages

Velavadar Field Office

Block: Bhavnagar, Vallabhipur



VIKSAT at the Grassroots

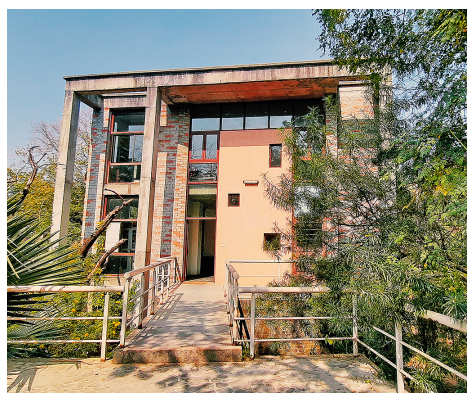
Over the years, with increasing experience of working at the grass root levels, with communities in their local regions, towards developing models which ensure the sustainability of livelihoods through Natural Resource Management. VIKSAT is directly working in **615 villages, with more than 50,000 families** through the facilitation of PIs formed at the village level. Along with the direct activities, VIKSAT has also covered more than **25 lacs** households indirectly through the capacity building of various stakeholders.

VIKSAT Training and Resource Centre

VIKSAT has positioned itself as a resource organization by partnering with various Government and Non-Government organizations and communities for technical, social, and institutional aspects of Natural Resource Management which includes publications, developing and designing of IEC Materials in multi languages, Need Assessment, Impact Assessment and other Feasibility Reports, etc. Moreover, VIKSAT also facilitates a platform for conducting training programmes at its various offices.



Kheroj, Sabarkantha



Thaltej Tekra, Ahmedabad



Kukma, Bhuj



2. Land and Water Management

Sustainable Management of Land and Water is fundamental to global security, in the face of climate change and increasingly erratic weather. VIKSAT aims to develop Sustainable Land and Water Management practices that contribute to the conservation of Natural Resources.



LAKHPATI KISAN

VIKSAT under the Lakhpati Kisan project aims to bring **12000HHs** irrevocably out of poverty by increasing life choices and earning up to **Rs. 1,20,000 per HH** in **53 project Villages** of Sabarkantha and Banaskantha Districts with the support of ABF, HDFC, CInI, and, HUF by following principles of holistic development namely

- Increased resilience of the communities
- Strengthening and nurturing of CBOs
- Development of SHG federations, and secondary tiers
- Market and Demand based Intervention
- Entrepreneurship for service delivery
- Credit based model
- Water Saving Interventions
- Innovative and convergence for improving quality of life
- Adaptation of water saving technique.

1. Improved Agriculture

Agriculture Crop Development include demonstration of sustainable agriculture practices and crop diversification (i.e high value crops) through different production technologies and package of practices with the support of SHGs members and CRPs in small land holdings. It also promotes market linkages, value addition and replication of technology to improve the income and productivity of tribal communities.

Kharif

Maize, pigeon pea, black gram, Jowar, Bajra, Cotton, fodder, etc. engagement is with

10,028
HHs.

Rabi

Wheat, Castor, Maize, fodder, etc engagement is with

8,407
HHs.

Summer

Green gram, Maize, Bajra, engagement is with

2,636
HHs.



Major Achievements during the Year

High Value Crop	Outcomes
Cotton hybrid seed production	8582
Vegetables & Spices in Kharif (Tomato, Brinjal, Chilli, Trellis and Turmeric)	170
Vegetables & Spices in Rabi (Tomato, Brinjal, Chilli, Onion, Garlic, Cabbage and Fennel)	1505
Vegetables & Fruits in Summer (Okra, Cluster bean and Watermelon)	556
Kitchen Gardens	6014



Capacity Building Programme for Improved Agriculture and High Value Crop

During the year, by following the training of trainer method pre-seasonal training was imparted to the farmers, later on training on improved agriculture practices was imparted to the SHG Members by staff members and CRPs on Land preparation, seed selection, seed treatment, seed sowing and spacing and basal dose of fertilizer.

As truly said 'seeing is believing, but feeling is the truth', after sowing Farmer Field School and exposure visit were organized for the SHG members to understand the practical demonstration of the farming practices at the field level and methods of fertilizer management, weeding, irrigation management, insect-pest disease control and post harvesting were also explained to the participants.



Particulars	No.	Participants
Awareness Meetings	42	754
Pre-season Trainings on Kharif, Rabi & Summer crops for program staff and CRPs	04	83
Technical Trainings on Seed Production	02	60
Training on PoP of Kharif Cash Crops & Vegetables for SHG members	407	8355
Farmer Field School on Agriculture & Vegetable Crops for SHG members	311	7147
Trainings cum Exposure Visits on High-Value Agriculture for vegetable cultivators	8	208
Exposure Visits on Improved Agriculture Practices and High Value Crops	10	348



An exposure visit to High-Value Agriculture was organized at NM Sadguru Foundation at Dahod. **22 farmers** attended the training and visited the trellis wadi and floriculture plot at Bilvaniya village of Dahod District. Mr. Ashwin Patel, Dy. Director & Mr. Sanjay from Sadguru Foundation explained the PoP of floriculture crops and motivated the farmer to adopt vegetable cultivation in project villages.



Every year at the end of the season, an experience sharing activity is organised at VO meeting at every village. Moreover, every year a collective experience sharing workshop is also organized at federation level in the presence of various experts, researchers, Government officials etc.

This year an experience sharing Workshop was organized at federation level on the occasion of International Women's Day at Sarvodaya Ashram, Sanali village of Danta block at Banaskantha District on March 8th, 2021. During the workshop, **310 SHG Members** across **23 project villages** actively participated in the event.



The varietal trials of improved Maize TA -5084 variety were carried out in **10 plots of ½ acre** each in project villages. The Syngenta Foundation for Sustainable Agriculture (SFSA) and International Maize and Wheat Improvement Centre (**CIMMYT**, Hyderabad) has collaboratively developed **Maize variety TA-5084**. The Syngenta has provided seeds of Maize TA-5084 drought and water logging tolerant variety about **4 Kg** for each plot at field trial. The derived results are:

Highest production

18 qI per acre in Higatiya village ↑

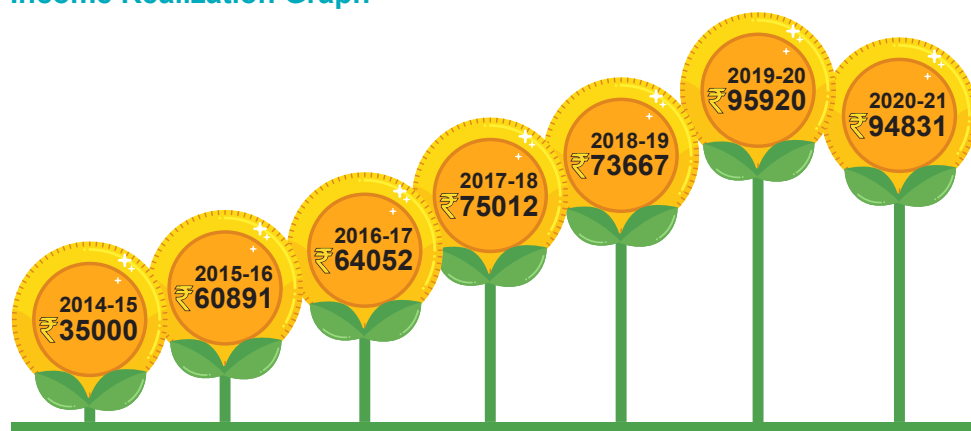
Average production

← **15.64 qI** per acre →

Lowest production

11.6 qI per acre in Patadiya village ↓

Income Realization Graph



Kisan Diwas Celebration
in 53 villages

Collective Vegetable Marketing System

Vegetable collection centers were set up at Choliya and Tebda project villages with the **support of HDFC**. Marketed and sold via Kheroj outlet.

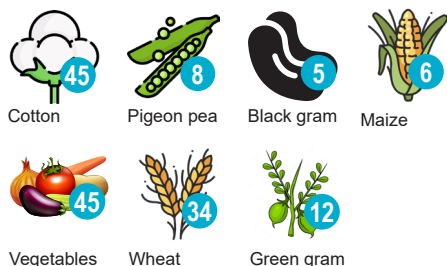
This facilitated individual cultivators in Reducing the **Transaction cost**, Improved their **Bargaining Power**, Reduced the risk of **Deterioration of Produce**. Created a positive impact among youths and promoted **Self-Employment** in villages.



Seed Production

155 farmers

Demonstrated plots of seed production namely :



The total produce of seed production has been procured by SAFE company and seeds of cereals and pulses were sold through SAFE branding in project areas.



Income Generation

VIKSAT with the support of HDFC, under the Income generation activity organised 04 trainings on Small Enterprise Development with **189 SHG** members and brought awareness among the project villages. More than **50HHs** supported the development of small enterprises by improving the equipment and adding facilities i.e. xerox machines, motor rewinding, vehicle repairing shops, hair cut saloon, wireman, tyre puncher shop, carpenter tools, mason tools, beauty parlour, sewing machine, nursery, poultry farm, plumber tools, grocery shop and handcart for sell of vegetables, etc under the activity.



Hi-tech Nurseries

• New Installed Poly-house

04

Hi-tech nurseries installed at Chota bambodra, Sandoshi, Beda, and Patadiya villages under HUF and ABF.

• Cumulatively Installed Poly-house

11

Poly-house & shed-net nurseries have been installed in 11 project villages for growing seedling in soil-less media.

• Entrepreneurs raised

11,00,000

Saplings capacity per season of vegetables i.e. Chilly, Brinjal, Tomato, Cauliflower, Cabbage, Watermelon etc.

• Marigold flower nurseries

7280

in Kharif, Rabi, and Summer seasons.

• Entrepreneurs earned average income

₹76848/- to ₹83863/-
(per season) by selling the saplings.



Small Farm Equipment's

The Tool Bank of Small Farm equipment's was established in 15 project villages with the support of HDFC and CInI.

- Wheel Hoe with 8"weeder
- 3 tooth tine, hiller, plough attachments
- Brush cutter for wheat harvesting
- Winnowing fan used during post-harvesting operations
- Chaff cutter for fodder cutting

The supervision of tool bank of small farm equipment's was managed by Village organizations (VOs). The service based model was developed for use of equipments for small and marginal farmers.



The beneficiaries earned an additional income of Rs. 1000-1500 per month from the enterprise.

"Micro-Enterprise Activities gives Additional Source of Livelihood"

Taraben Jigneshbhai Rathod is an active member of Payal SHG residing at Tebda village, of Khedbramha block in Sabarkantha district. She lives with her husband and owns agricultural land of 0.20 Ha. Due to limited income sources, her family faced income-related issues. Taraben's husband Jigneshbhai completed his ITI Diesel Mechanic Course and also has sufficient work experience in an auto garage. He earns Rs. 5000 per month from his Job.

Taraben under the HRDP program supported by HDFC got an opportunity to support her husband in opening his own auto garage shop in Tebda Village. With the support of the program Jigneshbhai received the support of Rs. 5000/- from which he purchased all the required toolboxes of Rs. 10720 for repairing bikes and earns an income of Rs. 8000/- per month and a cumulative income of Rs. 80000 -90000 per year from the auto garage. Moreover, the family also earns an income of Rs. 70000 from agricultural land.

Jigneshbhai said that "I am thankful to HDFC and CInI for their support in fulfilling my dream to start my own auto garage shop"

“The Improved Agriculture shows Promising Results in the Area”



Beda village is a remote village in Danta Block covering a population of 1306 tribal bhil community. Agriculture is a major occupation of the people followed by animal husbandry for livelihood. The majority of the farmers in the project area depend on rain-fed agriculture. Earlier families from this area had been migrating out during the Rabi and Summer season to farms in the neighbouring districts.

VIKSAT initiated the Lakhpati Kisan Programme with the support of Axis Bank Foundation, Tata Trusts and CInI from October 2018 in 30 villages of Danta and Khedbramha blocks and setup an involvement of the community under the Community based organization by promoting SHGs in villages at 70-80 % saturation of households under it.

VIKSAT has promoted 17 SHGs covering 205 households (more than 100% HH) in Beda village. The SHGs is doing saving Rs. 50 -100 monthly by each member and cumulative savings of more than Rs. 2.4 Lakh. VIKSAT has also implemented two lift irrigation schemes covering 30.95-acre of new areas under irrigation and benefited 35 HHs.

During the Rabi season in 2020, VIKSAT implemented the improved agriculture programme with more than 1900 HH in 30 villages of Danta cluster project area. In Beda village, 9 farmers have cultivated Potato crop under high-value agriculture in an average 0.05 ha (5 Guntha) land area for the first time. The total production of 12555 Kg from 0.49 Ha area is average production of 25622 Kg per Ha. The highest production of 1340 Kg and lowest production of 1150 Kg were received by farmers in Beda village. The market linkage facility is provided at their doorstep by the SAFE producer company. All the production of Potato sold to ImpAgro company at the rate of Rs. 8 per Kg and other vegetables are also provided to them. The farmer got average production of 1395 Kg and an income of Rs. 11160 from potato cultivation in a small parcel of land within 3 months. Farmers are very happy as they get a market facility at their doorstep and a better rate than the nearest vegetable market. They have agreed to do potato cultivation on large scale.

“Vegetable Cultivation Leap towards the Growth and Better Life”



Khant Gavriben Mashrubhai is a widow farmer residing in Dantiya Village of Poshina Block in Sabarkantha District. The only source of her family is 0.58 acres of land and 03 milch animals. She is an active member of Jay Gurudev SHG formed in 2016 by VIKSAT under CDP project and regularly attended meetings, PoP trainings and exposure visits on agriculture and vegetable cultivation imparted by VIKSAT staff which inspired her to cultivate vegetables on a commercial basis. She cultivated tomatoes in 0.05 ha (5 guntas) on her land in the Kharif season of 2020 and received the support of wire, pole, and seeds of vegetables under the ELEQRT programme sponsored by HDFC and CInI.

Last year, she cultivated Maize, Cotton seed plots in Kharif, and Wheat in Rabi seasons and earned an income of Rs. 41000 from agriculture and an additional income of Rs. 45000 from animal husbandry. Subsequently, In the small piece of land initially, she produced 30 kgs of tomatoes which were sold at the rate of Rs. 30 per kg in the village, and earned an income of Rs. 900. Later in the end of the season she received the production of 800-1000 kgs and earned an income of Rs. 24000-30000. The income from Cotton seed plots and Maize was nearly Rs. 50000 and by selling milk received Rs. 45000. Hence cumulatively she earned an income of Rs. 125000 from agriculture and animal rearing

2. Livestock and Small Ruminants Development

To support tribal families with less agricultural land holdings, the small ruminants programme was started with **8751 HHs of Goat Rearing** families and Livestock development in **5722 of Animal Husbandry**. The programme activity has been promoted in a scientific and professional manner through the capacity building of goat keepers, by providing diagnostic services and preventive health measures in time to control the recurrence of infectious and fatal diseases by involving the village Organizations.



The Primary healthcare service of **deworming, vaccination, and PPR** is given by **Pashu Sakhi** with some nominal charges.

Training Programmes	No.	Participants
Trainings on animal husbandry and livestock management for CRPs, SHGs members	45	1180
Trainings on cattle shade, feed management and silage for SHG members & CRPs	47	1231



Exposure Visit on Animal Husbandry was organized on 25th January 2021 for 25 livestock rearer on process of silage preparation and best practices in Gaushala, Sankhaya at Bayad Block.



Training cum Exposure Visit on Ideal Animal Husbandry was organized by Animal Husbandry Department, Khedbrahma on 20 March 2021 and emphasized on ideal animal husbandry rearing practices, cattle shed and feed management.

Major Achievements during the year

Animal Healthcare Camps



62 camps for deworming, dipping vaccination, and cattle treatment were organized for goats and cattles. Total of **7686 goats 2126 Cattle covering 2645 HHs** were benefited through camps. This resulted into overall improvement in health i.e. reduction in mortality rate, improved immunity and fertility rate, regular milk production and reduction in hair loss etc with the support of HDFC and ABF. In addition, 11 Travis were installed in all villages for the treatment of animals.

Cattle Purchase



The financial support was provided to eight Dairy Cooperative societies for its **95 members** for purchasing **95 Buffalo/Cow** with the support of HDFC

With the support of Government Department an amount of Rs. 20,000 in 04 villages of Khedbrahma and Rs. 10,000 in 04 villages of Poshina were received to beneficiaries that ensured additional income of Rs. 2000 per month for Dairy Cooperatives.

Goat Farm



One goat farm (8 Goat+2 Buck of the Sirohi breed) was established in Sanali village of Danta Block with the support of ABF and **another goat farm** was established in Dantiya village with the support of HDFC.

44 bucks of sihori breed were provided to 44 beneficiaries of 11 villages under breed improvement with the support of HDFC.

Azolla & Fodder



05 Azolla Mother units were constructed in project villages for raising Azolla to raise the diverse source of income for local farmers. **85 Fodder** demo plots were done with 85 farmers to feed the livestock with the support of HDFC

Vermicompost



10 Mother units vermicompost and **09 Vermi Compost** units were installed with the support of HDFC to supply quality earthworms to individual vermicompost units.

Dairy Cooperative



04 Dairy Cooperative (Matarvada, Sembliya, Dantiya, Ratanpur Villages) were supplied instruments like Milking Machine, Weighing Balance, EPC Battery, Computer, Analyzer, Vibrator and Printer for improving the facilities to bring transparency in activities with the support of HDFC.



A **chaff cutter** is a mechanical device for cutting straw or hay into small pieces before being mixed together with other forage and fed to cattle which in turn helps the cattle to produce the milk easily.

During the year, 257 Chaff cutter were provided to 257 SHG members in project village under HDFC to minimize fodder wastage.

Workshop on Convergence with Government Programmes

The workshop on Convergence with Government Programme was organized on **20th February 2021 at AART Centre, Kheroj**. During the Programme, 25 Government Officials from Development Support Agency of Gujarat, Tribal Department, Horticulture Department, Agriculture Department, District Rural Development Society, Irrigation Department participated in the workshop and graced the occasion with their presence.

The officers visited Lift irrigation scheme, High tech nursery, Net house nursery, Vermicompost, and vegetable collection center at Choliya village to interact with program beneficiaries. Lastly, the team visited the SAFE FPO processing unit of turmeric and dal at Kheroj. They appreciated the remarkable work of VIKSAT in tribal areas.



Shri R C Ninama, IAS, CEO, D-SAG, Tribal Development Department, Gandhinagar, Shri Ashok Chaudhary, PA, Tribal Department, Khedbramha and Shri Patel, Dy. Director Horticulture Department discussed various Government program schemes and process of leveraging its benefits in tribal areas.

“Livestock Management with Agriculture a Model of Lakhpati Kisan”



Panchmahuda Village is located in Khedbrahma Block of Himmatnagar District. The village has 375 HHs covering 2358 population of tribal Bhil community. VIKSAT initiated the involvement of the community under the Lakhpati Kisan Programme with the support of Axis Bank Foundation, Tata Trusts and CInI in October 2018. VIKSAT promoted SHGs and VO and also implemented a watershed development programme, improved agriculture, water resource development, livestock management programme, and Dairy Development, etc in the village.

VIKSAT organized various training and exposure visits on best practices of animal rearing, and critical points for buffalo and goat rearing e.g. vaccination, deworming, dipping, improvement in milk, care taking for buffalo and goat, cattle shade for buffalo and goat, feed management, cattle shade management. In addition also organized an exposure visit to the successful model of dairy development for SHG members at the village level, cluster level. VIKSAT is closely working with Panchmahuda Milk Producer Co-operative society functioning since 1980 by the Sabarkantha District Federation with 375 members.

VIKSAT has done convergence and linkages with various Government programmes/ schemes to reach villagers. VIKSAT provided Rs. 25000 to 12 program beneficiaries for purchasing buffalo/Cow through the Milk Cooperative of Panchmahuda village. Moreover, also promoted 04 fodder demonstrations of

Jowar multi-cut (COFS -29) variety and 3 Azolla in the village for quality feeding of livestock management.

Earlier, 12 women farmers had 13 milch cattle and their average income from dairy was Rs. 72750. Whereas, 02 women members did not have the milch animals. However, their average income from agriculture was Rs. 64166. Later on, after getting involved in the programme, no. of cattle increased to 25 from 13 and the average income from dairy is Rs.153583. The adaptation of improved PoP led to an income enhancement of 19%. The overall income increased by 41% for agriculture and animal husbandry programme beneficiaries.

The awareness raised among the SHG members about the improved agriculture and animal husbandry changed the scenario in the village.

The data from Panchmahuda Milk Producers Co-operative revealed that there is 27 % increase in their membership and also 47% increase in the milk collection in dairy cooperatives that highlights the efforts of VIKSAT in improving agriculture, capacity building, and convergence with Government programme for the development of the village. The selling of milk has helped to increase the income to 49%. The demand for loans for the purchase of cows/ buffaloes is increased in SHGs and VOs meetings in the village. The scope of dairy development getting a magnet among the community.

The comparative statistics of Panchmahuda Dairy Cooperatives is listed below:

Particulars	2019-2020	2020-21
No of Members	257	350
Milk (Litre)	116733	218718
Payment (Rs.)	41,20,171	86,02,540
Dividend (Rs.)	6,18,620	10,35,526

3. Water Resources' Development

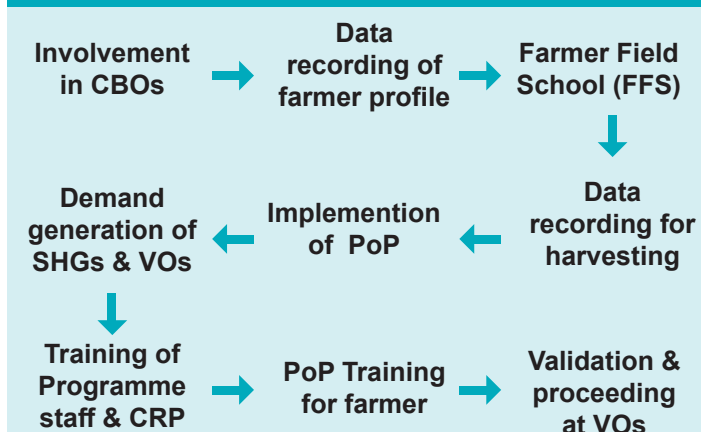
VIKSAT is working in ‘Transforming Water Security and Agriculture Potential for Small & Marginal Tribal Farmers of dry-arid regions of Sabarkantha and Banaskantha Districts in Northern Gujarat’ with the support of Hindustan Unilever Foundation (HUF). VIKSAT has set up a replicable model of small marginal tribal farmers in the dry arid regions with the intent to build their capabilities with tools for self-driven measurement, and to support them with incentives to make smart choices (water use, farm practices, crop choices) and empower them through collective market-based institutions. These smart choices will have helped them to multiple their current incomes manifold and build their resilience to deal with climate related risks in **53 tribal** dominated villages.



Water Saving through demand led interventions

- Water literacy with crop water governance game for adoption of practices
- Water budgeting in each villages
- Crop planning with farmers
- Awareness on water conservation techniques (Irrigation Techniques Drip, Sprinkler, Mulch etc)
- Package of practices of major crops (High Value interventions)
- Irrigation practices - Alternate Furrows, Kyara etc..
- Water application according to critical stage of crops
- Promotion of FYM and Vermicompost

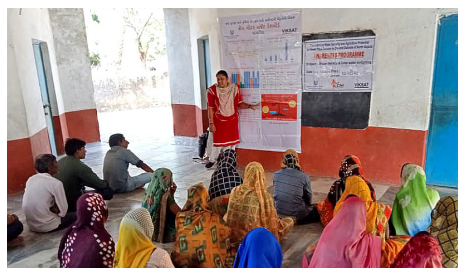
Process of Demand side intervention



The details of campaign and training programme are as follows

Water Literacy and Water Campaign programme were conducted in each village to bring awareness among people and to sensitize them on water utilization and demand of various crops, adoption of irrigation practices, Saving of water, etc. Moreover various crop water budgeting exercises were conducted in each village to understand current situation and practices that have been taken up and plans were prepared with farmers of respective villages.

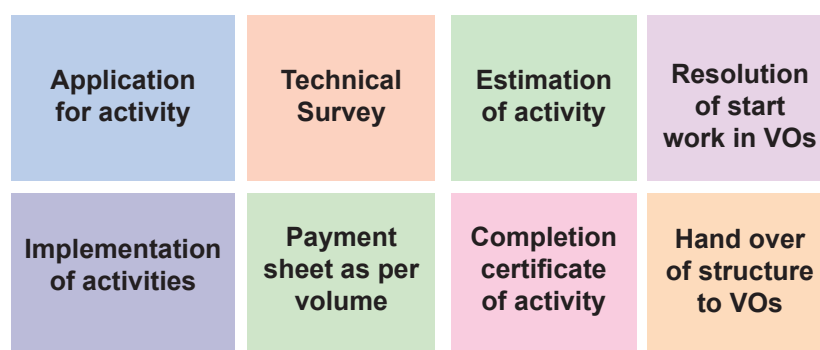
Particulars	No.	Participants
Awareness campaign on water literacy for water-saving practices	24	903
PoP of major crops for water-saving practices	52	858
Training on irrigation management for SHG members	04	164
Exposure visit on drip irrigation system	01	92



VIKSAT is working with strategy on water use reduction and supply augmentation through supply side interventions

- Retention of soil moisture
- Soil and moisture conservation work
- Irrigation water supply
- Lift irrigation scheme
- Augmenting water supply
- Desiltation of existing structure
- New water harvesting structure
- Convergence with government & other CSR

Process of supply side intervention



Access to irrigation is an important pre-requisite for enhancing the income from high value crops, and also for intensification of the agricultural interventions.

Major Achievement during the year



Lift Irrigation Scheme

- During the year, 11 small lift irrigation schemes have been completed and benefited **230 HHs** by covering **173.20-acre** area with the support of ABF & HUF. Moreover, 04 small lift irrigation have been installed in area **64.75 acer** benefited **109 HHs** with the support of HDFC.
- It ensured the availability of water in the Rabi and Summer seasons. Also, an income of Rs. 10000-15000 per HH through irrigation.



One-Acre Drip Irrigation Model

- During the year, 13 drip irrigation systems were installed covering 13-acre of land and benefited **13 HHs** with the support of HUF. 14 one-acre model drip irrigation systems have been installed covering 14-acre of land and benefited **14 HHs** with the support of ABF and CInI.
- 05 Drip Irrigation systems were installed covering **3.13 ha** benefiting 13 HHs under GGRC with the support of HUF.



Check Dams, Nala Plugs, and Deepening and Widening of Nala's

Under the ELERQT project, 01 Check Dam, 04 Nala Plugs, and Deepening and Widening of Nala's were constructed on Nala to harvest the water and augment the groundwater recharge with the support of HDFC. All the structures would refill three times during the rainy season. It would be beneficial to recharge **21 wells** and **86 farmers** downstream. The cumulative harvest of **66.84 Lakh** liter by the investment of **0.16 rupees** per liter in the project area. The availability of more surface water has allowed farmers to single cropping to double cropping.



Defunct Hand Pumps

18 defunct Hand pumps were repaired in project villages with the support of HDFC. More than **360 families** were benefited and have access to safe drinking water at the hamlet level. In addition, Drinking Water facility was also available during summer season. This has helped the women to save their time and energy.

Water Potential



5.57 billion liters

+ Yield



934.64 tonnes

+ Employment



38614 person days

+ Income



6.17 crores

Assurance of Data 2019-2020

During the year, the Assurance of Data 2019-2020 under HUF programme was done by Ernst & Young Associates LLP from 21-22 December 2020.



World Water Day

It was celebrated on **23rd March 2021** at AART Centre, Kheroj with the support of HUF. 19 CRPs and 02 Staff members participated in the event. During the event, the participants discussed various techniques and practices to save water and pledged to save water till their last breath. The same was also discussed during the SHG group Meetings.

3. Water, Sanitation & Hygiene (WaSH)

Clean water, decent toilets, and good hygiene are human rights, to which millions of people do not have access. Goal 6 of Sustainable Development Goals (SDG) aims to ensure that everyone has access to safe water and sanitation in sustainable manner. In support of the SDGs, VIKSAT initiated various WaSH activities.



The main objective of **WaSH** is to bring awareness among the students, rural community and train them to enhance the practices of personal hygiene, cleanliness and good habits.

Awareness and Training on WaSH



12 Training on WaSH for 358 SHG members with the support of HDFC and NABARD.

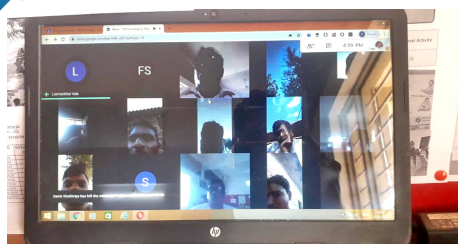


40 Awareness programmes were conducted on WaSH in 40 project villages with the support of Tata Water Mission and CInl.



Drinking Water and Sanitation

The sanitation unit for girls and boys and Drinking water stand posts were constructed in the Primary Schools of Tebda and Ganer villages respectively. It benefitted more than **250 students** and ensured safe drinking water, Better sanitation facilities, and increase attendance in school at schools.



Response to COVID19 Pandemic

A complete lock down was announced from **25th March, 2020** as a preventive measure against the COVID 19 by GoI. All businesses and services in India, except essential ones, were suspended. COVID19 pandemic is having a ravaging effect in lives of people and also had repercussions on the economy. In the event of pandemic, VIKSAT initiated various activities in **206 villages** covering **84883 beneficiaries** through online campaigns, video and poster dissemination through WhatsApp.



Under HUF project, PICCO projectors were purchased to reach the community through video dissemination and for that VIKSAT imparted training to the CRPs, and CRPs then imparted training to SHG members at village level in small group as per Covid 19 guidelines through the digital material of animal husbandry, agricultural PoP, cattle development, Covid 19 awareness camps, Small ruminants, Institution Development and vaccination etc.



9615 masks were prepared by SHGs and are distributed among the project villages under VESTAS, HUF and SAFE.

SAFE producer company, Kheroj provided door step facility for purchasing and selling of Agri-products.



Total **25586 nutritional Kit** (GOMO kits) were distributed to **12793 children** of **10354 HHs** in the 52 project villages with the support of the Indian Nutrition Initiative (TInI) and Tata Trusts, with objective to boost immunity power in Children. The SHG members, CRPs, VO leaders, & Anganwadi workers also participated in the distribution.



The **Kharif 3050 kit** of Maize and Tuber/ Udad for 0.5-acre plot and kitchen garden **6014 kit** were provided to SHG members in 53 project villages with the support of HUF. The seed treatment material was also provided to all ABF cluster villages with the support of ABF.



The kharif kit of Maize, fertilizer, micro nutrients for 1 acre plot was provided to **3725 SHG** members in Lakhpati kisan cluster project villages with the support of the Government Department ATMA, Horticulture, Agriculture and Tribal Department.



1048 Video Dissemination Programmes on PoP of Agriculture crops, Cattle small ruminant development, Institution Development and COVID 19 awareness etc was done by covering **8444 SHG** members of 460 SHG groups with the support of HUF.



200 Grocery Kits were distributed to the economically backward and widow women of Vijaynagar, Khedbrahma and Bhiloda Blocks of Sabarkantha and Aravalli Districts by FinOlex Pipes.



4. Sustainable Livelihoods

VIKSAT adopts a holistic approach to conservation that empowers rural communities to analyze, decide, and act in order to ensure the sustainable management and use of natural resources, as well as to improve the sense of well-being among the community.



DST Core Project Enhancing the livelihoods of 45 tribal villages of Aravalli & Sabarkantha district of Gujarat. The project aims to promote research and create awareness of various activities through demonstrations and dissemination and replication among farmers.

The project was sanctioned in the year 2018 by the **Department of Science and Technology**.

DST core is a **5 year** project (October - 2018 to September - 2023) consisting of five major approved activities carried out through capacity building programme.

- A** System of Wheat Intensification (SWI) & System of Maize Intensification (SMI)
- B** Integrated Farming System
- C** Turmeric Cultivation
- D** Improvement and innovation in the local process of preparing bio-pesticide and its Application
- E** Animal Husbandry



Capacity Building cum Exposure Visits

The project is in the third year, like in first year beneficiaries have been identified and trainings have been imparted by subject experts from the Agricultural universities and Krishi Vigyan Kendra, Government of India, prior to the implementation of the activities i.e. SWI & SMI, preparation of vermicompost, and plant protection measures through the preparation of biopesticide using the locally available plant materials, and its effect on crops as well as on the environment. Farmers' field days have been organized from time to time according to the crop stages. Similarly, training on feed management and breeding care was also provided by Veterinary Doctors during the year.

Farmer Field Day (FFD) Programmes

Particulars	No.	Participants
FFD on System of Maize Intensification (SMI)	04	126
FFD on System of Wheat Intensification	12	478



Overall net profit Rs.3099/0.10 ha as compared to Farmer Practices of wheat cultivation.

A) System of Wheat Intensification (SWI)

Area under SWI had expanded from 4 villages (22 farmers) to 27 villages (200 farmers) in an area of **5.5 acres** in Rabi 2018 to **88.2 acres** in Rabi 2020 respectively.

Increased **28.86% yield** over farmers practice from 0.1ha area in Rabi 2020 seasons. Cost benefit ratio in SWI is 1:2.49 where as in normal Wheat cultivation 1:1.68.



Overall net profit Rs.2214/0.10 ha as compared to Farmer Practices of Maize cultivation.

System of Maize Intensification (SMI)

Maize crop under SMI was grown in **42, 12 acres**, mainly kharif and Rabi seasons respectively in 2020. Altogether there were 80 beneficiaries from 11 villages.

Increased **16.22% yield** over farmers practice from 0.1 Ha. (10 guntha) area in all (Kharif & Rabi) seasons



Farmer started cultivation of vegetables

B) Integrated Farming System

The area under Integrated Farming System has expanded to 12 villages (27 farmers) in an area of **27 acres** in the year 2020-21.

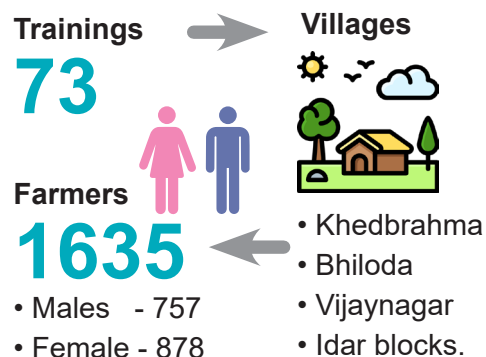
In this system, demonstrations on Cereals Vegetable and Cereals+ Pulses+ Vegetables and Cereals +Pulses+ Vegetables + Fruit cultivation etc. were demonstrated.



C) Turmeric Cultivation

In the project villages, the area under the residue free/organic turmeric cultivation was comparatively very small approximately 1 acre. It was made to expand from **1 acre** to **22 acres** in Kharif 2020 (avg. 5 guntha/ farmer) (200 farmers, 30 villages).

Overall net profit Rs.8415/0.05 ha as compared to Farmer Practices of residue free/organic Turmeric cultivation.



Processing of Turmeric

Sorting and grading of raw turmeric rhizomes

Boiling and peeling

Shade drying

Processing

Sieving

Packaging

Marketing

The lab report

The laboratory report also indicated that the turmeric powder sample was of **Excellent Quality and Residue Free**.

Process & Pack

During the year, the SHG was able to process and pack **300 Kg of residue-free turmeric powder**, and sell at the **rate of Rs. 250/Kg** at village and block level government office during COVID-19 pandemic.

Annual Selling

The **women SHG members** have been able to get good amount of money from their efforts i.e., **Rs 80/Kg profit**. The annual turnover was **Rs.75, 000/-**.

Marketing

Also, it is important to note that **SAFE-Kheroj sold 700 kg Residue Free Turmeric Powder @ Rs.200/kg** and **Individual entrepreneur** sold 500kg Turmeric Powder @Rs 250/kg and earned better income.



D) Improvement and innovation in local process of bio-pesticide

Explored and identified the widely available plant materials having pesticidal properties for biopesticide preparation. After imparting training, a biopesticide was prepared with the locally available plant materials with **25 women** beneficiaries of **10 villages**, and conducted demonstration on their field crops.

Application to crops- Maize, Groundnut, Wheat, Turmeric, Vegetables- Brinjal, Tomato and in Plug Nursery. The sucking pests i.e. Thrips, Aphid, Jassid, Caterpillar and Fruit Borer in Maize, Groundnut, Turmeric, Wheat and Vegetables-Brinjal, Tomato and Chilli were found to control and improved the quality and quantity of crops.

E) Animal Husbandry

Intervention was made to improve local breed and do better livestock management using the farm-based nutritive fodder production, and feed formulation and also introduced the Sirohi breed of Goat for breeding.



28 Azola cultivation units

have been installed at 10 project villages. An enhanced milk production by 1 L and 1 % fat production had also been noticed after feeding the fresh Azolla to the cattle.



The **Fodder crop** i.e. bajra variety, BHN-10 and BHN-21 was cultivated under the project in **12.25-acre** area (252 farmers, 23 villages). After feeding the fodder, 1% fat content have increased as per the information shared by the secretary of Milk Cooperative Society.



Vaccination and Deworming have been given to **2357 Goats** in 12 village of Vijaynagar, Khedbrahma and Bhiloda block under the guidance of Veterinary doctor. Moreover, **06 Sirohi Breed** Goat were provided to community for local breed improvement in Bhiloda, Vijaynagar and Idar blocks.

Impact of the WADI Project

The TDF Project has been successfully implemented by VIKSAT and 1002 Wadi's were setup with the support of NABARD in Bhiloda and Vijaynagar Blocks of Sabarkantha district from April 2013 to June 2020.



- **32 %** of the wadi beneficiaries expanded their land under cultivation
- Promoted scientific cultivation of turmeric - more than **700 wadi** beneficiaries are cultivating the turmeric regularly in 5-10 guntha of lands with additional income of **Rs. 20,000/-**
- **70 Ha.** area has been brought under turmeric cultivation earlier it was just 2-3 Ha.
- Income of Beneficiaries: As a result of wadis, now farmers are getting better income, an average around **Rs. 62000/-** as compared to earlier **Rs.25000/-** from 1 acre of his farm
- Overall crop intensity was increased by **260%** from **151%** after the TDF WADI Project

“Vermicompost – A Source Of Livelihood For Women Farmer”



Smt. Shardaben is a small farmer residing in the Ghanti Village of the Bhiloda Block. She owns one acre of agricultural land; her major occupation is farming and cattle rearing.

VIKSAT team, under the DST core project, visited her place during a field survey for the cultivation of wheat by following the SWI technique. The team saw the preparation method of making compost under direct sunlight, therefore VIKSAT organized a training cum exposure visit for the Ashirvadh group to vejpur village on vermicompost's uses and preparation methods. Meanwhile, Shardaben experienced serious termite and weed issues after applying the same. Further, based on that, Shardaben made her pucca bed and the VIKSAT team also imparted



another training program at her place on the preparation method for harvesting in 60-70 days. The harvested vermicompost was also tested in the Gujarat Laboratory. The Nutrient contents of Vermicompost are N- 1.20% P 1.62% and K 0.82%.

After the training in 2019 and 2020, she made vermin compost thrice each year and earned Rs 11725/- from selling 1675 kgs vermicompost and an additional Rs 4000 by selling the multiplied worms.

She expressed that without any investment she is earning an income with the technical support of VIKSAT. Moreover, she has also inspired other farmers to take up the same activity.

5. Institution and Capacity Building

Institution and Capacity Building aims to strengthen the skills, instincts, abilities, processes, and resources that the CBOs and rural communities need to survive, adapt and thrive in a fast-changing world.



VIKSAT formed **182 SHGs**, and cumulatively touched the lives of **17365 HHs** through **1319 SHGs** across its field offices in Gujarat during the year and total **48 VOs** formation.

People Institutions

VIKSAT's core objectives are to strengthen and promote 3- tier SHG -VO- Federation Institutional Model, at the grass-root level the Self-Help Group (SHG), intermediary level Village Organization (VO), and an Apex level federation as a Farmer Producer Organization (FPO). These institutions are central for VIKSAT to take forward its gender-sensitive sustainable agriculture and natural resource management agenda.

This year the efforts were made to strengthen SHGs, VOs and CLF and to form new SHGs and VOs and involve more number of HHs under various activities.

Field office wise SHGs status

Kheroj		Satlasna		Bhiloda		Randhanpur		Bhuj	
SHGs	Members	SHGs	Members	SHGs	Members	SHGs	Members	SHGs	Members
962	12010	135	2025	118	1770	62	930	42	630

Major initiatives for Self Help Groups (SHGs) during the year



182 SHGs
formed covering
2222
Members



226 SHGs
taken Books
of Accounts &
205 SHGs
taken Cash
Box



155 Bank
Accounts
were Opened



376 SHGs
were classified
and graded
based on their
performance



165 SHGs
were scrutinized
and audited

Capacity-Building Programmes for SHGs & VOs

Sr. No.	Particulars	No.	Participants
1	Training on Govt. Schemes & Social Security and Entitlement for SHG Leaders and CRPs.	8	92
2	Trainings on Orientation and Management of SHG for members	70	1869
3	Orientation trainings on Financial Need and Social Issues for SHG members	35	931
4	Orientation training on Roles of Leader, Conflict Resolution, Facilitating and strengthening of SHGs for leaders	24	901
5	Orientation training on Self Grading and Bank Linkage Process for SHG leaders	7	192
6	Trainings on Record Keeping for SHGs leaders	10	280
7	Trainings on Leadership Development and Group Dynamic for SHGs/VOs leaders	24	744
8	Training on Finance Literacy for SHG members	15	333
9	Training on importance, structure and process of VOs, formation for VOs leader	04	123



Village Organization (VO)

Another endeavor taken up by VIKSAT to strengthen the SHGs at the village level and provide a platform for them to share their issues and explore solutions was promoted through the formation of Village Organizations (VOs) and CFLs (Cluster Level Federations).

- During the year, 09 new village organizations (VOs) were formed, and cumulatively **48 VOs** have been formed covering **70% SHGs** in the project villages of Kheroj field office.



An Exposure Visit on the successful model of Village Organization (VO) and Cluster Level Federation (CLF) was organized at **PEDO, Dungarpur** on **18th & 19th February 2021** for SHG Leaders. During the visit, the team 49 members visited the VO formed by PEDO and understood the process of VOs.



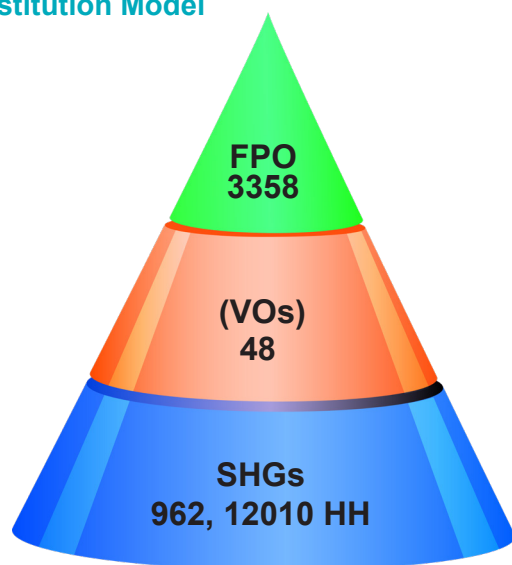
One training on Leadership Development and VO Management and **11 training** on Group Dynamics and Leadership development supported by HDFC were organized for SHG leaders at AART Centre, Kheroj. In the training programmes **405 SHG** leaders, and **12 CRP** participated.

Apex-Level Institution

VIKSAT's core objectives are to strengthen and promote 3- a tier SHG -VO- Federation Institutional Model, at the grass-root level the Self-Help Group (SHG), intermediary level Village Organization (VO), and an Apex level federation as a Farmer Producer Organization (FPO). These institutions are central for VIKSAT to take forward its gender-sensitive sustainable agriculture and natural resource management agenda.

- An apex-level institution (CLF) - SAFE Producer Company Ltd has been incorporated in the year 2015 -16 at Kheroj in the project areas which have been registered under the producer company act 2003. The SAFE has outlets at Kheroj, Delwada and Mandali are providing doorstep quality agriculture input at an affordable rate and procuring agriculture produce.
- The SAFE FPO has **3358 shareholders** with a share capital of **Rs. 6,23,200** as on 31 March, 2021.

3 tier Institution Model



- Input supply and Market Linkages
- Aggregation, value chain interventions
- Technology demystification,
- Leverage the Government schemes
- Provide services for sustainability
- Accessing Credit to SHGs through VO

- Extension support through CRP
- Creating demand led intervention
- Rolling out various services and Aggregation
- Socio-economic development
- Developing leadership
- Support to SHGs

- Regular saving-credit in monthly meeting
- Knowledge creation, awareness
- Demand generation
- Resources Development



An Awareness cum Training Workshop was organized in Kheroj for the bankers of Sabarkantha & Aravalli Districts on **31st December, 2020** at VIKSAT, to promote welfare of these areas through deeper credit penetration. During this workshop local bankers, community imparted awareness on special refinance schemes of NABARD on WaSH and Micro Food Processing Enterprises to SHGs, VO, FPO etc. It also covered the discussion with local bankers regarding opening of SHG bank accounts and KYC documents etc.



Major Achievements of FPO

- Annual General Meetings of SAFE Producer Company Ltd. were organized on **9th march 2021** at Khedbrahma block in which **600 SHGs** leaders participated. Mrs. Shantaben discusses planning, budget, activities and programs done by FPO, roles and responsibilities of shareholder, board of director, SHG, CRP
- Monthly regular meetings are arranged for BOD members. During this year **09 meetings** were conducted with 36 participants
- **445 women** became shareholders of SAFE company by giving share capital of **Rs. 99750/-**
- During the year, FPO sold agriculture inputs like seeds, fertilizer, insecticides and pesticides of **Rs 112.49 lakh** through its outlets covering **4674 members**
- Agriculture inputs (seeds, fertilizers, pesticides) sold of **Rs. 123 lakhs** covering **4674 members**.
- Farm Produces; sprouts, vegetables, and lentils sold of **Rs. 14.69 Lakhs/-**
- Linkage with Impagro Farming Solutions Pvt Ltd for vegetable business to get better price of their vegetable at door step and assured market linkages of **8835.04 Qtl** of **Rs 66,893**
- **281.58 quintal** farm produces procured of **Rs. 1448220/-**, Red Gram (pigeon pea), 232.16 Qtl., Green gram. 9.37 Qtl., Popcorn Maize, 10.2 Qtl, Black gram, 12.85 Qtl and Turmeric 17 Qtl.
- The Syngenta provided seeds of Maize variety about **27 Kg** female and **18 Kg** male seeds in **3.775 acre**. The seed production of Maize variety was provided to the 6 farmers in project villages
- Sold cattle feed of **Rs. 4.81 Lakhs**
- Health Insurance of **7 goats** and **2 bucks** was taken by the farmers with the premium amount of **Rs. 378/-** per goat
- Colour sorting and cleaning machine was established for better price of process dal. Processing of **44.0 quintal** pulses and turmeric and sold dal and turmeric powder of **Rs. 6.36 Lakh**
- Established a Turmeric Processing Plant with a packaging machine with the support of DST for FPO development activity and value addition

Staff Development Programme

06 Staff Development Programme were organized for programme staff and CRPs on Online Mental Health Awareness, Online Communication Development, conducting Annual General Body Meeting, Micro Credit and Livelihood Planning (MCLP), Accounting and Record Keeping of Pls, concept of leaders, scheme cycle, and strategy of implementation of programme activities for successful implementation of Agriculture and People Institutions and livestock & small ruminants.



Mission Sunehra Kal

VIKSAT is successfully implementing the project entitled “Capacity Building for Sustainable Agriculture in Aspirational Districts” as a knowledge partner with ITC and NITI Aayog in **27 Aspirational districts** from the **8 states of India since 2018**.



Capacity Building

The Cascade approach was applied for reaching the farmers. Digital IEC material was shared with the MTs, and subsequently, each MT passed it on to the VRPs, and through VRPs, it was imparted to the farmers in all **27 Districts from the 08 states of India**.

Considering the Covid19, In the year 2020-21, Digital IEC Material was developed in the local languages i.e. Hindi, Marathi, Odiya, and Assamese on the standard Package of Practices for 15 crops of the Kharif & Rabi seasons.



Kharif Crop

Bajra, Jowar, Cluster bean, Pulses i.e. Green Gram, Black gram, Pigeon Pea; Paddy, Maize, Soya bean, and Cotton, etc.

Rabi Crop

Lentil (Masoor), Mustard, and Rapeseed other than Boro Rice, Wheat and Gram.

Animal Husbandry

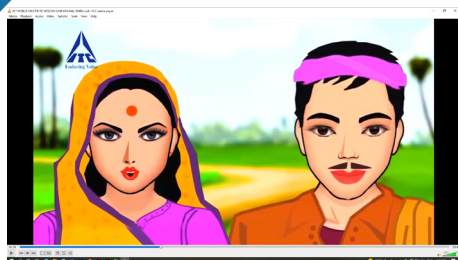
IEC Material on Care and Management of Milch Animals and other related activities was also prepared with the suggestions of Govt. Veterinary Doctors

The details of the number of farmers covered in the Kharif and Rabi seasons through WhatsApp groups are as follows:

Details of IEC material of Kharif and Rabi crops shared with farmers in 2020-21

States	No. of Districts covered	No. of Farmers Covered in Kharif Crop	No. of WhatsApp Groups Created in Kharif	No. of Farmers Covered in Rabi Crop	No. of WhatsApp Groups Created in Rabi
Odisha	2	36502	284	37262	284
Assam	5	49969	619	52866	647
Rajasthan	2	21653	119	23650	126
Maharashtra	1	15651	176	18478	203
Madhya Pradesh	5	97024	1723	97024	1723
Uttar Pradesh	5	71040	970	71040	970
Bihar	5	60853	603	60853	603
Jharkhand	2	19717	208	19717	208
Total	27	372409	4774	380890	4836

A total of **7,53,299 farmers** were trained on the Package of Practices of major Kharif and Rabi Crops via the digital platform WhatsApp. During the year, **9610 WhatsApp groups** were formed to impart online training to the farmers.



Animated Farming Videos

VIKSAT with the support of ITC developed Animated Aspirational Videos for farmers in Hindi, Marathi, Odiya and Assamese languages and shared with farmers on WhatsApp, In order to motivate them for adopting diversification and minimizing agricultural risk by availing benefits of Government subsidies i.e. Pradhan Mantri Fasal Bima Yojna etc.



SunehraKal Mobile App

A mobile-based application was developed for the planning of training and monitoring the progress of the MTs and VRPs under the project.

ITC and Government officials could get online monitoring details of all the training. The dashboard gives us clear cut graphical outcome of the particular training of the particular District for the given duration.

Impact Assessment

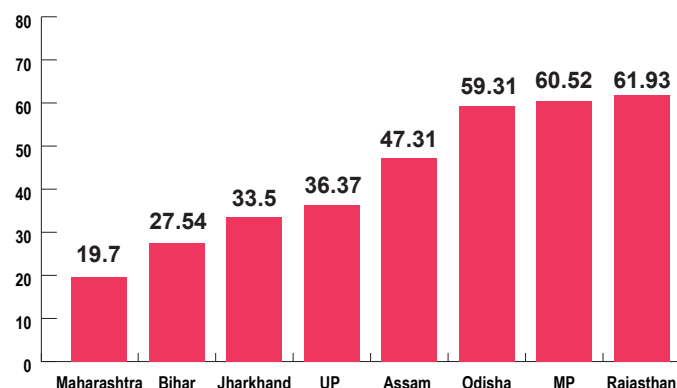
An Impact Assessment study of Digital Cascade Training in Kharif 2020 was carried out by VIKSAT. The study was undertaken in **8 states** and **25 districts** from **163 blocks** of **2123 villages** covering **9343 farmers** with the objective to understand the effectiveness of digital training modules in aspirational districts. In light of the ongoing Covid19 crisis telephonic scheduled Questionnaires google forms, and interviews were conducted, Moreover, forms for Government Officers and Partner NGOs were also prepared to derive inferences. The overall impact received based on the adoption is represented in the below-mentioned graph.

Overall Impact of Adoption

The overall impact of adopting PoP on major crops based on 03 parameters namely i) Improved Yield ii) Cost Reduction iii) Improved Income is as follows:

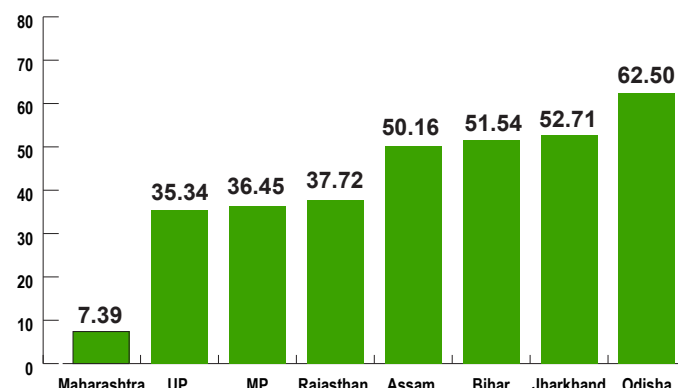
Total Improved Yield (41.69%)

Graph 1



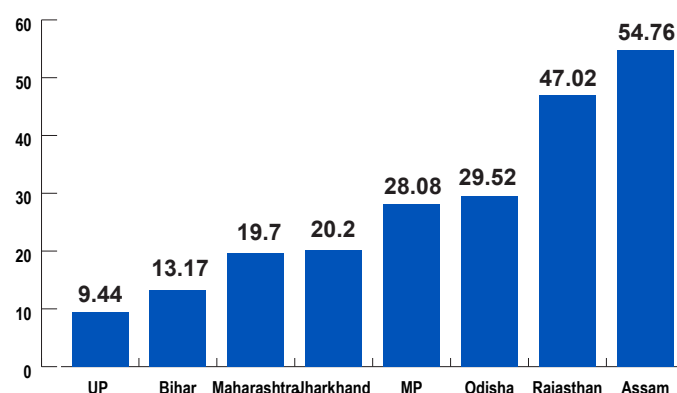
Total Cost Reduction (41.74%)

Graph 2



Total Improved Income (24.65%)

Graph 3



- Graph 1, mentioned above, represents that Rajasthan is having the highest improvement i.e. **61.93%** followed by MP (60.5%), Odisha (59.31%), Assam (47.31%), UP (36.37%), Jharkhand (33.5%), Bihar (27.54%). Whereas, Maharashtra has the least impact i.e. 19.7%.
- Graph 2, mentioned above, represents that Odisha is having the maximum cost reduction i.e. **62.50%** followed by Jharkhand (52.71%), Bihar (51.54%), Assam (50.16%), Rajasthan (37.72%), MP (36.45%), UP (35.34%). Whereas, Maharashtra has the least impact i.e. 7.39%.
- Graph 3, mentioned above, represents that Assam is having the maximum improved income i.e. **54.76%** followed by Rajasthan (47.02%), Odisha (29.52%), MP (28.08%), Jharkhand (20.2%), Maharashtra (19.7%), Bihar (13.17%). Whereas, UP has the least impact i.e. 9.44%.

6. Environment & Climate Change

Each one of us matters, has a role to play, and make a difference. Each one of us must take responsibility for our own lives, and above all, show respect and love for living things around us.



It aims to build the capacity of the community through Climate Change initiatives by promoting climate-resilient farming systems and diversification of livelihoods engaging communities for sustainable development and management of natural resources.

Climate Proofing Interventions

VIKSAT has initiated Climate Proofing interventions in the Khedbrahma block of Sabarkantha Districts of Gujarat to add value to its ongoing watershed development programme. The major goal is the “integration of such activities towards rehabilitation of degraded soils and building climate resilience by improving adaptive capacities of the communities in the proposed watershed project area”. Going beyond the usual soil and water conservation, this programme also focuses on developing drought-proofing, adaptation of climate smart agriculture practices, a shield against climate variability and unfavorable situations, as another concrete adaptation measure.

- During the year, the capacity building phase (CBP) was sanctioned in the **99.51 Ha.** area under Patadiya Watershed development programme supported by WDF- NABARD.
- Sanction of Implementation of Climate Proofing Intervention in Sembaliya Watershed Project in **5 villages** of Poshina Block of Sabarkantha District with the support of WDF- NABARD.



1184 person days generated during pandemic situation of COVID-19 in HUF project area.



2001 person days generated during pandemic situation of COVID-19 in CBP area.



Major Achievements of during the year

- The soil moisture conservation (SMC) work was done in **5 villages** of Danta block of Banaskantha district with the support of HUF.
- The farm bunding work of **1397.69 cmt.**, stone bunding work of **1249 cmt.** and **21 stone** outlets in a **79.78 Ha.** area benefitting **151 HHs** has been completed in project villages.

- The farm bunding work of **3049.66 cmt.**, stone outlet 79, stone bunding work of **1247.45 cmt.** and stone gully plugs 9 Nos were completed in CBP area of project villages.
- 350 no of horticulture plants, **1000** no of agave, and **6 Ha.** grass seeding were completed in CBP area of project villages.
- Under the horticulture plantation, the plants i.e. Pomegranate (200), Mango (100), and Sapota (50), and Bamboo (2000) were provided to farmers in CBP area of project villages.

Renewable Energy

- One **7.50 HP** solar power-based water pump was installed at Dhagdiya village of Danta block under the PMKUSHUM Scheme during the period. The pump has been utilized for lift irrigation scheme in a village. Another **35 application** of solar power base water pump were received under the PMKUSHUM Scheme during the period.
- **100 solar** light units were provided to **100 poor families** in the project villages to resolve the issue of electricity at night.

Climate Change Vulnerability Assessment

Climate Change Vulnerability Assessment of Patadiya watershed development project was done by Dr. Swati Smavatsar and Mr. Milind Pandit, Freelance Consultants. They have facilitated stakeholder analysis and conducted group exercises on different aspects of nature and natural resources and communities explaining their interpretation about the change in climate. The Detail project report on Patadiya watershed project was submitted to NABARD.

Hand Over of Climate Proofing Interventions Projects

VIKSAT organized a village level programme for the community /Gram Sabha, in the presence of DDM, NABARD, Sabarkantha, VIKSAT staff and Chairperson of VWCs, VWCs members, SHGs members and farmers for handing over the watershed and climate proofing implementation projects to the VWC Ratanpur and VWC Matarwada Watershed projects at Ratanpur and Ganer village on **February 3, 2021.**

World Environment Day Celebration

The theme for **World Environment Day 2020** (5th June) was, '**Time for Nature,**' with a focus on its role in providing the essential infrastructure that supports **life on Earth and human development.** During the year, **WED** was celebrated in VIKSAT with the support of HDFC and local community at Kheroj Field area.

7. Visitors



Mr. Sujit Kumar, Team Leader, CINI-TATA Trust visited on 20th Aug and 01st Dec 2020 at Kheroj Field Area



Mr. Karan Khara, TATA Trust visited on 26th February 2021 for Sustain Plus Program at Kheroj Field Area



Mrs. Vasundhara, AGM, Nabard visited on 20th December 2020 at Kheroj Field Area

8. Media Coverage



9. List of Abbreviations

AART	: Aravali Agriculture Resource and Training Centre	FPO	: Farmer Producer Organization	NGO	: Non Governmental Organization
ABF	: Axis Bank Foundation	GGRC	: Gujarat Green Revolution Company	NRM	: Natural Resource Management
AGM	: Annual General Meeting	GTDC	: Gujarat Tribal Development Corporation	PBR	: Peoples Biodiversity Register
APMC	: Agriculture Producer Market Committee	HH(s)	: Household(s)	PI	: People's Institutions
ATMA	: Agricultural Technology Management Agency	HKAPC	: Hatmati Kisan Agro Producer Company	PoP	: Package of Practices
AWP	: Annual Work Plan	HRDP	: Holistic Rural Development Programme	RWHS	: Roof-Top Water Harvesting Structure
BMC	: Biodiversity Management Committees	HUF	: Hindustan Unilever Foundation	SAFE	: Sabar AART Farmer Enterprise Producer Company Ltd.
BRLF	: Bharat Rural Livelihood Foundation	IEC	: Information, Education and Communication	SAKSHAM	: SAngathan KSHAmata Manch
BODs	: Board of Directors	IIFM	: Indian Institute of Forest Management	SDAU	: Sardarkrushingar Dantiwada Agricultural University
CBOs	: Community Based Organization	JFMC	: Joint Forest Management Committee	SHG(s)	: Self Help Group(s)
CDP	: Cluster Development Programme	KALP	: Khedut AART Livelihood Promoting Producer Company Ltd.	SMC	: School Management Committee
CEO	: Chief Executive Officer	KSDP	: Kutch Sustainable Development Project	SMC	: Soil and Moisture Conservation
CINI	: Collectives for Integrated Livelihood Initiatives	KALP	: Kutch Agriculture Livelihood Producer Company	SMI	: System of Maize Intensification
CLF	: Cluster Level Federation	KVK	: Krishi Vigyan Kendra	SWI	: System of Wheat Intensification
CRP(s)	: Community Resource Person(s)	KYC	: Know Your Customer	ToT	: Training of Trainers
CSR	: Corporate Social Responsibility	LIS	: Lift Irrigation Scheme	TGCS	: Tree Growers Cooperative Society
DDM	: District Development Managers	MCA	: Ministry of Corporate Affairs	VDC(s)	: Villages Development Committee(s)
DRDA	: District Rural Development Agency	MGNREGA	: Mahatma Gandhi National Rural Employment Guarantee Act.	VO	: Villages Organization
DSC	: Digital Signature Certificates	MT	: Master Trainer	VRP	: Villages Resource Person
DST	: Department of Science & Technology	MoEFCC	: Ministry of Environment, Forest and Climate Change	VWC(s)	: Villages Watershed Committee(s)
ERP(s)	: Expert Resource Persons	NABARD	: National Bank for Agriculture and Rural Development	WDF	: Watershed Development Fund
ELEQRT	: Enhancing Livelihoods and Education Quality for Rural Transformation	NABCONS	: NABARD Consultancy Services	WED	: World Environment Day
FAQ	: Fair Average Quality	NFD	: Nehru Foundation for Development	WRD	: Water Resource Department
FES	: Foundation for Ecological Security			UWM	: United Way of Mumbai
FFS(s)	: Farmer Field School(s)				

10. Acknowledgment

Major funding partners and collaborating agencies



Our Bankers

- State Bank of India
- Bank of Baroda
- Indian Overseas Bank
- Bank of India
- ICICI Bank Ltd.
- Kotak Mahindra Bank

Our Auditors

- Manubhai & Shah LLP**
Chartered Accountants, Ahmedabad
- Yogesh K Dave & Co.**
Chartered Accountants, Ahmedabad
- Sorab S. Engineer & Co.**
Chartered Accountants, Mumbai

11. Financial Highlights

Abridged Balance Sheet

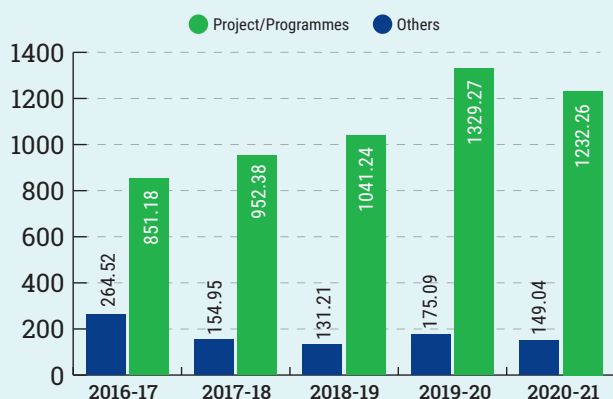
(Rs. In Lakh)

	31 March 2020	31 March 2021
Reserves & Other Earmarked Funds (Inclusive of accumulated surplus/deficit)	502.38	565.09
Balance of Project Grants	165.98	159.19
Sundries & Suppliers	89.35	60.21
Total	757.31	784.49
Assets	31 March 2020	31 March 2021
Immovable and Movable Properties	252.36	286.43
Investments in Approved Securities	5.00	0.00
Bank Account and Cash/FDR etc.	312.07	335.56
Advances and Other	188.28	162.50
Total	757.31	784.49

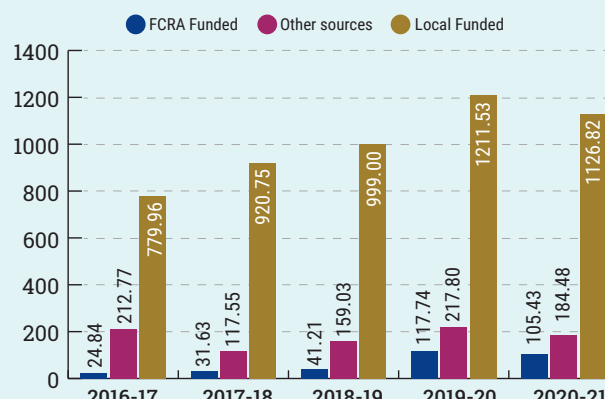
Abridged Income and Expenditure Account

Income	31 March 2020	31 March 2021
Projects and Programmes Income	1329.27	1232.26
Income from Other Sources	217.80	184.47
Total	1547.07	1416.73
Expenditure	31 March 2020	31 March 2021
Projects and Programmes Expenditure	1329.27	1232.26
Own Projects and Programmes Expenditure	0.00	19.41
Staff Salaries	140.02	126.97
Establishment and Administrative Expenditure	16.01	16.44
Amount transferred to other Earmarked Fund	19.06	5.63
Total	1504.36	1400.71
Surplus / Deficit	42.71	16.02
Total	1547.07	1416.73

Expenditure of the last 5 Years (Rs. in lakhs)



Source of Funds during last 5 years



12. Council of Management

(As on 31 March 2021)

Chairperson

Shri Kartikeya V Sarabhai

Founder Director
Centre for Environment Education, Thaltej Tekra, Ahmedabad - 380054

Members

Shri Pradeep Khanna

PCCF (Retd.), Gujarat Forest Department
Gandhinagar 382020

Prof. Deepti Bhatnagar

Organizational Behaviour
Indian Institute of Management
Vastrapur, Ahmedabad - 380015

Prof. Indira Hirway

Director
Center for Development Alternatives
Ahmedabad - 380054

Dr. Omkar Jani

Principal Research Scientist
Gujarat Energy Research & Management
Institute (GERMI), Gandhinagar - 382007

Shri Ratan C. Jain

Advisor (Groundwater)
Gujarat Water Resource Development
Corporation Ltd., Ahmedabad - 380009

Shri T K Balappan

Secretary
Nehru Foundation for Development
Thaltej Tekra, Ahmedabad - 380054

Dr. D.V. Rangnekar

BAIF (VP Retd.) / Advisor MP Rural
Livelihood Programme
Vastrapur, Ahmedabad - 380015

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Ashram Road, Ahmedabad - 380 013

Dr. Tushaar Shah

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"Jal Tarang", Near Smruthi Apartment,
Mangalpura, Anand 388001

Shri Himanshu Upadhyay

Corporate communication & CSR Expert
Dr. Vikram Sarabhai Marg
Ahmedabad - 380015

Shri S. C. Sharma

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Road, Ahmedabad - 380054

Shri Dilip Surkar

Director
VIKSAT, Nehru Foundation for Development
Thaltej Tekra, Ahmedabad - 380054

VIKSAT Offices

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VIKSAT	Nehru Foundation for Development Thaltej Tekra, Ahmedabad - 380054	Ahmedabad	09499756360	contact.viksats@gmail.com

VIKSAT Field Office

KHEROJ	Lambadiya Road, At & Post: Kheroj, Ta:Khedbrahma, Sabarkantha - 383270	Sabarkantha	09499846360 09427038730	viksat.kheroj@gmail.com
BHILODA	Opp. N.R.A. Primary School, Govindnagar, Opp. Opp. S.T. Bus Stop, Bhiloda - 383245	Aravalli	09499756360 09426341935	viksat.bhiloda@gmail.com
KUKMA	Near BMCB City, Kukma Lakhond Road, Kukma, Bhuj - 370105	Kachchh	09499756360 09925041750	viksat.bhuj@gmail.com
SATLASANA	Nr. Old Water Tank, Limdi Chowk, Satlasana - 384330	Mehsana	09499756360 06351262514	viksat.satlasana@gmail.com
RADHANPUR	C/o Radheshyambhai Sadhu, 2, Shivshakti Society, Masali Road, Radhanpur - 385340	Patan	09499756360 06354826203	viksat.santalpur@gmail.com
VELAVADAR	At & Po. Velavadar, Ta. & Dist. Bhavnagar - 364313	Bhavnagar	09499756360 09626341935	jalabhai.viksats@gmail.com



VIKSAT was set up in 1977 as an activity of Nehru Foundation for Development (NFD), to take proactive steps to conserve environment. VIKSAT has been working with communities in their local regions towards developing models of sustainable natural resource management, imparting skills related to institution building, resource generation, management and networking. VIKSAT works in five thrust areas, namely, Land & Water Management, WaSH (Water Sanitation and Hygiene), Sustainable Livelihoods, Institution & Capacity Building, and Environment & Climate Change.

VIKSAT has its head office in Ahmedabad, and six field offices working primarily in seven Districts of Gujarat, viz. Kheroj (Khedbrahma) in Sabarkantha & Banaskantha, Bhiloda in Aravalli, Satlasana in Mehsana, Kukma (Bhuj) in Kutch, Radhanpur in Patan Districts and Velavadar in Bhavnagar. VIKSAT has expanded its reach to cover other states of India.

www.viksats.org

VIKSAT

Vikram Sarabhai Centre for Development Interaction

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