

TOWARDS A
SUSTAINABLE *Future*

Annual Report
2019-20



VIKSAT

Vikram Sarabhai Centre for
Development Interaction



Dr. Vikram Sarabhai
Centenary Celebrations



Dr. Vikram Sarabhai (12 Aug 1919 - 30 Dec 1971) was a great scientist, who dedicated his life to nation-building. He established several institutions of eminence, working on a wide range of areas. He fathered India's Space Program, contributed to the development India's atomic energy program and seeded the Electronics development in India. He was honoured with Padma Bhushan in 1966 and Padma Vibhushan in 1972.

In 1966, Dr. Sarabhai founded NFD, a charitable trust dedicated to rural development and environment awareness. Its main aim was to promote basic studying and thinking on current problems of development at individual and social level. Vikram Sarabhai Centre for Development Interaction (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 Peoples' 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 pays homage to Dr. Vikram Sarabhai on the occasion of his Birth Centenary.



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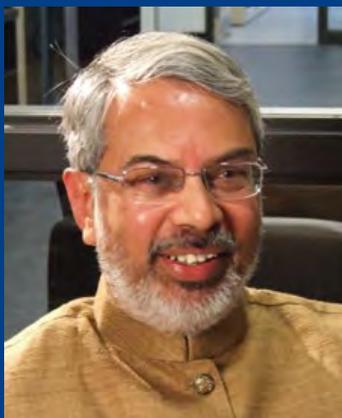
Vikram Sarabhai Centre for Development Interaction

CONTENT

• Chairperson's Message.....	01
• Director's Message - Dy. Director's Message.....	02
1. Introduction.....	03
2. Land and Water Management.....	05
3. Water, Sanitation & Hygiene (WASH).....	14
4. Sustainable Livelihoods.....	17
5. Institutions and Capacity Building.....	22
6. Environment and Climate Change.....	27
7. Visitors.....	27
8. Media Coverage.....	28
9. List of Abbreviations.....	28
10. Acknowledgment.....	29
11. Financial Highlights.....	30
12. Council of Management.....	31



Chairperson's Message



In wake of the COVID-19 pandemic, millions of farmers of India are facing challenges of sowing, harvesting, taking produce to agriculture markets and getting agricultural labour due to pandemic situation. VIKSAT has managed to rise up to the occasion and made stronger efforts to mitigate the current situation and bring new learning opportunities to take the work of dissemination of knowledge to another level and increase livelihood possibilities.

Dr. Vikram Sarabhai's Birth Centenary was celebrated by the various organizations that were established as a consequence of his vision and efforts. VIKSAT is working on Dr. Sarabhai's belief that "A leader has to be cultivator rather than a manufacturer. He has to provide the soil and the overall climate and the environment in which the seed can grow". I am happy that VIKSAT is working from initiation on environment aspects to achieving sustainable livelihoods and natural resource management through people's institutions. VIKSAT has worked with more than 12000 women members who are involved in the SHGs promoted by VIKSAT as primary institutions and these groups, at the village level, form the Village Organizations (Vos) and federated at women lead FPOs under Lakpati Kisan programme. The capacity building and strengthening of these women members helps to create new leaders in the project area.

VIKSAT and ITC has extended the 'Sunhera Kal' programme in Odisha state covering total 8 states and 27 aspiration Districts of across the country with respect to improving agriculture practices for most of the major crops of those aspirational Districts. It has brought out some inspiring results. These initiatives have been in convergence with the goal to double farmers' income in the coming years. VIKSAT's initiatives with partner agencies have been enabling farmers to adopt suitable practices to improve agriculture, save more and increase income by reducing the cost of cultivation.

I am glad that VIKSAT has responded strategically, timely and in an integrated manner, striving to address issues like climate change, behaviour change in water use, poor linkages with markets and financial services, sustainable service model of people institutions and vaccination of small ruminants in the project area.

VIKSAT initiated the 'Transforming Water security and Agriculture potential in 53 villages of Sabarkantha and Banaskantha Districts of Gujarat' with support from Hindustan Unilever Foundation (HUF). I look forward to VIKSAT efforts in the future towards behaviour change in water use for achieving the water security and agriculture potential in tribal area, which is need of hour.

We are grateful to have received generous financial, technical and hand-holding support from our partners and funders. It is imperative that the outcome of the various programmes are being documented, which will serve as a useful resource in process of replication and scaling up.

I would like to acknowledge the role of the Council of Management in guiding this vibrant institution and thank all the members of the council. My congratulations to the Director, Dy. Director and entire team for the achievements made by organization during this year. I appreciate their dedication and hard work, which has enabled VIKSAT to achieve greater height of excellence and social relevance, while furthering its objectives.

My best wishes to the team of VIKSAT to put their best foot forward, as always, for times to come.

Kartikeya V. Sarabhai
Chairperson
VIKSAT Council of Management

Director's Message



The year 2019-2020 saw new opportunities of expansion of existing ones and introduction of new projects. VIKSAT continued its focus on promoting and capacity building of the people's institutions, issues of conservation-oriented livelihood options, mitigation and adaptations measures for improving quality of life in the project villages.

Before the COVID-19 lockdown started in March 2020, we were able to complete the majority of project activities. However, the planning for new financial year became difficult due to the uncertainty brought in by the pandemic. We are putting our best efforts by adapting the change in scenario after the post lockdown phase.

VIKSAT took new initiatives of implementation of "Transforming Water Security and Agriculture Potential for Small Tribal Farmers in Dry - Arid Districts of Northern Gujarat" with the support of HUF in 53 villages of Sabarkantha and Banaskantha Districts of Gujarat for five years from January 2019 and "Enhancing Livelihoods and Education Quality for Rural Transformation (ELEQRT)" with the support of HDFC Bank and CInI in 10 villages of Sabarkantha District from January 2019 for one year.

VIKSAT has extended the capacity building of Master Trainers (MT) in two aspirational Districts from Odisha cumulative to 27 aspirational Districts of eight identified states of India under the NITI Aayog and ITC Mission Sunhera Kal Project. VIKSAT's initiative Lakhpatti Kisan and Wadi programmes are helping women farmers have become more empowered through strengthening of people institutions, livelihoods and enhancing income from high value crops for improving their socio- economic standing and providing them with better source of income. VIKSAT programmes helps to more than 40% (2457) households become Lakhpatti farmers in tribal area.

We would like to thank all the partners, especially for the support received from TATA Trusts, BRLF, Axis bank Foundation, HDFC Bank through CInI, DST, Govt of India, NABARD, John Deere Foundation, ITC, VESTAS, WIN Foundation and HUF for aiding our efforts with their funding support, cooperation and guidance.

I would like to extend my gratitude to our Chairperson Shri Kartikeya Sarabhai and all the Council of Management members for their guidance, mentoring and encouragement. I acknowledge the role of Dy. Director and dedicated staff for the achievements made by the organization. With dedication and passion, we shall continue our efforts and interventions to improve quality of life through sustainable management of the natural resources.

Dilip Surkar
Director

Dy. Director's Message



We are happy to publish Annual Report 2019-20, highlighting the activities undertaken by VIKSAT. This year, we continued to expand and deepen our rural livelihoods works, covering 23174 households of 106 Villages who were supported through various livelihoods activities. "Transforming Water Security and Agriculture Potential for small farmers' project was initiated in 53 Villages covering 12000 HH over five years.

VIKSAT has developed IEC material of PoP on 15 crops and conducted 27 District level Master Trainers' Training programmes. 864 of MTs and government officials participated under the MISSION SUNEHRA KAL programme. These MTs would train 5187 Villages Resource Person (VRPs) who further trained 705840 farmers.

VIKSAT scaled up the implementation of demonstration on System of Wheat Intensification (SWI), System of Maize Intensification (SMI) and Vermicompost in 12 project Villages of Bhiloda and Vijaynager Blocks of Gujarat under the DST core support programme. 3 Skill Building Programmes on Gunthan work for 80 local female youth, 5 micro enterprises and 10 group level micro enterprise of vermicompost were done to promote entrepreneurship and self-employment for income generation. In 25 primary schools VIKSAT improved infrastructure and environment which benefited 4131 students and their teachers.

VIKSAT promoted SAFE and KALP producer companies procured 31 tonnes of agriculture produce and processed of 8.2 tonnes Urad dal. The 14 small lift irrigation schemes benefited 347 HHs bringing additional 193 acre under irrigation. I am really thankful to all funding partners who have generously supported us in empowering rural communities.

I express my sincere gratitude to our Chairperson, Council of Management, Director, partners, supporters, well-wishers, mentors, local communities, networks and our dedicated colleagues for their constant support and guidance.

Mahesh Patel
Dy. Director

1. Introduction

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.

Vikram Sarabhai Centre for Development Interaction (VIKSAT) was set up in 1977 by Nehru Foundation for Development (NFD). 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 head concern then, VIKSAT strives to meet its purpose, which are to: 1. Promote interactions between individuals and organizations for environmental protection, and to 2. Endeavour to build Peoples' Institutions (PI) for sustainable development and management of natural resources.

Over the year, the organization aimed at reaching the primary stakeholders across various thematic areas, through a novel approach of decisive participation of the communities. Here some of the key undertakings at our field offices include innovations in water harvesting, joint forest management, biodiversity conservation, sustainable agriculture, climate-proofing intervention project which included interventions such as installation of solar pumps, drip irrigation system, mulching practice in crop cultivation, soil and water conservation, and various demonstrations to build climate resilience capacity of the community. This also included some level of forward and backward linkages via Farmer Producer Company (FPC).

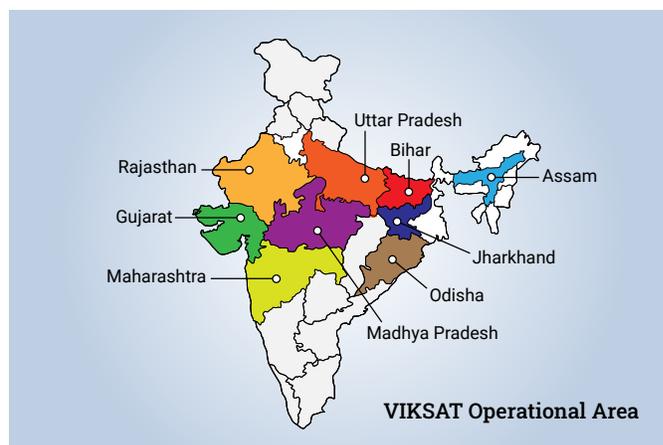
VIKSAT inclined itself to work towards adaptive research projects related to integrated farming system and digital literacy for better subsistence for focused tribal Districts of Gujarat, India. A network of NGOs partner and initiation of capacity building through cascade model of training to execute these programmes helmed its achievements.

Strategy and Thematic intervention

Addressing the issues pertaining to an efficient natural resource management system, VIKSAT focuses on five major thrust areas, namely Land & Water, WaSH (Water Sanitation and Hygiene) Sustainable Livelihoods, Institution & Capacity Building, and Environment & Climate Change

VIKSAT has directly and indirectly touched the lives of people by its initiatives. Presently VIKSAT is directly working in 6 Districts of Gujarat and 27 aspirational Districts of 8 states

of India as knowledge partner under ITC and NITI Aayog and has directly affected the lives of 25,000 plus households through facilitation of PIs formed at the village level. Along with the direct activities, VIKSAT has also covered more than twelve Lakh households indirectly through capacity building of various stakeholders. These initiatives have also been carried out strategically with a purpose to increase the organization's capacity to function independently, and with minimum external support.



With its initiatives, the organization has been successfully changing the forests spread over hundred villages across the Bhiloda, Satlasana and Khavda Blocks. This is through its historic Joint Forest Management (JFM) programme that ensures the protection of forests, and affirmation of economic activities from them, in the state of Gujarat.

Apart from its initiatives under the Joint Forest Management programmes, VIKSAT has also been working on the Land and water management initiatives. Thus, it has been working towards the goal of nutrition security by its efforts to encourage sustainable productivity enhancement and drinking water availability.

As one of its key strategy, the organization has been working at grass-root level with the regional communities, to develop models which ensure sustainability of livelihoods through natural resource management.

The core strategy has been to emphasis on people's participation via PIs, in the initiatives for sustainable development and natural resource management. And that, it cuts across all the thematic areas of interventions, while nurturing the same with capacity building.

VIKSAT as a Resource Centre

VIKSAT has positioned itself as a Resource Centre by partnering with various government and non-government organizations, and communities, etc for technical, social and institutional aspects of natural resource management. This dissemination of knowledge further include publications, newsletters, and participation in public forums by the organization. Moreover, it provides a learning platform for other agencies including educational institutions; thus facilitating the sharing of experiences and best practices.

VIKSAT at the grassroots

Over the last four decades, VIKSAT has progressed from being a platform for intellectual discourse, to an agency advocating for people's rights over the forests, it produce, and ultimately providing protection to the forests. It has gained grounds in research, conducting seminars and workshops on various themes of forestry programme. During the early nineties, VIKSAT set the benchmark for institution building and community mobilization. The Tree Growers Cooperative Societies (TGCSs) developed in Kubada village became a model for development practitioners.

In addition to this, the educational material on drought and land degradation that VIKSAT specially designed in the year 1992, received high acclaim, and thus become a document of significance. This communication benchmark established the foundation for VIKSAT to take active interest in peoples' institution and capacity building for efficient and sustainable management of groundwater, physical interventions for soil treatment, management of land, and conservation of water and farmer producer organization.

VIKSAT initiated developing acumen in structuring women into SHGs, and developed rapport with local communities to form Village Organizations (VOs), Farmers' Clubs (FCs),

Village Watershed Committee (VWCs), Village Development Committee (VDCs) and Farmer Producer Organizations (FPOs) for the same.

The pioneering work of institution building continued during the response of the organization to address natural calamities like drought and earthquake. Capacity building of the PIs for efficient and sustainable management of groundwater, physical interventions for soil treatment, land management, water conservation and farmer producer organization were initiated by developing rapport with the local communities. By the turn of the millennium, on one hand, VIKSAT was developing acumen in planning and installing Rain Water Harvesting Systems in urban locales, while on the other, the need to address issues related to sustaining NRM based livelihoods was increasingly gaining grounds in the rural areas.

VIKSAT had already organized women into SHGs, operating revolving funds and financing micro-enterprises in the villages. In the new millennium years, the organization had started a more structured system of facilitating access to livelihood based finance through peoples' institutions like SHGs, Village Organizations (VOs), Farmers' Clubs (FCs), Village Watershed Committee (VWCs), Village Development Committee (VDCs) and Farmer producer organizations (FPOs).

Emphasizing more on the Farmer Producer Organization (FPOs) and Farmer Producer Companies (FPCs), VIKSAT is targeting input supply, establishing seed division, channelling a strengthened network of output marketing, its process, aiding in training, etc. to be focused under sustainable development.

As a recognized nodal agency for the National Environment Awareness Campaign (NEAC) by the Ministry of Environment, Forest and Climate Change (MoEFF&CC) and with the ever increasing challenges faced in sustaining the natural resources and the livelihoods; VIKSAT is constantly in the process of change, adopting the strategies and interventions to help the communities to help themselves in the best possible manner.



2. Land and Water Management

Lakhpati Kisan

Lakhpati Kisan programme aims to ensure that 12,000 households are irrevocably brought out of poverty with increased life choices, and earn an income of more than One Lakh Rupees (Lakhpati) annually.

This is done through building community institutions, improved agriculture development, water resource development and optimum utilization of the available natural resources in 53 project villages of Danta Block of Banaskantha, and Khedbramha and Poshina Blocks of Sabarkantha Districts with the support of TATA Trusts, Collectives for Integrated Livelihood Initiatives (CInI), Hindustan Unilever Foundation (HUF), Axis Bank Foundation (ABF) and HDFC Bank.

Improved Agriculture Activities

Promotion of good agricultural practices in crops for enhanced productivity and income. The crop basket across the project villages included: the major Kharif crops like Maize (Mixed with other crop such as pigeon pea and black gram), Maize (Mixed with cotton), Cotton, Cotton seed plot, Vegetable, trellis etc. with **8,260** HHs; Rabi crops like Wheat, Castor, Maize and Popcorn Maize, Wheat seed plot, vegetables etc. with **6,799** HHs; and Summer crops like Green gram, Vegetable like Cluster bean, Okra, Watermelon, etc. with **1,246** HHs.

Training Programmes and Exposure Visits :

S.N	Title	CDP		Lakhpati Kisan	
		No.	Participants	No.	Participants
1	Pre-season training on POP of Kharif, Rabi and Summer agriculture crops for CRP and Staff	4	125	3	83
3	Training on POP of agriculture interventions for SHG leaders.	35	935	18	434
4	Training on Kharif, Rabi and Summer season crops for SHG members	239	7776	124	2998
5	Awareness campaign on FPO and World Environment Day	18	1694	78	265
6	Exposure visits on high value agriculture crop, collective marketing for SHG and CRP.	6	450	8	279
7	Farmer Field School (FFS)	304	8589	203	5373

Training programmes on technical knowledge on land preparation, seed selection, seed treatment, seed sowing, spacing, fertiliser management, weeding, irrigation, insect-pest and disease management etc were discussed.



In the FFS programme, follow up of basal dose of fertilizer application, maintenance of row to row and plant to plant spacing, the practical knowledge on inter-cultural, weeding, bund formation, application of insecticide, application of first dose of urea, supportive irrigation (If required), application of second dose of urea, insect/pest/diseases and harvesting and precaution of post harvesting, storage for seeds, grains etc. was shared by VIKSAT programme staff.



Under the Hi-Tech nursery, 6 nursery entrepreneurs raised 6,00,208 saplings of vegetables (Chilli, Brinjal and tomato) in the Hi Tech and net-shed nurseries in Kharif season, while the nursery entrepreneurs raised 6,31,840 saplings of chilly, brinjal, tomato, marigold, watermelon, muskmelon, etc. in the nurseries in Rabi and Summer season.



External Resource Persons (ERPs), VIKSAT Programme Staff and Community Resource Person (CRPs) visited Farmer Fields to provide hand holding support, technical guidance on pest management and package of practices (PoP) on Kharif, Rabi agriculture and vegetable crops like Chilly, Tomato and Hi-Tech nursery, etc. in the programme area. Dr. Patel, an ERP has provided technical guidance on pest management and PoP on agriculture and vegetable crops. The demonstration on yield estimation in wheat crop was also given to individual CRP and Programme Staff.



Income enhancement in Cluster Development Programme :



Irrigation Resources' Development

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

During the year, 14 lift irrigations were installed in project villages. Around 347 HHs and 192.83-acre of area were

benefited from the schemes with the support of ABF, HUF, HDFC and CInI.



Under ELEQRT project, 2 Check dam and 1 Nala plug were constructed in Choliya Village. It has helped to recharge nearby Wells. Apart from that, 28 defunct hand pumps were repaired in Tebda, Umbora and Mahudi villages with the support of HDFC and CInI. The repairing of hand pump helped more than 700 families in Summer season.



Renovation of sanitation related infrastructure was done in 7 schools namely Mahudi, Tebdi, Umbora, Tabada, Changod, Navamota & Chhochhar villages. Also, an additional drinking water storage facility has been created with the capacity of 11,800 Liter to ensure the availability of drinking water, and sanitation within the premises of a primary school of Navamota, Changod and Tebda villages with the support of HDFC and CInI. It has benefited more than 1000 students in schools.



Under ELEQRT project, 20 drip irrigation systems were installed in 20 acre covering 20 farmers with the support of HDFC and CInI. It has helped significantly in saving water and labour cost of irrigating fields.

Under the initiative of 'Transforming water security and agriculture potential for small tribal farmers' in dry-arid Districts of Northern Gujarat' project supported by Hindustan Unilever Foundation (HUF).

A total of 21 awareness training programmes on Water Literacy and Package of Practices (PoP) of major crops for water saving practices were conducted in project villages in which 823 farmers had participated.

The data collection of Kharif 2019 crops and analysis on water saving and productivity increase has been completed for 52 villages of the project area.

24 Groundwater Game Kit were demonstrated in project villages to make awareness among the farmers on water governance and management with the support of HUF. In these programme, a total of 781 farmers including 112 Male and 669 females participated. The participants were made to play different games from the game kit to understand water

governance and management. The discussion on water availability, water trend analysis, methods to increase water productivity were discussed with farmers. The games also helped in decision making for crop selection, and benefits of water- intensive crops.



29 campaign awareness meeting on water literacy, and on the PoP of major crops for water saving practices like drip irrigation and mulching were conducted in project villages. Programme staff emphasis on status of water resources, saving technology and discuss the current use of irrigation in major crops. In which, total 971 including 148 male and 823 females participated.

Dungra upar Dungli (Onions cultivation on Mountain)

Choliya village is tribal dominated population of Poshina Block of Sabarkantha District. The socio-economic conditions of people are marginal to poor. The region is characterized by semi-arid climate and average annual rainfall is around 710.16 mm, which is uneven and highly erratic in nature. The topography of village is undulating, sloppy and have limited access to irrigation who have fields near to bank of Sabarmati river. Agriculture is major livelihood followed by Animal Husbandry and agriculture labour. The major crops that are grown in the area are cereals (Maize) and pulses (Pigeon Pea and Black Gram). Those who have access to some irrigation facilities have cotton as the crop grown. The sum of families in Village are migrating during the Rabi and Summer months in the neighbouring Districts for agriculture labour.

VIKSAT has implemented Lift Irrigation scheme which helps to lift water from the well of bank of Sabarmati river with the support of HDFC and CInI. The lift irrigation scheme helps to create 17.50 acres of area under irrigation and covering 30 women members.

One of beneficiary of Ramdev LIS, Hansaben Rewabhai Khokhariya is a member of Ramdev Self Help Group. She has 2 acre of land as sole source of livelihood. The lift irrigation scheme helps to irrigate her land and gave opportunity to cultivate Onion in 0.30 Ha (0.75 acre) and Wheat in remaining 0.28 ha for first time in Rabi season.

Hansaben said that "my farm is on such a high altitude due to this I was able to cultivate only rainfed crop and to get water on hilly area was distance dream for me. The lift irrigation scheme made possible water to reach on hilly area and cultivation in all three seasons. First time, I sown Dungra Upar Dungli (Onion cultivation on Hilly land) and wheat in Rabi season and Fodder and Maize in Summer season".

The availability of water for irrigation helps all members to grow crops in 17.50 acres of land. The farmers have cultivated vegetable and fodder which helps to get doubling the income. The seven women members of Ramdev SHG have brought Buffalo and Cow from loan support of SHG revolving fund. It gave additional income from milk supply to dairy in villages.



The details of Trainings and Exposure visits conducted under Transforming Water Security & Agriculture Potential Programme are as follows:

S No	Title of the Training and Exposure visits	No.	Participants
1	Orientation training programme on transforming water security and agriculture potential for CRPs and Programme staff	1	56
2	Training programme on water saving literacy and measurement for staff and CRPs	2	88
3	Training programme on towards improving water governance using various tools & technologies for Community Resource Person and Programme staffs conducted by FES.	1	57
4	Exposure visit on crop water budgeting and demand side water savings for programme staffs at DSC, Himmatnagar.	1	16
5	Training programmes on operation and maintenance of LIS	2	54



Under ELEQRT project, 100 solar-light units were provided to 100 families in project villages with the support of HDFC and CInI. The solar light provided to families that do not have access to electricity, and have been facing problem at night time.



Vegetable is key to daily income for household

Gamar Manjulaben Navjibhai is living with her husband and 5 children in Panthal village of Khedbrahma Block of Sabarkantha District. She has 2 acre of land, out of that 1 acre land is irrigated and remaining one acre is for rainfed livelihood. In the farm land, She cultivate cotton seed plot, Pigeon pea, Maize, Wheat etc. She joined Chamunda SHG formed a year ago, under Lakhpati Kisan Programme supported by Axis Bank Foundation, CInI and TATA Trusts .

She participated in meetings, trainings, exposures etc and motivated for cultivate vegetable crops. In last year 2018-19, She cultivated cotton seed plot in 5.5 Guntha (0.055Ha) and got production of 60 kg. After selling the produce, she earned Rs. 27000/-.

Current year in 2019-20, She has cultivated Tomato vegetable in 5.5 guntha land and received production of 2500 kg. from crop. The tomato produce was sold in front of farm and nearby market and earned Rs. 40000/-. It gives her nearly double the income within 2-4 months. Manjulaben and her

husband are quite happy by earning additional income of Rs. 13000/- through growing of tomato. She said that vegetable cultivation gives cash on daily basis as compare to money coming after a year from cotton seed.



Small Ruminants Development

VIKSAT initiated small ruminants programme to support livelihood of tribal families who have lesser agricultural land-holding in the project villages. The programme started with 6000 HHs of Animal Husbandry and Goat-rearing families.

12 Pashu-Mitra (Para- workers) acts as veterinary staff of Village organizations and provide services like vaccination, dipping, castration, feed management etc., in the project villages.

Under the Dairy Development, 357 Buffaloes were given to livestock rearers in project villages with the support of Sabar Dairy and Tribal Development Department in project area. VIKSAT has provided Rs. 10,000 to twenty programme beneficiaries of Hingatiya villages, and Rs.25,000 to twelve programme beneficiaries of Panchmahuda villages for purchasing buffaloes with support of ABF and CInI. The farmers will sell milk to dairy cooperatives, and repay the loan as well as generate income from cattle-rearing and dairy supplies, and get additional support to livelihood.



23 Animal Health Camps had been organized in all project villages with the support of Animal Husbandry Department, HDFC, ABF and CInI. In these camps, total 6,027 including 2,359 big cattles and 3,668 goats of 1,730 beneficiaries participated. Under the camps, cattle and goats were treated by dipping for the control of external parasite control like sucking lice, louse, fleas, mites etc., deworming, infertility and FMD vaccination were done.



57 vaccination camps for deworming, dipping, vaccination and treatment for goat with support of HDFC, ABF and CInI

were organized in project villages. In these camps, a total of 13,482 goats from 2,566 beneficiaries from project villages participated. Under the camps, dipping, the treatment for the control of external parasite like sucking lice, louse, fleas, mites etc., deworming and PPR vaccination were done.



Total 15 Travis were installed at common places of ten project villages with the support of HDFC and CInI. The installation of Travis is helpful during the treatment of animals during camps in the villages.

During the year, 5 Milk Procurement Centre has been opened in Dantiya, Ambasar, Sembaliya, Bandiyana Talav and Chhochar villages with the support of Sabar Dairy, TATA Trusts and CInI. VIKSAT has promoted Milk Co-operative in Tebda villages with the support of Sabar Dairy. It was started on the 21st January 2020 to collect 100 Liter per day of milk and supply to Sabar Dairy to increase the income..

Under ELEQRT project, 9 Dairy Cooperative were provided instruments like Milking Machine, Weighing Balance, EPC Battery, Computer, Analyzer, Vibrator, Printer, etc. It was provided to the milk cooperatives of 9 villages for improving the facilities. It will help to bring in more transparency in activities with the support of HDFC and CInI.



For the first time, 10 SHGs got resources to stabilize micro-enterprise of vermicompost at 10 project villages with the support of HDFC and CInI. Each group has earned the income of Rs. 10,000-15,000 by selling of vermicompost, and vermin in addition to improve soil health and crop yield.



Trainings and exposures for Capacity building regarding animal husbandry:					
S. No	Title of the Training	No.	HRDP	No.	Lakhpati Kisan
		Participants		Participants	
1	Training programme on livestock management for staff, CRP and SHG leaders	7	225	8	252
2	Training programmes on livestock management for SHG members	18	579	20	793
3	Training programmes on cattle shade and feed management for SHG members.	3	86	28	817
4	Training cum Exposure visit on Dairy Development and Management, for livestock rearer and CRP at Sabar dairy	-	-	4	166
5	Training Programme on small ruminants for farmer, Pashu-Sakhi and CRP	-	-	1	35
6	Orientation training on animal treatment and care was conducted on for SHGs, Members of Milk co-operative, rearer.	2	27	1	35

During the year more than 5 HHs have been supported for development of existing small enterprise by improving the equipment and adding facility through sieving machine, digital weighing machine, handcart for selling of vegetables etc. They were supported under Micro- enterprise development with the support of HDFC and CInI. The beneficiaries got an additional income of Rs. 1,000-1,500 per month from the enterprise, and it reduced the drudgery of women.

51 sirohi buck were given to the 51 farmer in 10 villages for breed improvement with the support of HDFC and CInI.

59 vermicompost units have been installed at individual farmer's household in project illages with the support of HUF. The main objective has been to supplement the organic manure in land, and to increase the soil fertility. Training programmes on vermicompost were conducted before installation in the project villages.

New Entrepreneur for Vegetable and Azolla cultivation

Raniumbari village is situated on bank of Sabarmati river in Danta Block of Banaskantha District. Kodarvi Chandrikaben is living with her husband Navjibhai and 2 daughters. She has only 0.15 Ha. irrigated land. She joined Dhannirankar SHG formed a year ago, under Lakhpati Kisan programme Supported by Axis Bank Foundation, CInI and TATA Trusts .

Before joining the programme, She was doing the traditional farming by cultivating Maize, Cotton seed plot in Kharif and wheat in Rabi seasons. After her involvement in the programme, first time she has cultivated vegetable crop of chilly (0.05 Ha.) in Kharif and onion (0.05 Ha.) and fodder (0.05 ha.) in Rabi season. She has earned Rs. 15000 from selling of chilly in local market and approx. Rs. 20000 from onion crop. She has also established Azolla mother unit and it will help to supplement feed to animals (2 cow, 2 buffalo and 4 goat). It gives additional income of Rs. 2000-3000 per month income through increase of fat and milk production after feeding Azolla to animals.





24 Azolla Mother Units and 166 Individual Units for raising of Azolla were constructed in project villages with the support of ABF, HDFC and CInI. It will help in supplying the quality Azolla seed to individuals to set up Azolla unit and to create additional income source locally for the farmers, youth and women. The Azolla will help to supplement fodder to goats and cattle so as to increase milk and fat in the yield.

Results of breed improvement

VIKSAT had provided 20 bucks of Sirohi breed to 20 beneficiaries under breed improvement programme in 2018-19. The indigenous bucks in the villages were sold in Mela and nearby markets to avoid the non-descript goat breed.

Thus, animal breeding has started and 6 beneficiaries goats have given birth to twin kids of Sirohi buck.



Hiraben: Leap Towards Success

Hiraben Bachubhai Begadiya is a marginal farmer from Changod village of Khedbrahma Block, 3 acres of land is sole source of livelihood. She is widow and living with her seven children. She has shown interest and involved in the SHGs and agriculture development activities under Cluster Development Programme implemented by VIKSAT with the support of BRLF, TATA Trusts and CInI. Here, following regional tradition of rainfed farming, she use to cultivate Maize mix cropping with black gram, pigeon pea and cotton crop in her field.

She cultivated vegetables like chilly and tomato and got income of Rs. 40000 from selling of produce within four-five months in 2017-18. After that, she felt that vegetable cultivation in all season require assured irrigation. She took a loan of Rs. 30000 from SHG and drilled new bore well in her field. The electricity connection for borewell was concern for her.

The 5 HP solar power pump was installed on borewell with

the support of IGWDP – NABARD under climate proofing interventions in 2018-19. Hiraben said that " Solar power pump gives me an uninterrupted and free of cost energy for withdrawal of water from borewell and irrigating crops and provide cumulative earnings of more than 2 lakh from agriculture and small ruminants.

She is a role model for women approaching towards success by following step by step development path.



Vestas Kachchh Vikas Karyakram (VKVK)

VIKSAT has extended its programme activities with Vestas Kachchh Vikas Karyakram in 13 villages of Bhuj and Mandvi Blocks of Kachchh District with the support of Vestas (Vestas Wind Technology India Pvt. Ltd). The project area covers more than 2,551 households with a total population of 12,423.

VIKSAT has addressed the area specific needs in the project villages based on the need assessment survey shared by Vestas. The planning and designing of the activities has been as per the need of the area. Also, there has been the involvement of the community and School Management Committee in every stage of the development process. This was central to the programme implementation.



Physical Environment Improvement of schools at School level

To improve and provide better infrastructure and sanitation facilities for students and teachers; Big game tools like See-saw, Chain Swing (Jula) and Revolving plate were installed; renovated the damaged toilet structures, as well as constructed new toilet for boys and girls, and the school compound wall; gardening and installation of R.O plant and new storage tank; installation of School shed and construction of urinal shed; provided Projector and printer; installation of Galvanized Iron wall-fixed cupboard; organized Science school awareness programme; renovated damaged drinking water-room, and also constructed a new water-room.



"Nabhoi is small village situated on the border of Bhuj and Mandvi Block of Kutch District. In our school, there is no facilities for Anand Pramod activity. The support of Big Game tools under VKVK from Vestas will be benefited to our school children and other children in the village. The Seesaw, Chain Swing (Jula) and Revolving plate will help to keep children's enthusiasm for schooling, sports and decrease the number of dropout in school. Earlier, during the lunch break some students go to home and no one come back again in school but the games tools kept interest of students to attain whole sessions in school. We are thankful to Vestas and VIKSAT for providing a big games tools in school."

Shri Kunal Patel, Principal, Primary School, Naboi, MandviBlock, Kutch



Capacity building of teachers, students on WATSAN

Behavior Change Workshop for Teachers under Capacity Building Programme of teachers and students was held on 30th November, 2019. 27 school teachers from project villages participated in the workshop. Mr. Mahesh C. Parmar, Block Primary Education Officer (T.P.E.O), Bhuj and Mr. Rajendra Dave, CSR Officer, Vestas, Gujarat addressed Principal and Teachers in Behavior Change Workshop at Farm Villa Resort, Bhuj (Kutch).



Vestas company has been felicitated for CSR support by Primary School, Vadva with a Certification of Appreciation and an appreciation Award by the Gram Panchyat of Mota Bandra during the Behavior Change Workshop at Farm Villa Resort, Bhuj (Kutch) which was conducted on the 1st December, 2019.

Health Camp

8 Health Camps were organized in Vadasar, Jaduara, Vadva, Gandher, Kurbai, Nabhoi, Ajapar and Vadzar villages to create awareness about Preventive Health care check-up and provide primary health service at door step. Nearly 531 persons were treated during these health camps which helped in creating awareness on health issues and preventive health check-up and access to health services at door step for the community.



Skill based Training Programme for Youth (Men & Women)

3 Skill-based training programmes on Gunthan work were organized at Vadava, Mota bandra and Rehamota villages to improve entrepreneurship skill and employability of local youth for additional source of income. 80 women youth members had participated in the trainings to mold themselves from unskilled to semi-skilled, semi-skilled to skilled workforce, thereby, earning an additional income.

3 exposure visits to craft villages and Khamir (at Kukma) were conducted for women members. It was organized to enhance the knowledge and skills on enterprise activities of weaving and traditional skills, and market linkages. In the exposure visit, 58 trainees of skill-based training programmes from Vadva, MotaBandra and RehaMota villages had participated.



Campaigns through ICT Materials, Wall Painting, and Village Awareness Meetings

Awareness meetings in Filon village with 45 Community members and 3 video-show programme in 3 villages were organized with Wall paintings in 7 villages to aware, educate and encourage the community on WaSH issues and sustainable development. It enhanced the practices of personal hygiene, cleanliness and good habits among villages and students.

Chetanba - A step towards entrepreneurship

"In our Darbar community, women avoids going out of the village due to our social customs. It is difficult for women to develop their inner strength and to know new ones. Vestas and VIKSAT have given opportunity to learn and practical knowledge on Gunthan work in local and easy language by arranging a one-month skill base training program for young women. During the training, I have learn to make different things like colored purse, napkin and matki stand, mobile cover, zula, teddy bear, Kunja, Toran and wall hanging, which would help to decorate our home. I can get income from

selling the product in market on demand which will help me to gain additional income to home. I am thankful to Vestas and VIKSAT for bringing ITI level skill programme to villages level and imparting training in the local Kutchi language.

Chetanba said that " This skill training is turning point in my life and I am grateful to Vestas and VIKSAT for enhancing our aspiration levels."



3. Water, Sanitation & Hygiene (WASH)

Anandshala Se Jeevanshala

VIKSAT implemented Anandshala Se Jeevanshala project in five villages of Bavla Block of Ahmedabad District and one village of Kheda Block of Kheda District in collaboration with Niswarth Children Foundation with the financial support of WHEELS India Niswarth (WIN) Foundation from June, 2018. The project covered 2,711 households with a total population of 13,897. The project aimed in developing a model for Sustainable Rural Water and Sanitation in project area.



Community's Need Assessment (CNA)

The Community's Need Assessment Report and Village Development Plans was prepared based on qualitative and quantitative data collected. The Village action plans were prepared separately for each village keeping the specific needs and priorities in mind. The Village Action Plan suggested two separate set of activities (1) Infrastructure development intervention which is mainly capital investment (2) Need for long term interventions in the priority areas.

Capacity Building of Students and Teachers on WATSAN

The capacity building programmes included events such as competition, rally, speech, video-screening had been organized, and IEC material was distributed among the students to spread awareness among the students and teachers on WATSAN (water and sanitation) in the primary schools of the 6 Project villages.

5 Rallies on WATSAN were organized in all project villages to spread awareness among the community members with respect to the importance of saving water and adoption of safe hygiene and sanitation practices. The students of primary schools carried out awareness rallies in the villages by holding a placard with WaSH slogans to spread awareness on WATSAN. The students also shouted a slogan on WaSH during rallies in the villages on the Republic and the Independence Day to make it reach the village community.



Wall-paintings were done in all the 6 project villages. 11 Slogans on Hygiene and Sanitation were written on walls at common places in project villages to educate community on different hygiene practices and prevent them from water-borne diseases, and diseases spread due to uncleanliness.



The notebook stickers with messages on WaSH were given to 1,594 students of primary schools of project villages. The stickers with 9 key messages on good hygiene practice were given to all students. It may help to remind students to follow good hygiene practices in their routine life and spread awareness in their homes.

Pictures on hygiene and sanitation were painted on the toilet walls, Mid-Day meal (MDM) wall and school building in primary schools to increase awareness on hygiene practices. It helped in adoption of hygiene practices in day- to-day life.

The IEC material on water and sanitation was provided to teachers and students to increase awareness on hygiene safe practices and water-borne diseases.

Sr. No.	Particular	Qty
1	Personal Hygiene Booklet - (Gujarati)	1600
2	WaSH Kit (Gujarati)	6
3	Snake and Ladder Game - Flex (Gujarati)	6
4	Educators Manual (Gujarati)	6
5	Health & Nutrition Manual (Gujarati)	6
6	Importance of Safe Water and Water-borne Diseases	1600
7	Steps of Washing Hands	6
8	How Diseases Spreads?	6

Pilot of Roof-Top Water Harvesting Structure (RWHS) and Ground Water Recharge in Schools

VIKSAT carried out feasibility surveys in primary schools of the project villages. This was followed by preparation of designs for rainwater harvesting and ground water recharging structures after assessing the local hydro-geological conditions. Data was collected on existing supply sources, storage, distribution systems and consumption. Also, it included the information regarding the hydro-geological conditions, drainage systems, building plans, etc.. Based on the designs prepared by architects and engineers, 9 rainwater harvesting systems of 35,000 Liter capacity and a system of 25,000 Liter was constructed in primary schools of project villages. Hand pump has been installed on the storage tank to draw the stored water. Four CI rings were fitted at the downstairs in the storage tank to clean the tank.



These RRWHS will harvest 11,79,000 Liter every year. Out of that 3,40,000 Liter water will be stored in storage tank and 9,39,000 Liter water would get recharged every year through recharge pit and bore well recharge.

RRWHS manual was prepared in Gujarati language, and has been provided to each school so that the students and teachers can easily operate and maintain the system. The documentary on processing, operation and maintenance on roof-top rain water harvesting and Anandshala Se Jeevanshal project are under progress.

School Development Plan



The BPS Architecture had prepared the School Development Plans and incorporated the suggestions of SMC, WIN Foundation, Niswarth Children Foundation and VIKSAT

representatives. The plan was prepared based on existing infrastructure available, space available and number of students in the school. Each school plan is unique and different. The design and drawing of school development plan were given for all primary schools.

Improving the School Environment in School of each Village

Improvement in the school environment was done as per the school development plan prepared by BPS Architecture. toilets, water filter and MDM shed has been renovated and repaired.



The new physical facilities like 01 amphitheater, 09 Block walls, 02 borewells recharge, 06 Compost pit, 01 drinking water stand post, 06 hand-wash corner, 72 planter, 18 planter wall, 494 Sq.m paving, 02 recharge pit, 02 sanitation repairing, 01 septic tank, 69 seats, 8 seating wall and 03 stage has been constructed in the primary schools of the project villages.

The colour-painting has also been done for all the activities constructed under the project. The new facilities, retrofitting of existing structures would improve the school environment, and will provide better infrastructure and sanitation facilities for students in primary schools.

Solid Waste Management

Zero Solid Waste Management was implemented in Kanotar village of Bavla Block of Ahmedabad District as a pilot project through “Zero Emission Energy” agency.



To make the villagers aware on solid waste management, an exposure event was organized on the 21st of June, 2019 at Baska village of Halol Block of Vadodara District. In the exposure event, 17 village leaders of Kanotar and Keshradi villages and 3 sweepers participated.

Different IEC material like pamphlet, dustbin sticker and banner were printed to make community aware. The pamphlet includes information like, which garbage should be put into which dustbin, how program will run, etc. The pamphlets were distributed to each HHs (356) and banners were placed at different common places in the villages. VIKSAT and Zee team helped to aware community on which garbage should put in which dustbin during the time of distribution of dustbins and the pamphlet.

Last year sweepers collected garbage from each household, common places, dump sites and cleaned main roads and streets on a daily basis. Each household was made to handover their garbage to the sweepers. Sweepers would carry it to SWM shed and segregated it based on the category of waste such as glass, paper, cloth, plastic, waste card board cartons, etc. The segregated waste is stored in the shed. During the monsoon, the sludge was cleaned, and sand was filled where water was getting filled in the pit.

Vermi-bags were provided to cattle rearing families for making compost from the cow dung. It may help to stop making heap of cow dung on road side.

Details of collected Garbage (Kg.) are given below.

Dry Garbage						Wet Garbage
Plastic	Plastic bottle	Clothes	Glasses	Paper	Rubber	Kitchen Waste
342.04	22.66	35.30	12.84	97.49	17.30	3.0

WATSAN Programme

The WATSAN programme was initiated for promoting one-point use for purification in project villages through selling of Tata Swachh products. Total 135 Tata Swachh units have been sold in the project villages for clean drinking water.



The sanitation programme was initiated through survey of sanitation status in 4 project villages. The baseline survey was conducted in the identified project villages.

Cumulative 200 beneficiaries were identified from Dantiya, Ganer, Navamota and Tebdi villages. Also, a local contribution was received from them. The raw material & water tank for toilet construction was provided to 200 beneficiaries. The water tank fitting work had been completed for 200 beneficiaries with toilet painting work for 42 beneficiaries in the project villages.

Awareness programme conducted on cleanliness, hygiene and sanitation, hand-washing and good habits had been conducted in 40 primary schools in 40 project villages for children with the support of Tata Water Mission and CInI.

710 Pamphlets on wash issues were distributed to 3 villages which created awareness as well as educated and encouraged the community on WaSH issues, and sustainable development with the support of Vestas. Its aim was to enhance the practices of personal hygiene, cleanliness and good habits among villages and students.

Rally was organized at Vadzar village to educate and aware the students and community about cleanliness, WaSH issues and personal hygiene at their homes and village. In the programme, 65 students from Vadzar village had participated and walked around the village. This programme created awareness on cleanliness and hygiene, and improved health consciousness among community.



4. Sustainable Livelihoods

Facilitating Organic Orchard for Tribal Development (FOOD)

The WADI project under the NABARD TDF has been sanctioned to VIKSAT for 7 years from 2013 -2020 in 25 villages of Bhiloda, Aravalli and Vijyanagar Blocks of Sabarkantha District of Gujarat. The project has been progressing successfully through the implementation of the approved activities with the main objective of improving the socio-economic situation by generating long-term sustainable income through the introduction of inter cropping of vegetables with fruit trees and turmeric crop. The activities were also targeted to move towards organic farming in the future.

VIKSAT's Agriculture experts and experts from Maize Research Station had imparted 21 training program to 726 farmers at 8 different villages in the project area.

Information regarding the WADI project under NABARD had been disseminated by installing labelled board in 12 villages of project areas.

Participated in the Global Potato Conclave-2020 under NABARD for promoting FPO from the 28th-30th December, 2020 at Mahatma Mandir in Gandhinagar, Gujarat.

Distributed the vegetable seeds to 1,308 beneficiaries farmers for growing in the 3 cropping seasons, and market their farm produces.



Smt. Vankar Jyotiben, nurse from civil hospital conducted a health awareness camp at Bhiloda on the 26th of February, 2020. Women (46) from 7 villages under the project at Bhiloda, participated in the camp.

Women of SHG group under the project also organized a camp on health and wellness of women. They gave awareness on water purification and women, including pregnant women & child health.

1002 Beneficiaries were trained to use bio-fertilizers made



from castor cake (1000kg), mahua cake, neemcake (1000kg), angana gold (4700kg), vermicompost (150bags), takat powder (2000kg), humiton (2000kg) etc.

Bio-pesticide from vengard (neem oil), Tricoderma powder, Josh(1000ml)

Pheromone traps (1000) were also made to control the fruit-flies in vegetables and fruit crops.

Conducted the activities like stone bund and farm bund for 23 farmers, each in an area of 615 m³ and 1,198 m³ respectively in villages. This was mainly done to increase soil fertility and productivity, and protect the land resources.



A review meeting was conducted at Maize Research Center, Bhiloda on the 12th of July, 2019, regarding the Inspired

Farmers Club of Bhiloda Block under Aravali District of Gujarat. The meeting was conducted mainly to increase the awareness of the farmers and to enhance the farmers' income by forming Farmer Production Associations, so as to get better market prices.

Monitoring of Project Area

The Regional Officer, Mr. Sunilkumar from NABARD had visited 23 WADI in Baleta and Kundol villages.

Experts from DDM Himatnagar, Gujarat had visited 18 WADI in Limda and Chithoda villages of Vijaynagar Block of Sabarkantha District.



Total 500 activities under the Wadi project were digitally monitored by NABCONS.

Wadi - A Mantra for Lakhpati

Smt. Lilaben Sureshbhai Baranda is a small and marginal farmer, who lives in Vejpur village of Bhiloda Block of Aravalli District. She owns a farm of around 1 acre land area. She with other ladies approached the representative of the VIKSAT in the year 2014-15 to take the advantage of the NABARD TDF Wadi. She said that growing of agricultural crops like maize, tur, wheat, and fodder in a systematic manner incurred high input cost, but production was low. So they were ready to adopt Wadi in their own land.

After getting the guidance from VIKSAT, they planted grafted mango plants -20 (Kesar), pomegranate-20 (Bhagva Sinduri) and lemon-[5] (Kagadi) in one acre of land. Along with the fruit trees, different types of vegetables like, bottle gourd, bitter gourd, tomato, brinjal, onion, Bhindi (Okra), guar, etc. were grown as intercrop in each season to get more production.

She has received production of 300 kg. from fruit crops and 4000 kg. from vegetable crops. Thus, she has been earning income of Rs. 1.35 Lakh by selling fruits along with the organic vegetables in and around the villages.



DST Core Project 'Enhancing Livelihood of Tribals in Aravalli and Sabarkantha District'

The project title 'Enhancing livelihood of tribals in Aravalli & Sabarkantha District in Gujarat' under Department of Science and Technology was sanctioned to VIKSAT in the year 2018. It is a core support project for five years (2018-2023). There are five major approved activities under the project, and the activities have been initiated in the targeted villages since November 2018.

In the year 2019-2020, based on the baseline study, the beneficiaries were identified for each activity and imparted the training. The most interesting part was that some of the farmers approached on their own after observing the benefits of other fellow beneficiary farmers.



The project is in the second year, and like in the first year the beneficiaries have been identified for different activities from the targeted villages. There were 43 meetings on different approved activities such as awareness of the project activities on crops & livestock; selection of beneficiaries & crop field for demonstration; demonstration of equipment for turmeric cultivation; information on biopesticide, vermicompost and vermiwash, etc.

The training was then imparted by subject experts from the Agricultural Universities and KrishiVigyan Kendra, Government of India, prior to the implementation of the activities such as SWI & SMI, preparation of vermicompost, and plant protection measures through preparation of biopesticide using the locally available plant materials, and its effect on crops as well as on the environment.



11 training sessions were imparted on all the approved activities starting from 01.04.19 till 31.03.20. Out of these, 4 training sessions were conducted at Maize Research Station, Bhiloda by Research Scientists namely Dr. R.M Patel and Mr. Bhavesh Choudhary. Rest of the training were held at Bhiloda field office and project villages. Altogether, there were 352 farmers present in all the training sessions.

6 Farmers Field Days had been conducted on System of Wheat Intensification (SWI) (3) and System of Maize Intensification (SMI) (3). Five of them were conducted by Research Scientists Dr. R. M. Patel, and Mr. Bhavesh Choudhary, Maize Research Station, Bhiloda, and the remaining one was conducted by VIKSAT's Agriculture experts. In which, 328 farmers attended. Similarly, the training on the feed management and breeding care was also provided by Veterinary Doctors.



Modified according to the area specific practices on the SRI principle "System of Wheat Intensification and System of Maize Intensification" such as seed rate & spacing, irrigation and fertigation etc.

System of Wheat Intensification (SWI)

Area under SWI had expanded from 4 villages (22 farmers) to 12 villages (77 farmers) in an area of 5.5 acres in Rabi 2018 to 38.5 acres in Rabi 2019 respectively.

Increased 23.56% yield over farmers practice from 0.1ha area in Rabi 2019 season. Cost benefit ratio received in SWI is 1:1.73, whereas, in normal case, wheat cultivation it is 1:1.13. Overall net profit Rs.2,630/0.10 ha as compared to farmer practices of wheat cultivation.



System of Maize Intensification (SMI)

The Maize crop under SMI was grown in 18.05 acre in all 3 seasons in 2019. Altogether there were 37 beneficiaries.

Increased 12-16% yield over farmers practice from 0.1ha area in all (winter, Summer &Kharif) seasons.

Agricultural Inputs such as seed, fertilizers & pesticides were supplied to the beneficiaries.

Many beneficiaries took part in training and shared their positive experiences, and the benefits obtained. Their involvement have helped the process of approaching farmers easier, to convince other farmers for implementation of the activities.



Under SRI principle, production of wheat & maize was found to increase significantly. After saving 20% yield each for their own consumption & seed purpose for both the crops, they could earn from the remaining 80% maize and wheat yield, which had never been happened earlier. However, the significant achievement is yet to be seen, as the project is in early stage.

Integrated Farm Management

In the project villages, the area under the organic turmeric cultivation was comparatively very small approximately 1 acre. It was made to expand from 1 acre to 15.12 acre in Kharif 2019 (avg. 5 guntha farmer).

The training on value addition in turmeric was given to 7 members of Ashirwad Mahila Self Help Group.



The SHG was able to process and pack 500 Kg of organic

turmeric powder, and sell at the rate of Rs. 250/Kg at villages and Block levels. The women members have been able to get good amount of money from their efforts i.e., Rs 80/Kg profit. The annual turnover was Rs.1, 25, 000/-.

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

Vermicompost and Vermiwash

Prepared and standardized the area specific vermicompost and vermi-wash production technologies by adding different additives.

54 vermicompost units have been installed for 54 beneficiaries, and have sold a 1/3rd of the harvested vermicompost at the rate of Rs. 7/Kg.

Awareness on the vermicompost has increased in the project areas. Thus, help to improve the soil as well as to create a source of income for the women farmers.



The laboratory report indicated that the vermicompost sample was of Excellent Quality and rich in -N-P-K and other micro nutrient contents.

Application of both the vermi-wash and vermicompost was found to control the insect pest, thereby enhancing the quality and quantity of wheat and turmeric crop.

Improvement and Innovation Local Process of Preparing Bio-Pesticide and its Application

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 10 women beneficiaries of 10 villages, and conducted demonstration in 570 sq.m area of vegetable field. The sucking pests such as Thrips, Aphid, Jassid, Caterpillar and Fruit-Borer in Brinjal, Tomato and Chilly were found to have been controlled, and this improved the quality and quantity of crops.

Animal Husbandry

Intervention was made to improve local breed and do better livestock management using the farm-based nutritive fodder production, and feed formulation.

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



The fodder crop such as Bajra variety, BHN-10 and BHN-21 was made to cultivate under the project in 4.5acre area. After feeding the fodder, 1% fat content had increased as shared by the secretary of Milk Cooperative Society.

Vaccination on deworming has been given to 685 Goats from 3 villages of Bhiloda Block, and 4 villages of Khedbrahma Block under the guidance of Veterinary doctors. After the vaccination, it reduced the mortality rate, increased the immunity, improved the fertility rate, regularized the milk production, reduced hair loss, and overall improved the health.

Capacity Building

During the process of implementation of each activity, 352 farmers [Male-234 + Female-118] beneficiaries farmers have been trained to conduct the activities such as the demonstration of Integrated Farming Systems in area-specific manner, Agro-Processing & Value Addition (organic turmeric, cumin), Livestock (local) Breed Improvement at

household and community level and entire value-chain in identified project coverage area of Aravalli, Sabarkantha and Kutch District.

Dissemination

Farmers other than the selected beneficiaries from the project villages had been inspired with the positive response of the activities under the project.



Activities such as vermicompost preparation, Azolla & Fodder cultivation, as well as SWI and SMI practices had been disseminated to the nearby villages, and Blocks of the project areas.

Women's Empowerment

Through the project, the women beneficiaries created their own group, and share their farm work without hiring laborers.

Ten SHGs have been formed with 10-12 members. They have opened a separate bank savings account by contributing a fixed amount. The generated fund is revolving amongst them since the beginning of the project for their farm and domestic purposes.

DST expert committee members visited Ghanti Villages of Aravalli District on 6th August 2019



5. Institutions and Capacity Building

People Institutions

To strengthen VIKSAT's one of the core objectives the organization promotes 3 - tier SHG - VO - Federation institutional model, at 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 the 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 in Khedbrahma Block, and form new SHGs in Danta Block to include more number of HHs.

Self Help Groups (SHGs)

The promotion of SHGs helps to better roll out activities, and reach out to the most under-privileged sections of community and poor households. VIKSAT has formed 178 SHGs this year, and cumulatively touched the lives of 15,143 HHs through 1,137 SHGs across its field offices in Gujarat. These SHGs have actively participated in numerous loans and finance-based activities, under agriculture and various rural development programmes.

Field Office	Total SHGs	Total Members
Bhiloda	118	1770
Bhuj	42	630
Kheroj	780	9788
Radhanpur	62	930
Satlasna	135	2025
Total	1137	15143



These SHGs' members saved money ranging from Rs. 50 to 100 every month. By the end of this year, the cumulative saving was Rs. 1,11,36,122 amongst 9,788 members. From the saving, they invested among themselves through inter-lending for their social and economic growth, the total intra loaning was Rs. 80,53,276 by 31st March, 2020. During the year, 40 SHGs were benefited from revolving fund of Rs.

4,80,000 from National Rural Livelihood Mission under the Government of India.

Village Organizations (VOs)

Another endeavour was taken up by VIKSAT to strengthen, support and sustain the SHGs, and provide a platform for them to share their issues and search for solutions, and to promote the formation of Village Organizations (VOs) at village level. 12 new VOs were formed this year, thus, a cumulative of 39 VOs were formed. VO provides services like book keeping, grading, credit, audit etc. to its member SHGs.



02 Expert visits were organized to strengthen VOs at Dantiya and Mahudi villages. Ms. Vijiyas Sharma, an expert attended a VO meeting. In meeting, she shared her observations and suggestions such as the timings for meetings should be fixed and with a fixed set of agenda. Penalty should be charged to late comers and persons with a due of EMI. All members must follow the rules and regulations of the VO. These visits helped in better functioning of VO, and its committees started playing their roles.

Capacity-Building Programmes for People's Institutions (PIs) under CDP and lakhpati project

Sr. No	Capacity building programmes	No.	Participants
1	Training programmes on orientation and management of SHG for members of SHGs	134	4038
2	Orientation training on financial need and social issues for SHG members and leaders.	116	3677
3	Training programme on record keeping and accounts for SHG leaders.	48	1348
4	Training programme on leadership development and group dynamics for leaders and CRP.	12	439
5	Training programmes on self-grading and bank linkages' process of SHGs for SHG leaders.	23	337
6	Orientation training on project planning and Micro-Credit Livelihood planning (MCLP) for SHGs leaders	3	77
7	Campaign programme on FPO for creating awareness among SHG members.	15	938
8	Training programme on value chain, marketing and preparation of business plan for BOD and VO leaders	5	163
9	Training programme on Leadership Development, and VO formation for VO leaders	4	153
10	Exposure visit on successful model of People's Institutions for CRP, VO leaders and Programme staff.	1	55

Cluster Level Federation (CLF) - AS A FPO

VIKSAT has promoted CLF which is also an apex level institution of the three tier institution models. These CLF is incorporated under the sub-section 7 of the Companies Act, 2013, and the Rule 8 of the Companies' Rules, 2014, which is also known as the Producer Companies' Act.



VIKSAT in collaboration with NABARD established Farmer Producer Organizations (FPOs), namely Khedut AART Livelihood Promoting Producer Company Ltd. (KALP) and Sabar AART Farmer Enterprise Producer Company Ltd. (SAFE) in Delvada and Kheroj respectively in 2015. Similarly, Gadhwa Farmer Producer Company Ltd (GFPC), Bhanavas; Hatmati Kisan Agro Producer Company (HKAPC), Zinzudi, and Kutch Agriculture Livelihood Producer Company Ltd, (KALP) were also established in 2016. Each of these FPOs, in their respective areas are connected with a number of women SHGs and Farmers Clubs, formed and strengthened by VIKSAT through its previous programmes. These FPCs thus providing quality agricultural inputs at affordable rate at farmers' door step also provide market accessibility; better price range for their produce; and other technical services for enhancing their agriculture productivity.



16 meetings of Board of Directors of SAFE and KALP Producer Companies were organized at AART centre, Kheroj and Delwada. During the meeting, BODs had discussed on various aspects which include, planning a company awareness campaign, opening of a new safe outlet in Mandali village, new enrollment of shareholders, collection of share capitals, establishing BOD KYC- DSC Compliance. Also, it included the update of new shareholder details on the MCA website, training on preparation of Tuver dal, Pigeon pea & Black

Gram dal, designing and quotation of dal packets, planning of demand collection from members for various inputs (like seeds, fertilizers, etc.) for all seasonal crops, The business of aggregation and procurement of agriculture produce like wheat seed and castor, responsibilities of BOD regarding procurement, purchase of agriculture inputs as per demand collected from VO, discussion on selling of seasonal produce.



During the year, 179 women of 19 SHG had given share capital of Rs. 40100 and became a shareholder in SAFE Producer Company ltd. The safe FPO made an annual turnover of Rs. 1,35,72,406 and provided services to 6262 farmers through its three outlets.

The SAFE FPO has been procured 318.71 Qtl. of the agriculture produce namely wheat, castor, black gram, green gram and pigeon pea with the support of CInI, TATA Trusts and JDF.

The SAFE Company collected 92.56 Qtl. of urad dal out of which 82.56 Qtl. of urad dal had been sold to retailer and whole sellers.

VIKSAT has done linkages with Ninja Cart and SAFE Company for vegetable business. It has helped farmers to get better price of their vegetables, at their door step and with assured market linkages. Every day, as per the plan, they collect the vegetables from all the routes, and the procured vegetables are supplied to the given outlet of Nija Cart, Vadali and Vegetable market, Vadali.



SAFE Company has registered with NCDEX Commodity Exchange Market. The Castor produce of 109 q has been sold in APMC at the rate of Rs. 5,650/q which incurred loss of Rs. 11,683 in castor trading.

Meeting with Mr. Sanjay Singh, Area Manager, Bayer, Mr. Sujit and Mr.Virendra from CInI and VIKSAT team members was held on the June 15, 2019 at VIKSAT Office for discussion on linkages with Bayer CSR programmes, and cotton seed plot in project area of Khedbramha cluster with FPOs.



Training programme on operation of Samudra App was conducted at Sadguru Foundation, in which, 4 storekeepers and a Manager participated.



SAFE FPO has put a stall, displayed the products, and participated in Global Potato Conclave organized by ICAR-Central Potato Research Institute at Gandhinagar and Exhibition-cum-Sale –Sahyog Mela (Buyer and seller meet) at Ahmedabad Haat organized and supported by NABARD.



7 farmers had conducted demonstration on cotton seed plot for seed production of cotton, for 532 variety from Dhagadiya village of Danta cluster with safe company. The wheat seed production of GW 173, GW496, GW 451 varieties was also done with 12 farmers from 12 villages of Danta cluster with the safe company.

21 Staff-development programmes were organized for programme staff and CRPs on orientation of programmes, Training for Trainer (ToT), SHG programme and future visioning, VO formation, social security and meeting, institution and model ,leadership development and planning of all programme activities; orientation and management of People Institutions, strategy development on programmes, on-line MIS and Sakdarpan software for digitization of SHGs, and exposure visit on successful model of Agriculture and People Institutions.



Annual General Meeting (AGM) of SAFE and KALP producer companies were organized on the 24th and 25th September 2019, in which share holders from CDP cluster villages had participated. Mrs. Shantaben discussed about the planning, budget, activities and program done by FPO, and the continuous roles and responsibilities of shareholder, board of director, SHG and CRP regarding FPO.

ITC MISSION SUNEHRA KAL

Looking to the successful progress of MISSION SUNEHRA KAL, a programme implemented during the year 2018-19 in 25 Aspirational Districts from the 7 states of India, the funding agency ITC Limited granted VIKSAT to add another 2 more Districts of Odisha with 12 more crops under the same project. Thus in the year 2019-20, there were 27 Districts from 8 states of India. The crops for Kharif season viz., Bajra, Jowar, Clusterbean, Pulses such as Green Gram, Blackgram and Pigeon Pea; Paddy, Maize, Soyabean, Cotton were included. In case of Rabi season crop, it included Lentil (Masoor), Mustard and Rapeseed other than Boro Rice, Wheat and Gram. Thus, the Information, Education and Communication (IEC) material on standard Package of Practices (PoP) had been developed for 15 crops.

This year it also included the activities on Animal Husbandry, accordingly, IEC materials had been prepared with the suggestions from Veterinary Doctors. The workshop was conducted at Patna, in Bihar and at Vidisha, in Madhya Pradesh on Care and management of milch animals.



Information, Education and Communication (IEC) Materials

VIKSAT compiled the PoP for 15 crops based on the recommendation by Agricultural Universities and Research Institutes. Likewise, the PoP of the Animal Husbandry was also compiled as per experts' suggestion. Furthermore, these

crop PoPs were finalized with the feedback received from the ITC agriculture experts' team.

The IEC materials which include the Master trainers (MTs) and Village Resource Persons (VRPs) manuals, were developed in local languages (Hindi, Marathi, Assamese and Oriya) to support the VRPs. The information in the IEC materials was mostly pictorial for better comprehension. Based on the feedback received from the Rabi 2018 training, This time, for both Kharif and Rabi training, there was only one Flip-chart for each crop PoP which is comparatively shorter and simpler so as to enable to assemble the maximum number of farmers as much as possible at the time of training conducted by VRPs. However, the PoP in the Flip-chart not only covered the entire basic steps but also included the Government Schemes related to farming.



Mr. Mayank Joshi, a communication expert imparted the training to resource persons who train the MTs directly with the objective to bring the uniformity in conveying the message of Agricultural Technical Information in a very effective manner to the end users (farmers), who play a critical role in Indian Agriculture sector. Thus, prior to Rabi season, a two-day workshop cum training of Resources Persons had been conducted at Indian Institute of Forest Management, IIFM, Bhopal, on the 19th- 20th September, 2019. There were 38 participants which included the VIKSAT Staff (6), Resource Person (6), NGO representatives (17), and ITC Staff (9).



A little modification was made in the farmers’ diary in which the PoP section had been removed. Instead, an additional one-page crop calendar for specific crops was incorporated in it. This was distributed amongst all the trainee farmers.



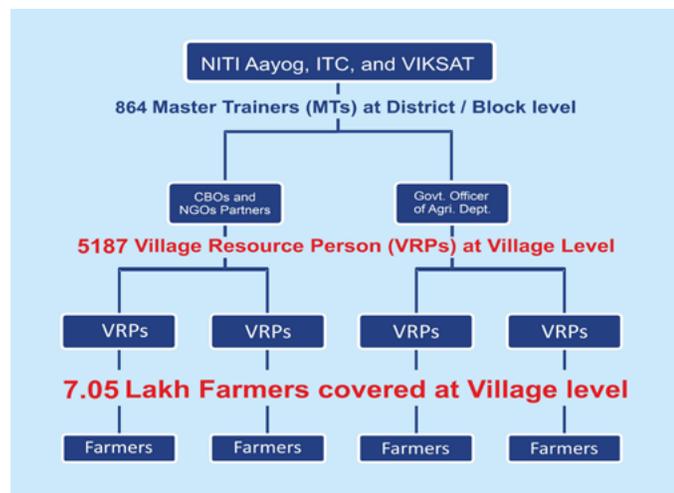
SunehraKal Mobile App

An application was developed to monitor the progress of the MTs and VRPs training sessions, and its outcome.



VIKSAT has developed a mobile application “Sunehrakal” to get the real-time data of all training programmes in all the aspirational Districts under ITC Mission Sunehrakal programme. 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.

Capacity Building of MTs and VRPs



The training programme was implemented through a

cascade model approach. It commenced from the 25th of May, 2019 in case of Kharif crop, and completed by the 24th of June, 2019. In case of Rabi crop, it commenced on the 26th of September, 2019, and successfully completed on the 5th of September, 2019.

In both Kharif and Rabi MT training, VIKSAT Staff (Resource Persons) trained the MT on the PoP for assigned 15 crops in each of the 27 aspirational Districts. Each MT trained around 3-5 VRPs with an IEC material based on the training programme at their convenient locations. Subsequently, each VRP trained 30- 40 farmers in their Villages at different crop stages. The MTs and VRPs involved are associated with the state Department of Agriculture, KrishiVigyan Kendra (KVK) and Agricultural Technology Management Agency (ATMA).

The MTs training had been successfully completed in all the 27 Districts of 8 states across the country in a timely manner.



Monitoring and Evaluation of PoP Training

The monitoring and evaluation of the farmers training (Kharif 2019) through the cascade model on PoP was conducted from the month of December 2019 to February 2020. A questionnaire was developed based on the PoP, and 25 farmers each from 25 Villages per District were interviewed. Thus, there had been altogether 12,554 farmers from 100 Blocks and 543 Villages who had been interviewed. It was found that all the farmers have adopted the PoP. However, it is to be noted that the maximum number of the farmers adopted the practice of ‘timely harvesting’ (9358), followed by ‘use of quality seeds’ (7779) as indicated in Graph -1.

Among the 12 government schemes, more than 25% of the interviewed farmers were aware of all the schemes. However, the scheme Pradhan Mantri Kisan Sanmman Nidhi Yojna (PMKSNY) was one of the schemes of which they were aware (9,385 farmers). Nearly 8499 applied for it. Of these farmers who applied for it, a total of 7344 were benefitted, which is shown in the Graph-2, 3 and 4. Focus Group Discussions (FGD) was also conducted in 3-5 Villages per District where NGOs had conducted 160 Farmers Field Schools (FFS).

6. Environment and Climate Change

Climate change phenomenon is now a global reality. India is one of the most vulnerable countries to climate change that is affecting agricultural production. It requires a serious attention on adaptation and mitigation strategies to overcome the problems of climate change.

The land treatment work had also been completed in 30.40 ha (76.00 Acre) land, covering 1390.20 Rmt Stone bund and 213.00 Rmt Stone gully plug under ELEQRT project.

Tree plantation were done in all the primary school of project area. 270 plants of flower, fruits and forest species were planted in Schools premises. More than 500 students and

teachers participated in tree plantation under Anandshala Se Jivanshala.

3 awareness campaign programmes on World Environment Day celebration were organized in project Villages with the support of HDFC and CInI. The campaign programme, meetings, rally, tree plantation etc was done in which 75 male, 130 female and students participated.



7. Visitors



Shri. Kartikeya Sarabhai (Managing Trustee), Shri. T K Balappan (Secretary NFD), Team members of NFD, VIKSAT visited on 16th July 2019 at Kheroj Field Area



Mr. Praveen, Mr. Arpit and Ms. Vedica, Team members of HUF visited on 06th - 07th June 2019 at Kheroj Field Area



Shri. Jaison, CEO Axis Bank Foundation, visited on 26th - 27th February 2020 at Kheroj Field Area



Mr. Mahesh Pathole, Ms. Namita, NABARD visited on 13th February 2020 at Kheroj Field Area



Ms. Ritika Solanki, CSR Manager, HDFC, Gujarat, visited on 25th to 27th Nov 2019 at Kheroj Field Area



Mr. Sujit Kumar, & Mr. Virendra, Team members of TATA Trust & CInI visited on 11th - 12th July 2019 at Kheroj Field Area

8. Media Coverage



9. List of Abbreviations

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

10. Acknowledgment

Major funding partners and collaborating agencies

Activity Partners

- Hathmati Kisan Agro Producers Co. Ltd., Bhiloda
- Gadhwada Farmers Producers Co. Ltd., Satlsana
- Paryavaran Edutech
- Kutch Agriculture and Livelihood Producer Co.Ltd. Kutch, Bhuj
- Sustainable Rural Enterprise (SURE) Co. Ltd.
- Aravalli Agriculture Resource and Training Center (AART)
- KALP Co. Ltd, Delvada, Poshina
- SAFE Co. Ltd, Kheroj, Khedbrahma

Our Bankers

State Bank of India • Dena Bank • Indian Overseas Bank • Bank of India
ICICI Bank Ltd. • Kotak Mahindra Bank

Our Auditors

Manubhai & Shah LLP
Chartered Accountants
Ellisbridge, Ahmedabad

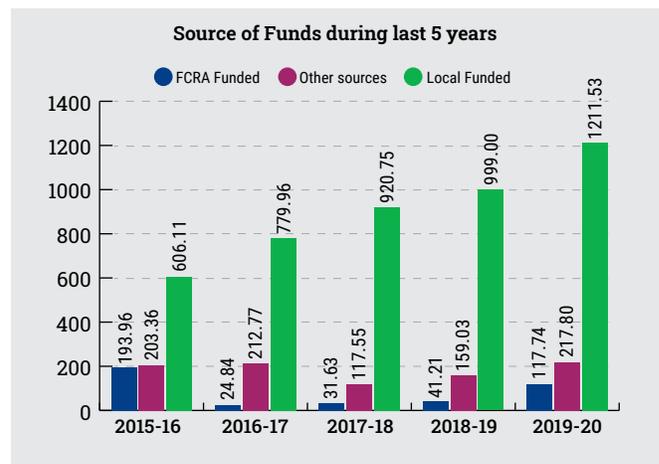
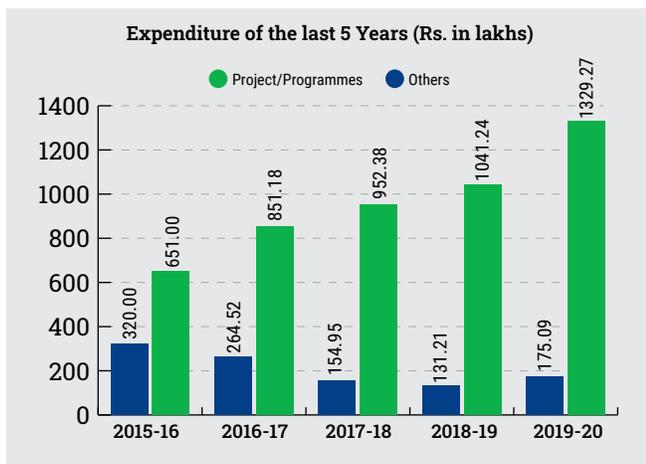
Yogesh K Dave & Co.
Chartered Accountants
Ellisbridge, Ahmedabad

Sorab S. Engineer & Co.
Chartered Accountants
Nariman Point, Mumbai

11. Financial Highlights

Abridged Balance Sheet		(Rs. In Lakh)	
	31 March 2019	31 March 2020	
Endowment Fund Account	0.00	0.00	
Reserves & Other Earmarked Funds (Inclusive of accumulated surplus/deficit)	0.00	0.00	
Balance of Project Grants	423.19	502.38	
Sundries & Suppliers	346.90	165.98	
Total	876.42	757.31	
Assets		31 March 2019	31 March 2020
Immovable and Movable Properties	235.90	252.36	
Investments in Approved Securities	5.00	5.00	
Bank Account and Cash/Fdr etc.	430.94	312.07	
Advances and Other	205.39	188.28	
Total	876.42	757.31	

Abridged Income and Expenditure Account			
	31 March 2019	31 March 2020	
Income		31 March 2019	31 March 2020
Projects and Programmes Income	1041.24	1329.27	
Income from Other Sources	159.00	217.80	
Repayment of Loan Receipts	0.00	0.00	
Total	1200.24	1547.07	
Expenditure		31 March 2019	31 March 2020
Projects and Programmes Expenditure	1041.24	1329.27	
Staff Salaries	104.33	140.02	
Establishment and Administrative Expenditure	16.60	16.01	
Amount transferred to other Earmarked Fund	10.28	19.06	
Loan Repayment to Nabard	0.00	0.00	
Total	1172.45	1504.36	
Surplus / Deficit	27.79	42.71	
Total	1200.24	1547.07	



12. Council of Management

(As on 31 March 2020)

Chairman.....

Shri Kartikeya V Sarabhai

Director
Centre for Environment Education
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Members.....

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Shri Dilip Surkar

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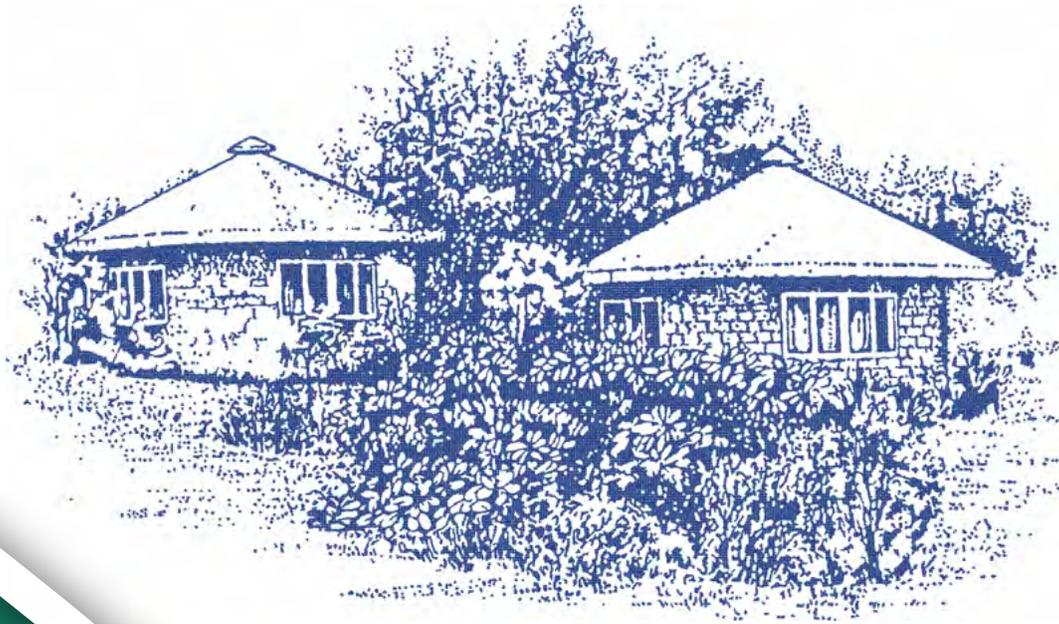
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VIKSAT was set up in 1977 as an activity of Nehru Foundation for Development (NFD), to take proactive steps to conserve environment. VIKSAT has been working with communities in their local regions towards developing models of sustainable natural resource 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 five field offices working primarily in seven Districts of Gujarat, viz. Kheroj (Khedbrahma) in Sabarkantha, Bhiloda in Aravalli, Satlasana in Mehsana, Kukma (Bhuj) in Kutch and Radhanpur in Patan Districts. VIKSAT has expanded its reach to cover other states of India.



VIKSAT

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