



1. Title of the project: Innovation Based Science & Technology Entrepreneurship Development (iSTED) Project
2. Name and Address of Project In charge with all communication details:

Pranay Shukla, Block 5, Aakashdeep Bungalows, Behind Uma Bhavan, Jitodia Road, Anand 388001, Gujarat

3. ISTED project site details: Training Centre :

>iSTED Training / Concealing / Incubation Center

RDF, Opp. Mother Care School,
Bhawanipura Road, At. Post BHUMEL
Nadiad, Kheda

- iSTED Skill Training / Technology Demonstration & Nursery Production Center
Israma, Block : Petlad, Anand
- iSTED Nursery Seed Bed Training / Nursery Plants Support Center
Near Panchayat Bhawan, Khadiyarpura, Block Matar, Dist. Kheda

4. Date of Sanction of project: 10/12/2015
5. Date of Start of the project: 01/04/2016
6. Date of completion of the project: 30/06/2021
7. Extended in case (with proper reasons):Due to COVID Pandemic RDF has been requested for the “No Cost Extension ” and it has been approved by DST .
8. Implementation district / region covered: Anand, Kheda, Panchmahal, Mahisagar, Dahod, Vadodara, Kuchh
9. Technology focus area: Technology areas are Agriculture, Agro-Food Processing, Waste Management, Renewable Energy
10. Implementing Institute & other Collaborating Institute for technology sourcing.
 - >Anand Agriculture University
 - >Innovative Eco Care Pvt. Ltd
 - > School of Bakery , AAU, Anand
 - >NABARD
 - >DIC
 - >Gujarat Horticulture Department
 - >Agro Economic Research Centre (GOI)
 - > AITC
 - > MGET
 - > Merverik Inc.
 - > SPRERI
 - > Krushi Vardhan Kendra and ATMA Project
 - > Allembic – Farmers training Center
 - > Horticulture Department , GoG
 - > IPM, Vadodara

11. Objectives fulfilled under the 5-year project

- Innovation Promotion
- Promotes Sustainable Agriculture
- Value Addition Practices in Agricultural Produces
- Developed Package of Practices for Various Crops
- Linkages Established with Market and Farmers
- Increase the income of farmers
- Skill Enhancement by Hands-on Experience by demonstration
- Employment Generation

- Soil Enhancement by residue removing methods
- Capacity building of Agri Entrepreneurs
- Innovation in Bakery & Food Processing
- Promotion Activities / Product / Services through ICT tools

12. Cumulative outcomes of the project in 5 years

Sl. No.	Innovative – → technology Implementation ↓	A	B	c
		<p>Innovation no. 1 (Agriculture Sector)</p> <ol style="list-style-type: none"> 1. Soil Enhancement By In Situ Microbial Process (Agricultural Residue) 2. Eco Friendly Cultivators (12 rotating gears, 12 drill bits, rotating 12 crown gears, 12 pinion gears) 3. Formula for Fodder Production in Saline Water by converting excess salt in to nutrition (up to 10000 TDS Level) 4. In Situ Trichoderma Process and usages in various crops (Trichoderma, a bio-control agent for management of soil borne disease / in plant growth promotion) 5. POP for Green / Net House Cultivation with Cost reduction 6. Innovative Crops Cultivated first time in Gujarat in Supported by iSTED Demonstration Centre <ul style="list-style-type: none"> ➤ Quinoa ➤ Black Wheat 	<p>Innovation no. 2 (Food & Agro Processing Sector)</p> <ol style="list-style-type: none"> 1. Icing Sugar Sheet Edible (Sheet Generator and Dryer) 2. Edible Printing Ink for Bakery Industry (WHO GNP Certified) 3. Law Temperature Masala Grinding Machine 4. Herbal Immunity Booster for Poultry Birds (WHO GNP Certified) 5. Package of Practices for “KADAKNATH” Poultry Breed Farming 6. Egg White and Yellow Packaging machine 7. Herbal Liver Health Booster for Poultry industry 	<p>Innovation no. 3 (Waste Management Sector)</p> <ol style="list-style-type: none"> 1. Agriculture Waste processing by In Situ Microbial Process (Agricultural Residue) 2. Processing of Cow Dung and Urine (Liquid Fertilizer) 3. Compost Making Formula in 20 Days)

		<ul style="list-style-type: none"> ➤ Purple Corn ➤ Red Rice ➤ Black Rice ➤ Lakadong (North East Origin) Turmeric) ➤ Dragon Fruit ➤ Passion Fruit <ul style="list-style-type: none"> ➤ Medicinal and Aromatic Crops 1. Occimum Gratisimum (AfricanBasil) 2. Artemisia 3. Cymbopogon Martini 4. POP for Exotic Vegetables like Broccoli, Red Cabbage, Lettues 		
1.	Collaborators/partners	<ul style="list-style-type: none"> 5. Anand Agriculture University 6. Innovative Eco Care Pvt. Ltd. 7. Krushi Vardhan Kendra 8. Agro Economic Research Center (GOI) 9. Gujarat Horticulture Department 10. ETG World Wide 11. Jang May International 12. NABARD 13. AITC, Anand 14. MGET, Anand 15. GVS 	<ul style="list-style-type: none"> 16. Kelson Foods Pvt. Ltd. 17. Shree Mamech Projects INC. 	<ul style="list-style-type: none"> 18. Innovative Eco Care Pvt. Ltd. 19. Mervriq INC.
2.	Target region(s)	Central Gujarat	Central Gujarat	Central Gujarat
3.	Demonstration of Technology	3723	421	647

4.	Relevant Skill development/ capacity building	3628	796	370
5.	New (existing for clusters only) entrepreneurs nurtured	97	5	5
6.	New Enterprise created	70	37	09
7.	Total employment generation	1175	521	95
8.	Turnover (with basis of calculation)	6.60 CR	12.70 CR	1.88 CR
9.	Social changes brought, if any	1. Increase in Income from Agriculture YoY 2. Decreased Expenses on Agriculture by Scientific Package of Practices 3. Control over human diseases linked to pesticides 4. Awareness towards Non Pesticide Produce and Organic Produces 5. Increase in Job Opportunities because of Skill enhancement in youth	1. Increase in Income of entrepreneurs 2. Improvement in Food Quality Standards 3. Increase in Shelf Life of the products	1. Decreased Air pollution because of Agri waste processing 2. Improves Health and Hygiene due to Waste Processing 3. Income generation from the waste

13. Give photograph of Isted office facilities created and entrepreneurship unit installed in project through Isted support.

Office & Training Centers of the Institution :

1.Administrative Block 5, (RDF)

Aakashdeep Bunglows, Bh. Uma Bhavan, Jitodia Road, Anand

2. iSTED Training / Incubation Center (RDF)

RDF, Opp. Mother Care School,
 Bhawanipura Road, At. Post BHUMEL
 Nadiad, Kheda

4. iSTED Technology Training / Demonstration & Nursery Production Center

Israma, Block : Petlad, Anand

5. iSTED Nursery Seed Bed Training / Support Center

Near Panchayat Bhawan, Khadiyarpura, Block Matar, Dist. Kheda

Training Hall & Incubation Center of RDF :





**iSTED Technology Training / Demonstration & Nursery Production Center (Net House and Poly House)
: in 1 Acre : During Soil Enhancement Treatment (In Situ Microbial Process) at Israma, Petlad**



During Crop Demonstration



**ISTED Nursery Seed Bed Training / Demonstration / Support Center
Khadiyarpura, Matar, Kheda District**



**Expeller for Compost Making from Agricultural Waste :
Capacity 200 Kg. Per Hour
At Israma, Petlad Training / Demonstration Center**



**Low Temperature Grinder for Turmeric, Ginger Etc.
At Israma, Petlad Training / Demonstration Center**



**Multi-Purpose Disc Harrow
At Israma, Petlad Training / Demonstration Center**

14. Complete list of entrepreneurs with address business unit (all contact details).

[Annexure A \(In Excel Format\)](#)

[Annexure A1 \(In PDF Format\)](#)

15. Year wise details of the funds received and utilized in Capital and Recurring grant.

Item	F.Y-2015-16		F.Y-2016-17		F.Y-2017-18		F.Y-2018-19		F.Y-2019-20		F.Y-2020-21		F.Y-2021-22	
	Sanctioned	Utilized	Sanctioned	Utilized	Sanctioned	Utilized	Sanctioned	Utilized	Sanctioned	Utilized	Sanctioned	Utilized	Sanctioned	Utilized
Recurring (Operating Expenses)	50,10,000	NA	50,10,000	50,52,738	51,73,751	52,05,026	54,55,000	54,68,745	56,65,000	56,70,500	59,00,000*	31,96,850**	NA	27,08,280
Capital (Cost of Acquisition, Demonstration, Deployment and Training)	10,00,000	NA	10,00,000	10,17,950	4,82,050	4,99,930	NA	NA	NA	NA	NA	NA	NA	NA
Total	60,10,000	NA	60,10,000	60,70,688	56,55,801	57,04,956	54,55,000	54,68,745	56,65,000	56,70,500	59,00,000	31,96,850	NA	27,08,280

*	(50,00,000 Released on 15-01-2021)
**	(17,83,905 Carry Forwarded for the Extension Period (Year2021-22)

16. Include all the audited Utilization Certificate financial year wise submitted to DST with interest receipt of Bharat Kosh and Consolidated Statement of Expenditure (from date of Start to Date of completion of the project).

[Annexure B \(Utilization Certificates\)](#)

[Annexure B1 \(Receipts of Bharat Kosh\)](#)

17. List of equipment purchased in the project with a certificate the rules of GFR 2017 followed while purchasing the equipments.

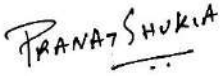
- 1. Expeller for Compost from Agricultural Waste
Capacity 200 Kgs. Per Hour**
- 2. Low Temperature Grinder For Turmeric, Ginger Etc.
Capacity 100 Kgs. Per Hour**
- 3. Multi-Purpose Disc Harrow**
- 4. Net House / Seed Bed - Materials, Equipment for the Technology Demonstration/Training**

[Annexure B1 Certificate](#)

18. Any other information you wish to add.

Glimpses of ISTED Activities

Annexure C

Handwritten signature of Pranav Shukla in blue ink, with the name written in a stylized, cursive font.

Signature of the project in-charge

Handwritten signature of the Head of the Institution in blue ink, featuring a circular initial followed by a cursive name.

Signature Head of the Institution

Note : Certificate to be enclosed with the report

Annexure D