# Gian

ANNUAL REPORT

2021-2022

Gujarat Grassroots Innovation & Augmentation Network (GIAN)

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### 1. MESSAGE BY SECRETARY

### **Professor Anil K. Gupta**

Founder, Honey Bee Network, SRISTI, GIAN & NIF Visiting Faculty, IIMA, IITB, Academy Professor, AcSIR, CSIR Bhatnagar Fellow 2018-21

I present the Annual Report of the Gujarat Grassroots Innovation Augmentation Network (GIAN) for the year 2021-2022 with great satisfaction. This year has been one of resilience, progress, and a strengthened commitment to fostering grassroots innovation as a driver of social and economic transformation. We have continued our collaboration with 91 UNDP ACC Lab Network in 115 countries through UNDP Hq, NY. Building capacity of solution mappers has been a distinctive feature of Honey Bee Network and GIAN.

The past year has brought both challenges and opportunities. As the world continued to navigate the impact of the COVID-19 pandemic, grassroots innovators across the country stepped up to address pressing local issues with remarkable ingenuity. From low-cost healthcare solutions to sustainable agricultural practices, we have seen inspiring examples of how innovation can emerge from necessity. GIAN has remained steadfast in its mission to identify, support, and scale these innovations, ensuring that they reach the communities that need them the most.

A key focus this year has been on strengthening the linkages between grassroots innovators, policymakers, and international and national apex organizations. GIAN extended Micro Venture Innovation Fund support to two dozen innovators all over the country with the support of Hima. It launched a very ambitious program that supports bioentrepreneurship in the Himalayan region, supported by the Department of Biotechnology, GOI. Partnership with UNDP Hq., NY picked up momentum through a course designed for solution mappers worldwide viz., MIIST (Management of Inclusive Innovations for Social Transformation). With the help of targeted mentorship programs, incubation support, and financial assistance, we have worked to create an ecosystem that not only nurtures innovation but also provides the necessary infrastructure for its implementation and commercialization. As we look ahead, I firmly believe that GIAN's role in empowering grassroots innovation will become even more critical. I extend my deepest gratitude to our partners, supporters, and, most importantly, the innovators themselves, whose perseverance and creativity inspire us every day. I also commend the GIAN team for their unwavering dedication and hard work in advancing our mission. Together, we will continue to champion grassroots innovation and create meaningful impact in society.

With best regards,

Prof. Anil K. Gupta



### 2. INTRODUCTION BY CEO

Dr. Anamika Dey CEO, GIAN

It brings me immense pride to witness the continued evolution of the Gujarat Grassroots Innovation Augmentation Network (GIAN) as it deepens its impact in fostering inclusive innovation. The year 2021-2022 was a defining period in our journey—one that reinforced the importance of resilient and community-driven innovation in addressing real-world challenges.

At its core, GIAN has always been more than just an organization—it is a movement that uplifts innovators from the most unexpected corners of society, enabling them to turn their ideas into scalable solutions that address pressing social and economic challenges. The past year has demonstrated the critical role of grassroots innovation in strengthening resilience, particularly in sectors such as agriculture, healthcare, sustainable energy, and rural livelihoods.

The progress we have made would not have been possible without the unwavering commitment of our innovators, researchers, and partners. GIAN's efforts to bridge the gap between indigenous knowledge and modern technological applications have yielded remarkable success stories, proving that innovation is not the privilege of a few but the collective strength of many.

The path ahead is one of both responsibility and opportunity. GIAN will continue to catalyze grassroots innovation, ensuring that ideas born from local wisdom can shape national and global development. We remain dedicated to fostering an ecosystem that not only nurtures creativity but also facilitates the transformation of ideas into tangible solutions.

I extend my heartfelt gratitude to our governing board, partners, and stakeholders, whose unwavering support has been instrumental in our progress. Most importantly, I acknowledge the incredible grassroots innovators who are at the core of our work. Your resilience and ingenuity inspire us to strive harder every day!

With optimism and renewed determination, I look forward to another year of innovation, collaboration, and impact.

With best wishes,

Anamika Duy

Dr. Anamika Dey

### **3.** INTRODUCTION

GIAN (Gujarat Grassroots Innovation Augmentation Network) is the first incubator of grassroots innovations set up in 1997 in collaboration with the Gujarat government and supported by SRISTI and IIMA in addition to the Honey Bee Network. In 2003, It shared the best technology incubator award by NSTEDB, DST at the hands of then President Dr. A P J Abdul Kalam with IIT Madras.

The Honey Bee Network pioneered the IPR protection for grassroots innovators in collaboration with SRISTI and created a platform for linking innovation, investment, and enterprise.



### **About GIAN**

- A trust under the Bombay Public Trust Act, 1950, Registration no F/ 5830 (Ahmedabad) & as a society under the Societies Registration Act, 1860 Registration no. GUJ/5981/Ahmedabad.
- A Nodal Institute under Startup Gujarat Scheme, Government of Gujarat
- A Scientific and Industrial Research Organization (SIRO) by the Department of Scientific and Industrial Research
- A Patent assistance cell, Government of Gujarat
- GIAN also established a Sec 8 company, GIANASTRE with the assistance of the Gujarat government with identity. No. U74999GJ2018NPL103052 (Companies Act, 2013 (18 of 2013).

 GIAN's model was scaled up in the form of the National Innovation Foundation-India, set up under the Department of Science and Technology with the help of the Honey Bee Network.

### Mission

"To nurture and sustain the spirit of innovation, encourage experimentation, and nurture creativity at the grassroots. To promote innovations from and for grassroots communities leveraging functional traditional knowledge, using commercial as well as non-commercial channels"

### **Objectives**

- To scout, document, and validate the grassroots innovation, help them achieve scale by adding value, design, and other inputs from formal organizations including private companies.
- To do market research, develop strategies, protect IP where needed, promote solutions as DIY, and facilitate partnerships between innovators and entrepreneurs
- To unleash the creativity of common people helping them gain respect, recognition, and reward innovations from around the world through HBNCRIIA awards
- To undertake research and policy studies to nurture and promote an inclusive innovation ecosystem

### 4. LIST OF GOVERNING BODY MEMBERS

Name	Profession Occupation	Designation
Prof. Bakul Dholakia	Former Director of IIM Ahmedabad Director & Former Vice Chairman of Adani Institute of Infrastructure Management and Advisor to Adani Group.	Chairman
Mr. Raj Kumar, IAS	Principal Secretary (Industries & Mines), Dept. Of Industries & Mines, Govt. of Gujarat	Vice Chairman
Prof. Anil K Gupta	Honorary Secretary, GIAN, Faculty, Indian Institute of Management, Ahmedabad	Honorary Secretary
Shri Mukesh Puri, IAS	Additional Chief Secretary Agriculture, Farmers Welfare & Co- operation Department, Govt. of Gujarat	Member
Shri Manoj Kumar Das	Principal Secretary to the Government Panchayat, Rural Housing & Rural Development Department	Member
Shri C. K. Koshy	Ex. Chairman, GSPC limited	Member
Prof. Vijaya Sherry Chand	Faculty, Indian Institute of Management	Member
Nilesh A Kulkarni	Director – Commercial Gharda Chemicals Limited	Member

Smt.	General Secretary, SEWA	Member
Reema		
Nanavaty		
Shri	Advisor, Zydus-Cadila Ltd.	Member
Sunil R.		
Parekh		
Mr.	Director, Entrepreneurship Development Institute of India	Member
Sunil		
Shukla		
Dr Vipin Kumar	Director, National Innovation Foundation	Member

### 5. LIST OF PROJECTS AND ACTIVITIES CONDUCTED

### 5.1 **Projects Updates**

### MOU with Suzuki Motor Company for augmenting Grassroots Innovations

A MOU was signed by CEO GIAN. An agreement was signed between GIAN and Suzuki Motor Company, Japan on 20.12.2022. The scope of the agreement is to identify grassroots innovations irrespective of the domain and provide necessary support like field study, user trials, refabrication, etc.







The project envisages supporting and scaling grassroots innovations into a sustainable business. The idea of scaling up grassroots innovations by Suzuki Motor Company, in Japan recognizes, validates, and reinforces GIANs values and long-held position in this respect.



Fig-3

Fig-4

Different activities are being undertaken to achieve the above end in a costefficient and effective manner, like field visits, innovation refinement, innovators capacity building, legal & IPR support, etc. Likewise, operational processes and procedures are being drawn up to crystallize Gian's efforts in this respect so that a similar exercise can be replicated across the various domains of grassroots innovations.

The project is in the initial phase of execution with the recruitment process being completed at the end of GIAN.

## 5.2 MOU with Yayasan Innovasi Malaysia, YIM (Malaysian Innovation Foundation) for innovation partnership and exchange

The signed MOU entails the cultivation of values for grassroots innovations. Activities like promotion, sharing of the platform, identifying programs, organizing workshops, collaboration, cooperation, etc. related to grassroots innovations are envisioned.

### 5.3 Department of Biotechnology, GOI for strengthening bio-resource-based entrepreneurship in the mountain regions (J&K, West Sikkim and Kiphire, Tuensang, Nagaland)

The project envisages the creation of a database of local bioresources of some of the most backward regions of the Himalayas and is expected to culminate into the formation of 5 bio enterprises benefitting the people of the region. The project is being executed as per the terms of the signed agreement.

7 project staff members are active on the field level; Sikkim (3), Nagaland (2), and Kashmir (2), and initial visit to the project location was completed to assess the necessary support required for the execution of the project locally.

a) Activities in Khipri, Nagaland





Fig-5

Fig-6



Fig-7

b) Activities in North District, Sikkim



Fig-8





Fig-10

c) Activities in Baramulla, Kashmir



Fig-11

Fig-12



Fig-13



Fig-14

The initial baseline survey is complete and the process of creation & documentation of the database of the bioresources is being undertaken.

An initial sample was collected and market readiness of marketable bio-resources was tested in the Saatvik Food festival through individual stalls of the three states or UT, Some of the products were responded to enthusiastically by the general public based on their tangible health benefits.

5.4 Progress on Support from Gujarat Industrial Investment Corporation Limited (GIIC) for deploying and delivering sanitation solutions/benefits to Agaria's (Phase-1 completed)

On account of its unique geography and weather conditions, combined with the manual salt-making process employed by Agariyas; Agariyas face acute problems related to sanitation during their long stay of eight months. Shortage of sufficient potable water, lack of toilets, and the presence of vast open lands force them to practice open defecation. All the problems related to health and socio-economic factors associated with open defecation are hence faced by the community. The problem is to address the issues of sanitation in the Agariya community and provide a solution suitable to the needs and capacity of the community.

Constrained with the solutions are;

- a. Lack of constant supply of water
- b. High water table for underground extraction affecting its quality
- c. Constant flooding of the landscape prevents the creation of permanent structures, either for the stay or toilets

### Usage of toilets

The community's lack of usage of toilets is attributed to the following factors:

- a. Unavailability of toilets
- b. Inaccessibility due to distance
- c. Lack of financial resources
- d. Behavioral and cultural tendencies
- e. Lack of proper waste management
- f. Lack of awareness about the negative impact of current practices.

### Problems specific to women

- a. High level of illiteracy
- b. Deprivation of privacy and hygiene
- c. Conformation to the traditional practices of hygiene
- d. Unawareness of social schemes of the government benefitting women.
- e. Notion of safety in the salt industry as compared to industries like construction
- f. Following traditional economic practice and diffidence toward exploration of new alternatives
- g. High birth rates in the expectation of more hands for manual work.
- h. Domestic violence

### 5.4.1 Solution experimentation

i. Concept-1

A prefabricated foldable structure in which the sides are joined with hinges, so two sides fold into one. The base pipes are embedded inside PVC pipes installed deep in the ground with a top cover for extra support and shade.



Figure 15: Concept 2 - 3D model

Installation process: -

- To install this toilet, open up the sides insert the pin in the hinge between the two sides, and close the door. Then insert the roof into the pipes on top and fasten them using a nut and bolt. Place it where it needs to be fixed take the imprint of the corner poles lift it and put it aside again.
- Dig holes of 1.5 feet on the imprints and put gravel in all four holes for a few inches place the PVC pipes inside it and fix it by putting support around it using gravel and mud. Put the four metal legs of the toilet structure inside the PVC pipes and fill the space inside the pipe using small wooden sticks to prevent it from moving.

Place the toilet seat inside the structure and attach the pipe from the platform to the pit dug behind it. Later cover the pit from the top and install a ventilation pipe from the pit.

Dismantling process: -

- Remove the toilet seat.
- Lift the toilet from the PVC pipes, remove the roof and the pin from the hinge and fold both two sides.
- Remove the PVC pipe from the ground and the pipes from the pit and cover it back.
- Tie the frames of the structure with any rope or cloth piece and carry it back to the village where it can again be assembled for use if required.

### ii. Concept-2

1. A frugal concept that was developed in the preliminary ideation and based on the existing practice of making huts in the Rann.

- Under this concept, four bamboos were fixed in the ground straight up to 2 feet.
- A plastic (Kantaan) cover was tied to all four poles to cover the sides.
- A seating platform similar to the one in Concept 1 was installed inside the structure with a pit behind the toilet.
- The Roof was left open
- > The front side was covered with a curtain to let the user enter and exit.

2. Another prototype was made earlier by Arnav Bhagwati and Mridul Jain under Prof. B. K. Chakravarthy from IIT Bombay. It had a structure of metal pipes and a canvas cover that could be easily attached to the pipes.



Figure 16: Concept made by IIT Bombay students, Urine diversion Toilet seat

- > This toilet seat was a new innovation to the Agariyas initially.
- An explanation about this toilet and its benefits was made to the community.
- Reinforcement of the aforementioned education was made through the usage of the toilets for some time by the community.
- A review and feedback from the community were undertaken to assess the further modification needs required.
- The concept was finalized with a revision of the construction process and cost. This was done to minimize the cost and maximize the benefits by increasing the number of toilets.

### 5.4.2 Selection of final design

Cocreation of direct pit design with an exhaust pipe for gasses to overcome foul odor.

- 1. Experience with the installed toilets
  - ✤ Toilets were installed for trials

- ✤ A field visit was conducted to know the experience of Agariyas and women using installed toilets.
- Visiting the localities in Rann we saw the conditions of the installed toilets.
- The feedback of the locals was that they face a severe shortage of water and installing these toilets in three mandalis does not solve the issue. Hence, the lack of usage of installed toilets.
- The feedback from the locals provided us an insight as to the high wind resistance faced by the installed toilets and hence the modifications required in our designed toilets. Three locals who were residing in different mandalis recommended that the upper structure at Chamunda mandali be the most suitable for their needs.



Figure: 17 -Toilet of concept which was unfit for use.

### 5.4.3 Redesigning of the toilets

The design was finalized by local Agariyas based on their feedback on the toilet installed in Chamunda Mandali.

Discussions with Prof. Anil Gupta about toilet modification were held and he suggested minimization of potable water usage in the redesigned toilet.

The team brainstormed to modify the design in such a way that there is minimum usage of potable water.

It was decided that the wastewater remaining from the washed utensils be used in the defecation process for cleaning the toilet which will prevent the odor also.

After discussing the situation with local Agariya's, it was concluded to install the toilet above the pit which would be 3x3m so that the waste directly goes into the pit.



Figure 18- Pit of 3x3m





### Figure 20- Foldable toilet

The design was finalized in the form of a prefabricated foldable structure having sides joined with hinges, resulting in their sides folding into one. The base pipes rested deep inside the ground and the top was covered for extra support and shade. Process of installation of the co-created toilet: -

 $\blacktriangleright$  Dig a pit of 3x3 feet

- > Open up the sides insert the pins in the hinge between the two sides and close the door.
- Insert the roof into the pipes on top and fasten them using a nut and bolt and complete the structure.
- Install the toilet seat above the pit by providing two iron supports below the toilet seat and then putting a structure above the seat.
- Cover the pit from the top
- Install a ventilation pipe from the pit.
- Provide support on the base of the seat so that it can sustain the load of people on the seat.
- ▶ Fix the foldable structure above the pit and the toilet is ready for use.

The ready structure was high in strength and durability with high resistance to winds.



Figure 21-Supporting pipes below the toilet seat which divide the human force



Figure 22-Final Toilet Design

### Advantages of the selected design: -

- i. Durable
- ii. Resistant to high wind velocity
- iii. Portable
- iv. Usage of wastewater
- v. Easily accessible
- vi. Benefits of privacy
- vii. Usage of local material and labor
- viii. Low cost of construction considering the geographical limitations
  - ix. Low cost of maintenance

### 5.4.4. Experience with toilet installation

After finalizing the toilet design which was suitable for Agariya we conducted a field visit and started installing other toilets. Locals contributed wholeheartedly to digging pits of 3x3m and we supplied the necessary materials. We fitted the toilet seat on the pit by providing two supports so that the seat could properly be adjusted and would not move around.

The periodic review was undertaken for a week with the community as to the installation of toilets and their usage.

The response of the community was positive, especially among women:

- Due to its easy accessibility
- Providing necessary privacy, hygiene & shade

- Regular and productive use of wastewater generated after washing utensils for cleaning toilets
- > Clean air around them due to the absence of foul odor

### Replication & installation of the selected design in 25 mandalis

### Field visit and installation of toilets

The experience of installing four toilets and a positive response by GIAN resulted in a field visit to further replicate and extend our exercise in 21 different mandali covering 170 km of the region.

The discussions were held with the people of village Kharaghoda regarding our intention to further install 21 toilets in the region. The discussion helped us approach the other 21 mandalis. Making our outreach to a total of 25 mandalis.

### THE LISTS OF DIFFERENT MANDALIS AND BENEFICIARIES

r			
Sr. No	Agariya name	Mandali name	Latitude and Longitude
1	Vijuben Dasrathbhai	Chhathi	23°1764 N, 71°6734 E
2	Ranjanben Laghrabhai	Himatpura	23°1664 N, 71°6213 E
3	Godavariben Dashrathbhai	Bajana	23°1999 N, 71°5696 E
4	Rekhaben Ashokbhai	Soma sahkari	23°2120 N, 71°539317 E
5	Poonamben Maheshbai	Navi naranpura	23°2426 N, 71°54771 E
6	Bachiben Labhubhai	Jesda	23°2147 N, 71°4660 E
7	Gauriben Bhopabhai	Alok	23°2101 N, 71°6391 E
8	Geetaben Vinodbhai	Odu 7	23°1952 N, 71°6879 E
9	Heeraben Karamsinhbhai	Nagbai	23°2494 N, 71°4490 E
10	Kanubhai bhala	Naranpura 3	23°2185 N, 71°5570E
11	Kunvarben Ishwarbhai	Vispatha	23°2223 N, 71°6221 E
12	Madhuben Maheshbhai	Juni Naranpura	23°1031 N, 71°5603 E
13	Madhuben Melabhai	Odu 1	23°2528 N, 71°6523 E
14	Menaben Bharatbhai	Ganesh	23°2247 N, 71°5089 E
15	Mukeshbhai	Ashok	23°1072 N, 71°5676 E
16	Rameelaben Baldevbhai	lakki mandli	23°2511 N, 71°5764 E

17	Rameelaben Maheshbhai	10-acre 5	23°1530 N, 71°4065 E
18	Rekhaben Rajeekbhai	Navi Malvan	23°2219 N, 71°6775 E
19	Rinkuben Sanjaybhai	Band pada	23°2790 N, 71°5423 E
20	Sonalben Rajubhai	Odu sahkari	23°2619 N, 71°6391 E
21	Sumitraben Ashokbhai	Bhanu	23°2246 N, 71°5090 E
22	Samjuben Melabhai	Chamuda	23°2022 N, 71°5931 E
23	Mukeshbhai	2 Shiv Shakti	23°2188 N, 71°6021E
24	Maheshbhai Chandubhai	Shiv Shakti	23°2077 N, 71°5821E
25.	Rameshbhai Jivabhai	10 Acre	23°1977N, 71°5861 E

### Installation Experience

The first four toilets based on the final design were installed initially at first four mandalis were: -



1. Samjuben Degama - Chamunda Mandali

Fig-23

### 2. Mukeshbhai - Shivshakti



Fig-24

3. Rameshbhai - 10 acre



Fig-25

4. Maheshbhai – Shivshakti



Fig-26

The installation of 21 other toilets was done in different mandalis. The community was informed to dig a pit of 3x3 m in their chosen location to save time and ease the process of installation. The material, structure, and toilet seat were transported to Kharaghoda from Ahmedabad and stocked at Ashok mandali, as it was the most suitable location for further distribution among different mandalis. The upper structure of the toilet was fitted prior to its distribution among different mandalis.

### 5.5 Ongoing partnership of UNDP Accelerator labs, NY

After running two online cohorts for solutions mapping and 45 one to one mentoring sessions with the 91 UNDP accelerator labs in 115 countries, last year we ran a campaign on discovering and deploying Grassroots energy innovations for increasing access to safe and sustainable energy to 500 million people across the globe. solutions mappers have discovered 359 grassroots energy solutions from across different regions, demographics and energy sources.

### 5.6 Nutrition Garden in Government schools

The projects entail kitchen gardens for schools in order to enshrine & ingrain the habit of supplementing mid-day meals and generating appreciation of nutritional values of plants & vegetables among students.

Accordingly seeds of different varieties of plants and vegetables were supplied to more than 700 schools and monitored their progress. We are pleased of report that not only the project was undertaken enthusiastically by schools but some of them able to generate surplus produce for selling in the market.

*Vegetables Seeds Distributed* - String Beans, Bottle Gourd, Ridge Gourd, Ridge Gourd, Ladyfinger, Tomato, Brinjal, Lima Bean, Hyacinth Beans, Red Hyacinth Beans, Spiny Gourd, Pigeon pea

### Total kits distributed – 248

*Total state covered* – 8 (Chhattisgarh, Gujarat, Haryana, Himachal Pradesh, Maharashtra, Odisha, Sikkim, Uttar Pradesh)

Total school covered - 248

### State and District Wise Kit Distribution List

Sr. No.	State	District	Number of seed kits sent
1	Chhattisgarh	Mahasamund	2
		Bilaspur	1
2	Gujarat	Ahmedabad	4
		Amreli	6
		Anand	5
		Aravalli	1
		Banaskantha	7
		Bhavnagar	35
		Botad	2
		Chhotaudepur	1
		Dahod	6
		Dang	1
		Devbhumidwarka	2
		Gandhinagar	4
		Gir somnath	6
		Jamnagar	4
		Junagadh	9
		Kheda	20

1	1	1	1
		Narmada	2
		MAHESANA	2
		Mahisagar	1
		Morbi	2
		Navsari	2
		Panchmahal	6
		Patan	8
		Porbandar	1
		Surendranagar	2
		Valsad	1
		Rajkot	9
		Sabarkantha	34
		Surat	3
3	Haryana	Gurugram	1
		Yamuannagar	1
4	Himachal Pradesh	Chamba	8
		Mandi	1
5	Maharashtra	Amravati	1
		Chandrapur	1
		Dhule	2
		Gondia	2
		Hingoli	1
L			1

		Jalgaon	2
		Jalna	3
		Latur	1
		Osmanabad	2
		Pune	1
		Solapur	23
		Thane	4
		Yavatmal	1
6	Odisha	Bargarh	1
7	Sikkim	North	1
		West	1
8	Uttar Pradesh	Gazuabad	1
		Total	248



Fig-27 Vegetable seeds kit



Fig-28 School: Z. P. CHOOL BHOYACHAPADA, District & State: DHULE & Maharashtra

### 5.7 The Partnership with Norwegian University of Science and Technology (NTNU) through HBN (Completed)

Idea was to engage with the students of NTNU to help them learn about grassroots innovations and also encourage them to develop global business plans. Their visit to India could not take place and thus online interaction was arranged by GIAN team with the students. Several useful leads were developed by the students.

### 6. Other Activities

### 6.1 People's Festival of Innovation at IIC-Delhi

People's Festival of Innovation at IIC-Delhi was organised by GIAN in partnership with C-CAMP, Bangalore with the support of IIC- Delhi on 19th November, 2022 to 30th November, 2022. The objective of the festival was to showcase the spectrum of innovations at the grassroots level in India, along with the latest technological interventions in different domains of grassroot level innovations.





More than 50 innovations each by GIAN and C-CAMP were displayed during the occasion.



Fig-30



Fig-31

The occasion provided an interactive platform to innovators for sharing not only mutual learning and experience among them but its relevance in the context of customers perspective.



Fig-32



Fig-33

Various activities like Panel discussions, exhibitions, Interactive sessions, Expert speakers, etc. were conducted to enrich the experiences of innovators, participants, and consumers.



Fig-34



Fig-35



Fig-36

The occasion also led to the intensive use of social media platforms like YouTube, Facebook, etc. to engage & disseminate the sharing of learnings as widely as possible.



Fig-37

### 6.2 Participation in Sattvik Traditional Festival and lessons learnt

GIAN and its partner institutions participated in the Sattvik Food Festival; Five stalls were engaged for the promotion and sales of various traditional items sourced from Nagaland, Kashmir & Sikkim.



Fig-38

The occasion was used for raising awareness about the health benefits of various food items sourced from the abovementioned states & UT and testing the

suitability of plants & vegetables from bio-resources of the Himalayan region for expanding the reach of these traditional items.







The response had been heartening as more than 7 lakhs of produce from the abovementioned regions were sold in four days. The footfall was approx. 30,000 for the event.



Fig-41

The occasion also provided much-needed feedback from the direct consumers of these products. The experience gained will be used for further refinement and value addition required for deepening and widening the consumer acceptance of these traditional products.

16 members of the local community from the regions of Kashmir, Sikkim, and Nagaland also participated in the festival. The experience gained by these members was crucial enabler for them to appreciate and understand the commercial potential and modifications required for the wide acceptance of their local produce.

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### The Media Coverage

Fig-42





### 6.3 Visit of delegation from the MOST (Min of Science, and Technology), Philippines

A nine-member delegation from the MOST visited GIAN's office and People Festival of innovation from 26th November 2022 to 2nd December 2022. The team consisted of academics and bureaucrats from the Philippines.









The visit was to understand the grassroots innovations ecosystem of India and interact with its stakeholders. In this regard, the team visited the location of Sanjay Bhai Tilwa, innovator of groundnut digger, Rajkot & Mansukh Bhai Jagani, innovator of Bullet Santi, Amreli.



Fig-46

The team expressed keen interest in various innovations suitable to their country and accordingly products are being identified to be exported to their country. It is expected to generate export sales for innovators supported by GIAN.

6.4 Visit of Delegation from Malaysia, MOSTI and YIM

A team of 7 visited GIAN Office from 2nd April, 2022 to 6th April 2022 with the objective to understand grassroots innovations and their potential applicability in Malaysia.





The team visited the exhibition in IIMA and interacted with the innovators. More than 50 innovations and innovators participated in the event and shared their experiences with them.



Fig-48



Fig-49





### Fig-50

### Fig-51

The team expressed deep interest in the innovations and their challenges at the lowest echelon of the economy. The team was also able to identify innovations suitable & relevant to their home country. Currently they are engaged in the process of importing certain products meeting their specific requirements.



Fig-52



Fig-53

The team also visited an exhibition and interacted with innovators in their work locations in Dharamshala (H.P) and Rajkot (GUJ). The visit and interaction led to a deeper understanding of the challenges relevant to the grassroots innovators and innovations.

6.5 First Traditional food festival in Srinagar in partnership with JKRLM



Fig-54

A traditional food festival "ALAAV" was organized on 23-25 September 2022 by GIAN in partnership with JKRLM showcasing traditional food produce of Kashmir, specifically Baramulla.



Fig-55



Fig-56

17 stalls were used for showcasing and selling the traditional food products of the Kashmir region. Around 40 participants from the local community represented GIAN.



Fig-57



### Fig-58

GIAN was able to generate sales amounting to Rs. 80,000 on the daily footfall of 800-1000 people.

# 6.6 MindFree Fridays- Interaction with twelve weeks with 12 guests including innovators and innovative teachers

A program under the name of MindFree Fridays was organized online from 11 Feb 2022 to 29 April 2022. The objective is the promotion of interaction and engagement among innovators for mutual learning.



Fig-59

15 Innovators were invited as guest teachers for the period with around 250 participants in each event. The event was conducted successfully with the overwhelming support of various stakeholders of the grassroots innovation ecosystem.

Some Of the Innovator Speakers







Fig-60

Fig-60

Fig-61



Fig-62



Fig-63

### **7.SUCCESS STORIES**

GIAN in its journey supported and promoted grassroots innovations irrespective of innovators background. Some of these innovators have already become successful and some are on their way. Listed are the three examples:

Mansukh Bhai Prajapati, Mitti Cool



Fig-64

Pottery is the traditional business of Mansukhbhai's family at Morbi, Rajkot. He by combining his traditional knowledge and support from GIAN in testing, product development, IPR, business development innovated various clay products named Viz; Mitticool Fridge, Non-Stick Clay Tawa and Clay Cooker etc.



### Fig-65

He with the support of NIF and GIAN commercialized these products and now considered as a successful entrepreneur. He in the course of his journey received national and international recognitions and included as case study in numerous management books; management education. He has become a leading example to be followed in entrepreneurship and validating GIAN's belief in grassroot innovations and its capacity to transform lives at the lowest echelons of society.

Rahul Singh, Battery Operator Tractor



Fig-66

Rahul Singh is making headlines with his talent. He was a 12th standard student, when approached GIAN. He is currently engineering student an innovator in the Design Innovator and Incision Center at Madan Mohan Malviya University of Technology. Rahul at an early age witnessed first-hand the problems faced by the farmers and designed and produced a battery powered tractor.



Fig-67

Rahul has got financial support under MVIF by GIAN and SIDBI for prototype development, testing and trial, and marketing of the tractor. The latest version is hybrid one with the additional capacity of being solar power. He has received significant appreciation and queries about his innovation. With the help of GIAN he is on its way to transform himself from innovators to a successful entrepreneur.

Aabid Rehman Dar, Snow Remover



Fig-68

Aabid Rehman Dar hails from Anantnag, in Kashmir. He is currently pursuing Civil Engineering from a college affiliated to Gujarat Technological University. He is 23 years old and currently in his final year.



Fig-69

He has added an attachment to tiller plowing machines such that it will clear the snow on surfaces and roads just like heavy snow-cutting machines. It is attached to the front side of the tiller. The attachment can be attached & detached only with the help of 2 bolts just within a few minutes. A curved shovel blade having 48 inches of curved width cleans the snow from the surface of 36 inches in just one go.

GIAN contributed in trials and refinement of product and filed patent o filed on behalf of innovators with the help of S. S. Rana & Co. The product is attracting wide attention and expected to be successful in difficult winter conditions similar to Kashmir around the globe

### 8. SUMMARY OF ACCOUNTS

Year 2021-2022 - Fig. INR

<b>Total Income</b>	FCRA	Non-FCRA
1,86,98,033	1,04,58,700	82,39,333

Total Expenditure	Program	Overhead	
1,76,12,298	1,62,49,505(92%)	13,62,793(8%)	

### **Past Three Year**

Year	Income	Expenditure	Excess of Income
			over Expenditure
2021-2022	1,86,98,033	1,76,12,298	10,85,735
2020-2021	2,57,03,132	2,46,91,129	10,12,003
2019-2020	1,10,75,906	1,04,61,172	6,14,734