

Village 1

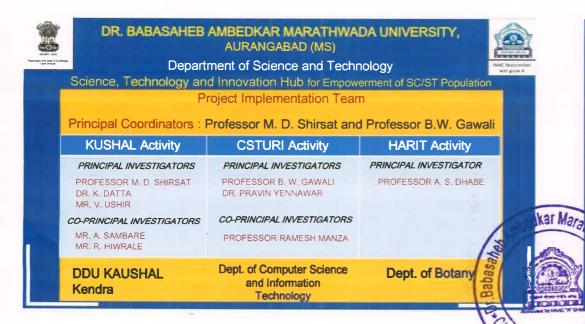
Village 2

Village 3

Village 4

Village 5

Village 6





Malrapati Sambhail



## CONCEIVING INTERVENTION- ROADMAP

#### Identification of regions on basis of SC/ST population

Tools -Preliminary study through census data

Regular meetings with NGOs

Villages undertaken for intervention finalized based on extreme socio-economic condition of SC/ST community

> Tools -Meetings with village level officials

Campaigns in SC/ST colonies in identified villages

Meetings with persons having root level connection with SC/ST community

#### In-depth Study on livelihood of SC/ST Community in target villages

Tools -Extensive door-to-door outreach

Identification of Root Cause of misery and distress

Tools - i. Brainstorming sessions in association with Janki Devi Bajaj Gram Vikas Sanstha (NGO)

Interventions planned

Tools -Brainstorming sessions with NGOs ii.

Exercise of own expertise area

## PROBLEM(S) IDENTIFIED

- Working population among target beneficiaries are -
  - (i) Working as daily workers in cultivation land of others
  - (ii) Going to nearest township (Kannad/ Aurangabad) for daily jobs in purely unorganized sectors
  - (iii) Devoid of any alternative livelihood skills
  - (iv) Suffering from inferiority complex to merge themselves with professional life of cities/industries

#### Above leads to hand to mouth situation

- Continuous threat -
  - (i) Unpredictable atmospheric behaviour (extensive flood 2019-21; extreme draught 2016-2018)
  - (ii) Unorganized job sectors do not offer long term security
- Many female members of such families are working as house maids.
- Those who want to aquire skills in some format to become elligible for jobs in Aurangabad based industries, cannot afford to bear the cost of training.

## PROJECT OBJECTIVE

- √ To bring the non-working population of SC/ST community from target region to a socio-economically respectable platform
- √ To provide Skill based Training for generation of alternate livelihood (in domains with local opportunity)
- WJ-Dr.Babaca ✓ Training to at least one member of a family where there is no perennial source

(to cater maximum strata of household)



## Salient Achievements

## **Awareness Program Conducted**

Village	KUSHAL	CSTURI	HARIT	TOTAL
1 & 4	13	11	5	29
2 & 5	15	11	07	33
3 & 6	11	09	04	24
			Total	86

## **Number of Participants in Awareness Program**

KUSHAL	CSTURI	HARIT	TOTAL
1214	1554	829	3597

## Salient Achievements

## **Direct Beneficiary Details**

Village	KUS	SHAL CSTURI		TURI	HARIT		TOTAL
	Male	Female	Male	Female	Male	Female	
1 & 4	90	01	88	71	39	22	311
2 & 5	139	39	116	90	71	61	516
3 & 6	28	33	35	44	28	18	186
						Total	1013

Female: 37 %

Male: 63 %

## Salient Achievements

## **List of Training Domains**

#### KUSHAL

- · Household Wiring and Pump Repairing
- · 2-wheeler servicing
- Pollution Under Control
- · Solar Panel and Pump Installation
- · Automated Irrigation for Cultivation Land
- · Industrial Robotics (Adv. Course)
- · Wheel Alignment and Balancing (Adv.
- · Training of PLC and Control Panel (Adv. Course)

#### **Electrical & Automobile**

#### **CSTURI**

- · Basic Computer Skill
- Open Office
- · Desktop Publishing
- · Graphic Design
- Network Design
- Computer Animation
- Computer Maintenance
- Mobile Maintenance
- · Software Testing
- · Network Administration
- Mobile App. Development
- · Internet of Things
- · Linux Administration

#### **Computer Technology**

## HARIT

- Cultivation of Medicinal
- Collection of Medicinal
- Development of new herbal formulations

**Agriculture** 



## Salient Achievements

### Small Enterprise/ employment Generation

Entrepreneurial ventures	10
Employment Generation	92

#### **Alternate Livelihood Creation**

KUSHAL	08
CSTURI	05
HARIT	02
Total	15

## Improved Linkages with Market

KUSHAL	07
CSTURI	03
HARIT	06
Total	16



## Salient Achievements

## Science & Technology Intervention

KUSHAL	08
CSTURI	08
HARIT	02
Total	18

## IMPACT OF ACTIVITIES UNDERTAKEN

- Now villagers have understood the importance and significance of skill based training for creation of alternate livelihood
- Their Interest towards entrepreneurship and starting enterprise has been considerably increased
- Significant number of farmers are inclined to adopt scientific methods of farming
- Their Interest towards cultivation of medicinal plants has also been increased
- Socio-Economic status of SC/ST community has been enhanced

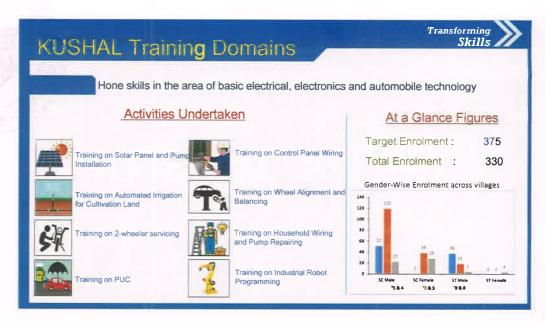
## **Proposed Future Activities**

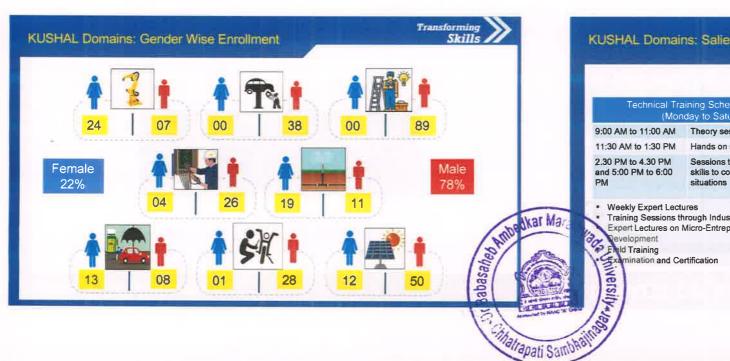
- Short Term Skill based program based on the infrastructure created under this project would be implemented in respective University department
- Students from SC/ST community would be allowed to join free of cost
- Revenue generated through fees collected from other students would be utilized for recurring expenses of the activities

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# KUSHAL Activity









## KUSHAL Activity @ Chikalthan & Nagad

# Transforming Skills

#### Glimpses of Major Achievements

Mass Awareness Programme:	13
Participants involved in awareness:	689
Total Beneficiaries:	91
Household involved:	67

Sr. No.	Activities	No. of Traintees
1	Automated irrigation for cultivation land	09
2	Domestic electric wiring and pump repairing	34
3	Solar Panel Installation	41
4	Vehicle servicing	07





## KUSHAL Activity @ Narsingpur & Lohgaon



#### Glimpses of Major Achievements

Mass Awarenes	s Programme:	15
<ul> <li>Participants invo</li> </ul>	*	369
<ul> <li>Total Beneficiari</li> </ul>	es:	178
<ul> <li>Household invo</li> </ul>	lved:	168
Sr No.	Actories	No of Trainess

r	Hous	enoid involved:	168	
Щ	Sr. No.	Activities	No, of Trainees	
ľ	1	Automated imigation for cultivation land	10	
Г	2	Domestic electric wiring and pump repairing	36	
	3	Solar Panel Installation	10	
L	4	Vehicle servicing	13	
ı	5	Pollution Under Control	10	
L	6	Industrial Robotics	31	
П	7	Wheel Alignment and Balancing	38	
L	8	PLC and Control Panel	30	



## KUSHAL Activity @ Andhaner & Deogaon

# Transforming Skills

## Glimpses of Major Achievements

•	Mass Awareness Programme:	11
×	Participants involved in awareness:	156
	Total Reneficiaries:	61

Total Beneficiaries:
 Household involved:

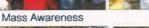
Sr. No.	Activities	No. of Trainees
1	Automated irrigation for cultivation land	11
2	Domestic electric wiring and pump repairing	19
3	Solar Panel Installation	11
4	Vehicle servicing	09
5	Pollution Under Control	11





## Glimpses of Activities







Door to Door Awareness



Beneficiary at Field



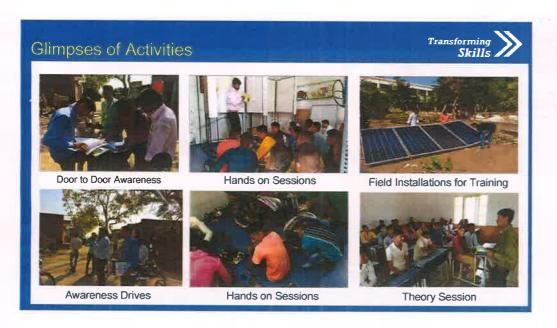
Exhaustive Hands on Sessions



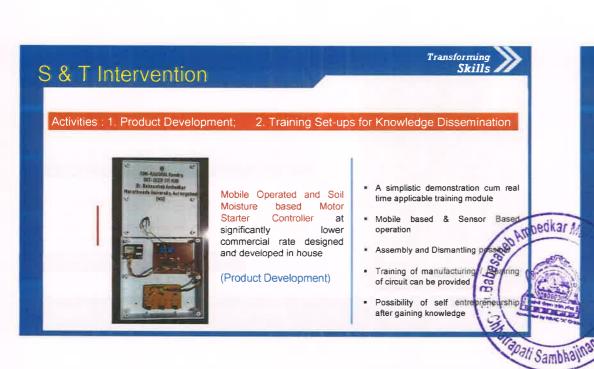
Electrical Repairing Shop



Garage & Spare Parts Shop









S & T Intervention

# (Knowledge Dissemination)

 A realistic training module for training in household wiring

Transforming

- Net-Meter and Mains wiring possible
- Concealed and Conduit wiring possible
- Staircase wiring possible
- · Multi socket assemblies , ceilinn fan wiring possible
- Scope of Inverter and solar panel linking

## S & T Intervention

#### Transforming Skills

Activities: 1 Product Development; 2. Training Set-ups for Knowledge



Specialized Training Equipment for PLC programming Training (In-house designed and developed) (Knowledge Dissemination)

- Fully industry grade training panel
- Training in basic automated control operation in industries possible
- Training in Discreet Control Possible
- Training in Continuous control possible
- Training with Interfacing of real time units

## S & T Intervention



Activities: 1. Product Development; 2. Training Set-ups for Knowledge



Specialized Training Equipment for Control Panel Wiring Training (In-house designed and developed) Installed at DDU-KK (Knowledge Dissemination)

- Fully industry grade training panel
- Training with main busbar wiring possible
- Training safety switchgears possible
- Training with 3 phase motor wiring possible
- Training with motor safety switchgear possible
- Training with interfacing of CT, and meters possible

## S & T Intervention

## **Transforming**

Activities: Training Set-ups for Knowledge Dissemination



Specialized Training Equipment for Complete Solar Panel and Solar Pump Installation Set Up (In-house designed) (Knowledge Dissemination)

- · Fully industry grade training panel for 1 KW generation
- Training with panel installation possible
- Training with solar panel interfacing with solar inverter battery possible

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Papati Sambaa

- Training with installation of salaroupp possible
- On-grid and off-grid installationstraining 83 possible 10.00

## S & T Intervention

Outcome of S & T Research (Inprocess)

Prototype under development

Specialized Training Equipment for Vehicle Exhaust Alarm Machine (In-house designed and developed)

(Knowledge Dissemination & Possible Product)

Transforming Skills 4

An innovative set up for actuation of alarm in case of excessive emission of prescribed pollutants from two wheeler exhaust

# KUSHAL Activity



## Activities: Training Set-ups for Knowledge Dissemination



Special Purpose Vehicle for purpose of mobile training (In-house designed and Developed) (Knowledge Dissemination & Possible Product)

- Taking the lab to remote rural areas
- The special purpose vehicle houses a modular lab containing training scopes in-
- Solar power
- PLC programming
- PUC operation
- Automated irrigation equipment
- Two wheeler engine operation demonstration
- Household wiring
- Basic robot operation demonstration



#### Output Indicators (Cumulative Figure)

Sr. No:	Output Indicator	Outcome	Remark
01	New technologies/ techniques/ tools/processes developed	01	Low Cost Exhaust Tester is outcome of Research towards low cost detection of vehicle pollution
O2	Technologies/ techniques/ tools deployed (existing technologies)	06	Science and Technology Van Mobile Operated Irrigation Pump Controller (Trainer Set Up and Product) Domestic/Household Wiring Training Setup Mobile Solar Panel, Pump and Inverter Installation Training Set Up Programmable Logic Controller Trainer Panel Control Panel Wiring Trainer Set Up
03	Technologies field tested (new and modulated technologies)	06* *Considering Covid-19 combat technologies developed	Community Level hand sanitizer dispenser     Personal Hand Sanitizer Dispenser     Foot Operated Door Opener     Sanitizer Dispenser Tunnel     UV Germicidial Box     Low Cost Emergency Light

## **KUSHAL** Activity

Transforming

#### Output Indicators (Cumulative Figure)

90:	Output Indicator	Outcome	Remark
	Fechnologiesthat can be ransferred / commercialized	01	Mobile Operated Irrigation Pump Controller
05 N	Manuals prepared	10	
06 IF	PR generated	01 (Submitted) 01 (In process)	Design application has been submitted for community level hand sanitizer dispenser     Patent is in process of submission for 01 intervention
٠,	Awareness leaflets,COVID - 19 Handbookdevelopedandpublished	02	alone I
08 S	Short Duration Video	33	ap Amberdan

# KUSHAL Activity @ COVID - 19

COVID - 19 : Technologies Developed



Low Cost Emergency

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Sanitizer Tunnel





**UV-Disinfection** Chamber

Transforming **Skills** 



Foot Operated Door Opener/Closer



## **Prominent Success Stories**

Transforming Skills

Creation of employment opportunities- 78

Service and Installation in the field of Domestic Electric Wiring/Appliance Repairing	07
Professional Electrician	24
Agricultural and Domestic Pump Repairing	08
2 - Wheeler Servicing	14
Solar Panel Installation	12
Selling and Maintenance of Automated Irrigation Machine	06
PLC based Control Panel Technician	05
Wheel Alignment and Balancing	03



## **Linkages Created**

Linakges Created for Training and employment generation- 07

- Samarth Enterprises, Aurangabad (For Solar Installation domain job opprtunities)
- Agro Sakal , Aurangabad ( For Electrical House-Hold Wiring domain job opportunities)
- Hero Motor Corp, Aurangabad ( For 2 Wheeler Servicing related opportunities)
- Aarohan Technologies, Aurangabad (for PCC/ MCC panel related opportunities)
- Sumannajali Enterprises, Aurangabad (for PLC based Control Panel related opportunities)
- Adinath Enterprises, Aurangabad (for Industrial Robotics programming and maintenance related opportunities)
- Overall support towards placement of trained candidates in requisite domains has been assured by MASSIA (through benevolent support of Mr. D. Athwale, Member of SC/ST High Power Committee (MSME))



Transforming



## **Prominent Success Stories**

Micro-Entrepreneurship Generated 03 (06 employments generated)







2 Wheeler Garage at Chikalthan



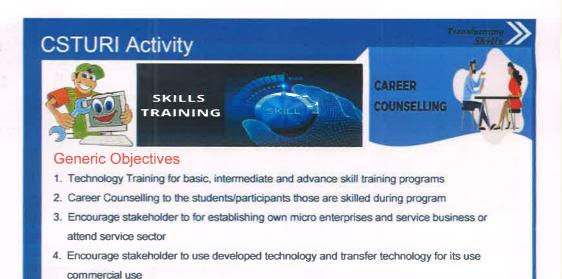
Transforming

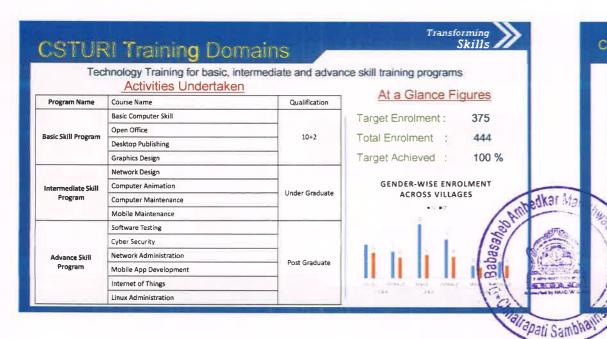
2 Wheeler Garage at Narsingpur

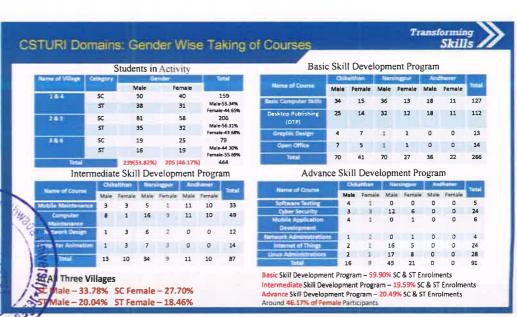
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# **CSTURI** Activity







## CSTURI Domains: Salient Training Features.

Transforming 5kills

Training sessions: 07 days in a week.

Classes used to start from morning 7:00 AM

There were 07 sessions conducted regularly;

Every Sunday we have taken extra lecture slow learner and fast learner. Special Sunday lecture Series for student.

(A) 7:00 AM to 08:30 AM (B) 08:30 AM to 10:00 AM (C) 10:00 AM to 11.30 AM

(D) 11:30 AM to 01:00 PM (E) 02:00 PM to 03:30 PM (F) 04:00 PM to 05:30 PM

(G) 05:30 PM to 07:00 PM

While the morning and half of late afternoon sessions were dedicated for theoretical training and demonstrations, rest of the sessions were completely hands —on. The last hour used to be the wrapping up session.

## CSTURI Activity @ Chikalthan & Nagad



#### Glimoses of Major Achievements

- Mass Awareness Programme: 11
- Participants involved in awareness: 689
- Total Beneficiaries: 159
- Household involved: 63

Sr. No.	Activities:	No of Trainees
1	Basic Skill Development Program	111
2	Intermediate Skill Development Program	23
3	Advance Skill Development Program	25





## CSTURI Activity @ Narsingpur & Lohgaon

#### Glimpses of Malor Achievements

- Mass Awareness Programme: 11
- Participants involved in awareness: 655
- Total Beneficiaries: 206
- Household involved: 83

Sr. No.	Activities	No. of Trainnes.
_ 1	Basic Skill Development Program	97
2	Intermediate Skill Development Program	43
3	Advance Skill Development Program	66

# Transforming Skills





## CSTURI Activity @ Andhaner & Deogaon

#### Glimpses of Major Achievements

- Mass Awareness Programme: 09
- Participants involved in awareness: 210
- Total Beneficiaries: 79
- Household involved: 52

Sr. No.	Activities	No. of Trainess
1	Basic Skill Development Program	58
2	Intermediate Skill Development Program	21
23	Advance Skill Development Program	00
5		
8		
2		





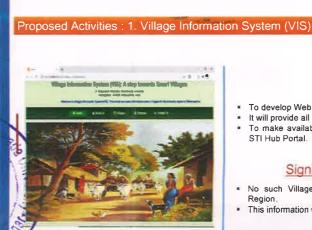


"Spati Sambhall"







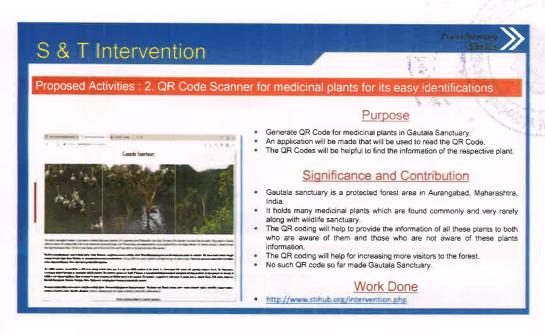


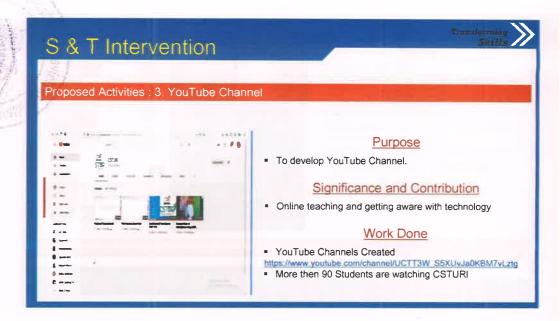
## Purpose

- To develop Web based GIS Application for Village.
- It will provide all relevant information at the click of the button.
- To make available this information on the Bhuvan Web site and STI Hub Portal.

## Significance and Contribution

- \* No such Village Information System is made in Marathwada
- . This information will also available on Bhuvan website.





Purpose

• To provide the weather details of the

Significance and Contribution

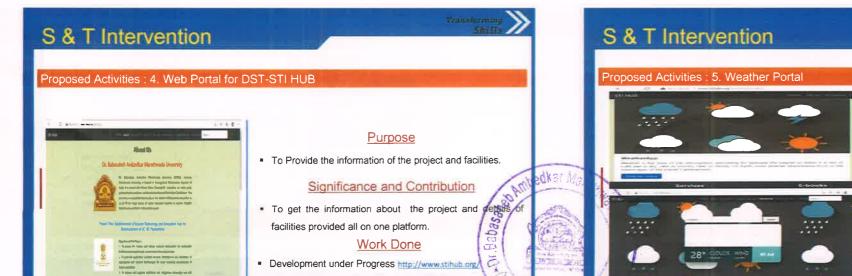
People should be updated with the weather and

Work Done

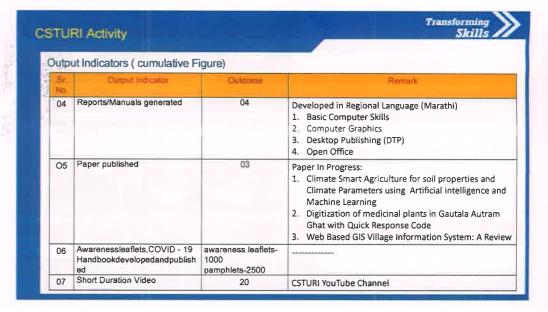
http://www.stihub.org/intervention.php

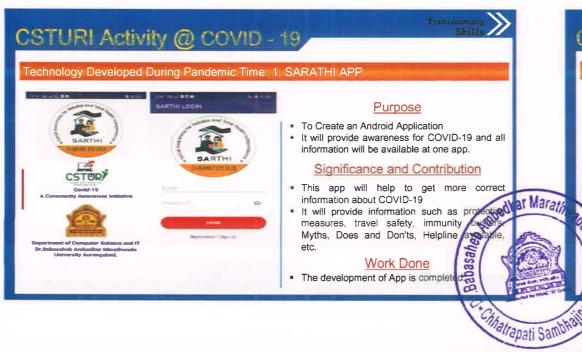
can make the better decision.

location/village.



#### **Transforming CSTURI Activity** Skills Output Indicators ( cumulative Figure ) Output Indicator Outcome Remark 01 New technologies/ techniques/ 05 1. Village Information System tools/processes developed 2. QR Code Scanner for medicinal plants for its easy O2 Technologies/ techniques/ tools 05 identifications deployed (existing 3. YouTube Channel technologies) 4. Web Portal for DST-STI HUB 5. Weather Portal Technologies field tested (new 08\* 1. Village Information System "Considering Covid-19 combat technologies developed and modulated technologies) QR Code Scanner for medicinal plants for its easy 3. YouTube Channel 4. Web Portal for DST-STI HUB 5. Weather Portal 6. SARATHI APP 7. MAZISHALA APP 8. KRISHI SETU APP







### Purpose

To provide "School From Home"

#### Significance and Contribution

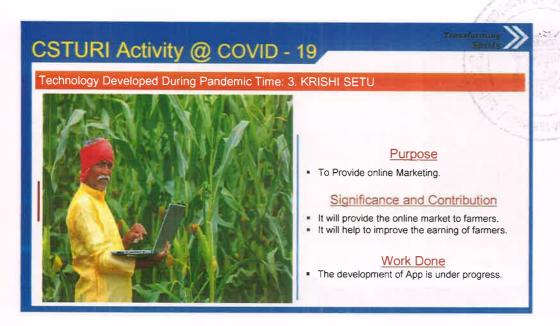
- Education of the students will not suffer even in Lockdown or Pandemic period
- Students will be able to download and study the syllabus as per there area and school.

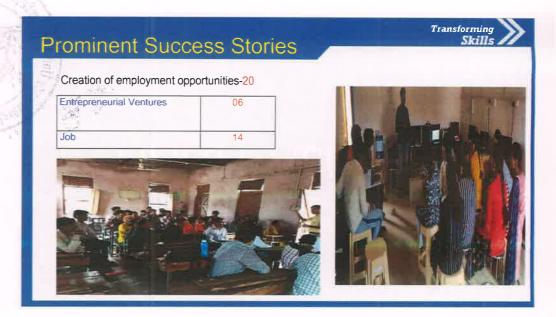
### Work Done

The development of App is completed and available on Play Store.

#### Output

The development of App is completed.



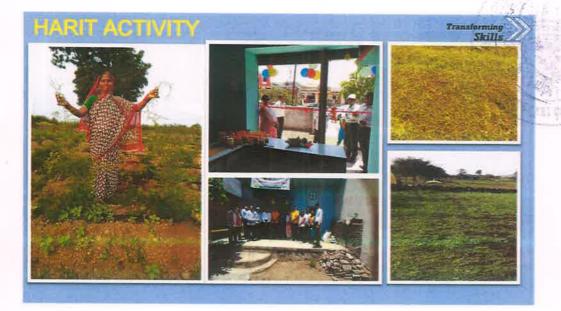












## LECTIVES: HARIT ACTIVITY



- Spreading traditional knowledge of the medicinal plants
- · Training for sustainable collection of medicinal plants from the wild habitats.
- · Training for sustainably cultivation and harvesting of medicinal plants in the agriculture land.











## **Generic Objectives**

- 1. Cultivation of Medicinal Plants in the Agriculture land.
- 2. Sustainable collection of Medicinal Plants from the wild habitats.





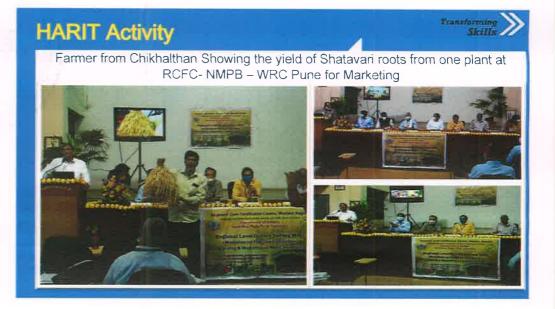


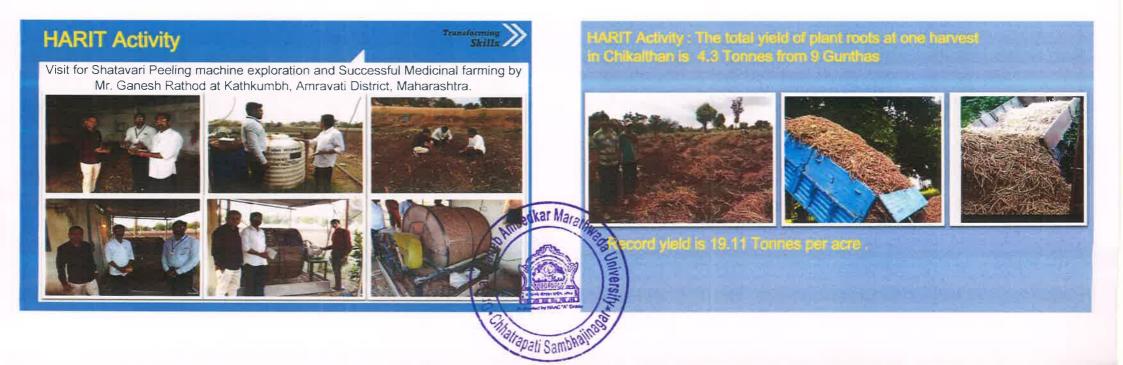
Sr. **Projected Deliverables** No. Awareness Programme 07 Enrolment of Farmers 61 Cultivation of Shatavari 08 06 Cultivation of Ashwagandha. 53 Sustainable collection of Medicinal Plants from the wild

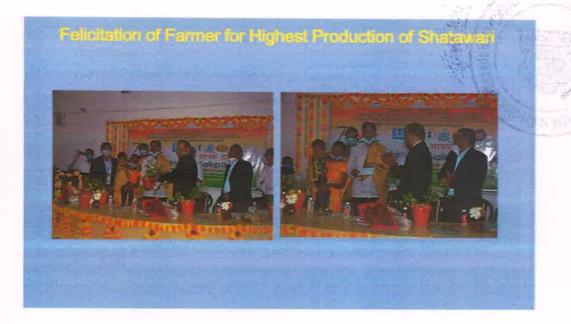
HARIT Activity @ CHIKALTHAN & NAGAD

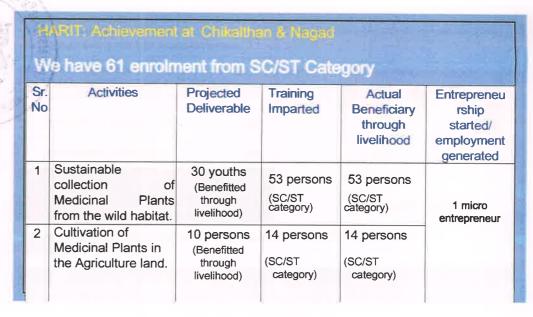
Objective -1 Cultivation of Medicinal Plants in the Agriculture land. Progress till Date Target Enrolment: 125 Total Enrolment : 61 Enrolment

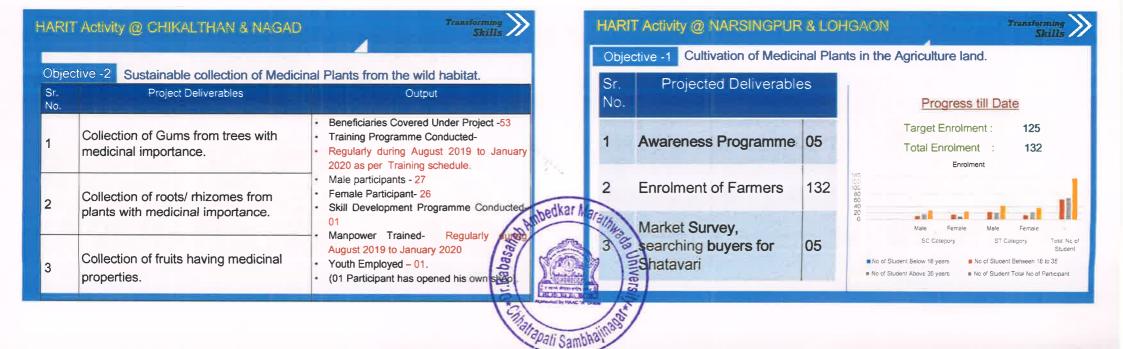


















Awareness and meeting with local





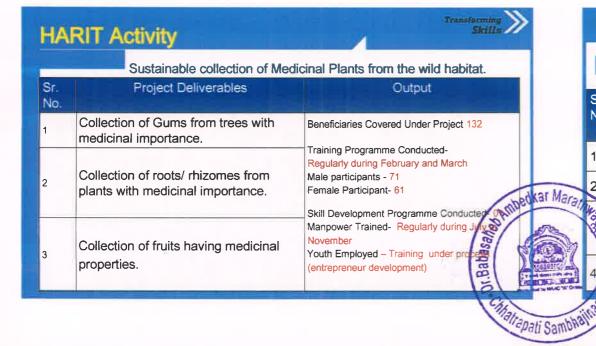


Lectures on Ayurveda By Prof. A. S. Dhabe





Shopopening by Sanjay Birhare



Objective -1 Cultivation of Medicinal Plants in the Agriculture land. Projected Deliverables Sr. No. 04 Awareness Programme 46 Enrolment of Beneficiaries Distribution of Anantmul, Adulsa, 14 Sonamukhi, Gulwel and Sarpagandha pants to Farmers Soil testing of samples of farmers field in collaboration with CSTURI

HARIT Activity @ ANDHANER & DEOGAON

Progress till Date Target Enrolment: 125 Total Enrolment : 46 Enrolment No of Student Below 18 years # No of Student Above 35 years.

# **HARIT Activity**

Objective -2 Sustainable collection of Medicinal Plants from the wild habitat.

Sr. No.	Project Deliverables	Output
1	Collection of Gums from trees with medicinal importance.	Beneficiaries Covered Under Project 46  Training Programme Conducted-
2	Collection of roots/ rhizomes from plants with medicinal importance.	Regularly during Male participants - 27 Female Participant- 19
3	Collection of fruits having medicinal properties.	Skill Development Programme Conducted- 01 Manpower Trained- Regularly January to Jun 2022 Youth Employed – Training under process (01 Micro-entrepreneur devalopment)























Cultivation of Bramhi at Mr. Rajendra Satdive's Field







Sustainable collection of Gloriosa superba roots and Anantmool from Gautala Forest







Awareness program (Door to Door







Cultivation of Anantmul

## S & T Intervention

Proposed Activities: Objective 1: Spreading Knowledge for sustainable collection of Medicinal parts of plants.



#### Purpose

To transmit Knowledge of medicinal plants from one to next generation.

## Significance and Contribution

Participants will understand the properties and uses of medicinal plants in their common disorders.

#### Work Done

Work Done
beneficiaries are trained for sustainable collectors
Medicinal parts of plants by keeping ecofriendly
approach.

## S & T Intervention

Proposed Activities: Objective 1: Sustainable farming of medicinal plants in agriculture land.

## **Purpose**

• To train farmers towards rotation of crop plants with medicinal plants to increase their income and maintain soil fertility.

## Significance and Contribution

The demand of Medicinal plants is continuously increasing and their cultivation in agriculture land has been proved to be economically beneficial to the 14 Farmers.

## Work Done

14 Farmers from Chikalthan were trained for sustainable farming Shatavari. 14 Farmers of Andhaner have cultivated Anantmul, Adulsa, Sonamukhi, Gulwel and Sarpagandha plants medicinal plants in their field for 2022 2022



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_	ereduce in consessors
	Output
*0	Report/ Manuals Generated - 01
•0	Number of micro-enterprises created
	02
	Ayurvedic Ayushadhi Vikri Kendra
	Shree Swami Samartha Ayurvedic
	Ayushadhi
•	Number of youth/women Trained through project interventions : 239

Village name	Male	Female
1 & 4 (61 Beneficiary)	39	22
2 & 5 (132 Beneficiary)	71	61
3 & 6 (46 Beneficiary)	28	18

Livelihood Diversification (Farmand Non-Farm): Agriculture

Increase in household income: 80-90%

Outcome

- · Increase in crop productivity about 100%
- . 14 Farmers from Chikalthan and 14 Farmers trained to cultivate Brahmi Anantmul, Adulsa, Sonamukhi, Gulwel and Sarpagandha crops.
- Total 239 candidates have joined the \* 02 Participant after training course. Out of them 231 are able to identify, collect medicinal plants.
- Number of Entrepreneurs created: 02

 Traditional knowledge of Various Medicinal plants and their uses made available to farmers and beneficiaries.

Impact

- · Beneficiary got Primary health care knowledge regarding common disorders and their home remedies.
- had set up own herbal shops
- Other farmers get attracted towards medicinal farming than the traditional farming.

## **Linkages Created**



- Dhoot papeshwar Pvt. Ltd. Panvel, Navi Mumbai
- Sandu Pharmaceuticals, D. K. Sandu Marg, Chembur Mumbai 400071
- Dhabe Herbals, Pvt. Ltd., Jetvan Colony, Aurangabad 431002
- RCFC, Regional- cum Facilitation centre, National Medicinal Plant Board, WRC Pune for Marketing.

12 Farmers of Andhaner have cultivated Anantmul, Adulsa, Sonamukhi

Krishi Doot Vishwa Vikas Foundation.

## Success Story





Shop Opening at Chikalthan and Andhaner













in their field for 2022-2023





# Thank You

## Action Taken on basis of Recommendation by Experts

Transforming

Consideration of gender neutrality, inclusion and equity in selection of beneficiaries

#### Action Taken:

- All inclusive awareness drive
- Inclusion of NGOs in sensitization.
- Inclusion of noted female social activist in awareness generation.
- Special workshop on 'Women Entrepreneurship' by NGO expert.











Views of workshop on women entrepreneurship by Pragati Foundation (NGO collaborator)



## Action Taken on basis of Recommendation by Experts

Recommendation

: Organization of a VC towards connecting NGOs with PAC

members

#### Action Taken:

A virtual meeting was held on 6th 2021 through February, conferencing (VC) mode to connect the NGOs with few selected members of PAC for hand holding and project development



Screen Shot of the Video Conferencing held on 6th February, 2021



