# Institutional Distinctiveness

RHRDF Human & Resource Development Facility DAE Outreach Centre RGSTC Govt. of Maharashtra, BARC Mumbai & SVERI Pandharpur.



### Shri Vithal Education & Research Institute's DLLEGE OF ENGINEERING, PANDHARPUR

ाचायत कार

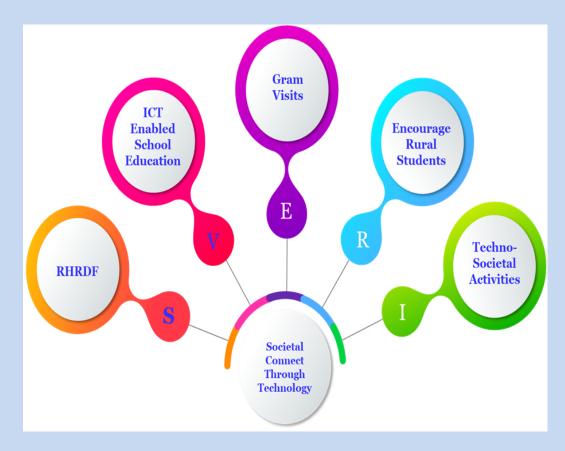
Approved by A.I.C.T.E., New Delhi NBA Accredited all Eligible UG Programmes Accredited by NAAC, The Institution of Engineers, Kolkata, TCS, Pune, An ISO 9001 : 2015 Certified Institute Affiliated to Punyashlok Ahilyadevi Holkar Solapur University, Solapur

P.O. Box No. 54, Gopalpur - Ranjani Road, Gopalpur, PANDHARPUR Pin - 413 304, Dist. Solapur (Maharashtra) Website: www.sveri.ac.in Email ID: coe@sveri.ac.in



#### Societal Connect Through Technology

SVERI's College of Engineering, Pandharpur is committed to social welfare and understands its responsibility towards development of society. The institute is located in the vicinity of rural area. The institution strives to improve the socio-economic condition of the region. Looking towards these aspects, institute has built societal connect through technology through various societal activities as follows:



#### Societal Connect through various activities

# Rural Human Resource Development Facility (RHRDF)

#### **Rural Human Resource Development Facility (RHRDF)**



Development of demonstration and cum-training facilities at CILLAGE Hon. Padma Vibhushan Dr. Anil Kakodkar, Director, BARC, Shri. Ajit Patankar, Member, RGSTC Mumbai.

### **CILLAGE: Best of City in a Village**

• Set up a CILLAGE at a higher technical institution or a university in a rural domain in the Block

• Set up a number of Akrutis- technology demonstration/ practice centres , in surrounding villages

## Best of the **C** i t y Best of the V i l l a g e

#### Creates

## Cillage

#### From Group of Villages for Healthy Work – Living Environment



To minimize the gap between Urban and Rural area CILLAGE is must.

To Bring the concept in reality first pilot project in India was started at Pandharpur Under the guidance of Hon. Padma Vibhushan Dr. Anil Kakodkar, Director, Bhabha Atomic Research Center (BARC) and his Co-Worker Shri. Ajit Patankar, Member, RGSTC Mumbai.



Inauguration of RHRDF center, by Hon. Padma Vibhushan Dr. Anil Kakodkar, Director, BARC and Shri. Ajit Patankar, Member, RGSTC Mumbai.



To Initiate the CILLAGE program SVERI institute was selected due to its excellent academic record and tendency of societal work.

#### Societal Connect Through Technology



#### Signing MoU With BARC Mumbai

#### (Dr. Sinha then BARC Director and others 15 Sept 2012)

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BHABHA ATOMIC I	ENT OF INDIA RESEARCH CENTRE & COLLABORATION DIVISION
Technology Transfer of following four 1. NISARGRUNA a biogas plant based 2. Foldable Solar Dryer 3. Soil Organic Carbon Detection Kit	technologies: d on biodegradable waste
4. Vibro Thermal Disinfestor	3
	Date: September 15, 2011
The AKRUTI Tech Pack Document (ATPD) consisting of above technologies is	
nanded over to Shri Vitthal Education &	Research Institute, Gopalpur-Rajani Road,
Gopalpur, Pandharpur, Dist. Solapur, Mahara	ashtra, Pin-413304, on September 15, 2011
with a non-exclusive perpetual license to u	tilize the know-how provided in the document
under the framework of MoU signed on Septe	amber 15,2011 between BARC and SVERI for
Setting up Rural Human and Resource	Development Facility (RHRDF) at SVERI
Campus, Gopalpur, Pandharpur. The compositi	on of ATPD is given in Annex-A
This document has been prepared as a g	guideline document for above technologies.
Demonstration of the technologies was arran	ged for SVERI at existing AKRUTIs who are
Licencee/ Users of these technologies. BARC	will provide technical guidance and advice
of Two mandays for each technology for d	eployment in rural sector as per the above
mentioned MoU.	
Encl. (i) AKRUTI Tech Pack Document (AKRU) (ii) Annex-A	Ti Technology Package for Rural Deployment)
For and on behalf of Bhabha Atomic Research Centre Mumbai, MS	For and on behalf of SVERI, Pandharpur, MS
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#### **Integration with RHRDF**

BARC Technology Demonstration facility for agricultural and rural employment generation.

#### > Key Objectives of RHRDF

- Demo facilities of BARC technologies.
- Training centre for various technologies.
- R&D for rural and agricultural technologies using SVERI Human resources.
- Technology implementation in villages using the AKRUTI module of BARC.

#### ➢ Integration

- Small life skill projects.
- Maintaining online RHRDF data & course work.
- Organizing talks/courses for farmers through NKN Wi-Fi connectivity.

### **Preliminary Investigations**

#### **People's needs**

Farm waste management and compost manure development

Potable drinking water

Soil testing not available locally

Farming-related training and information network

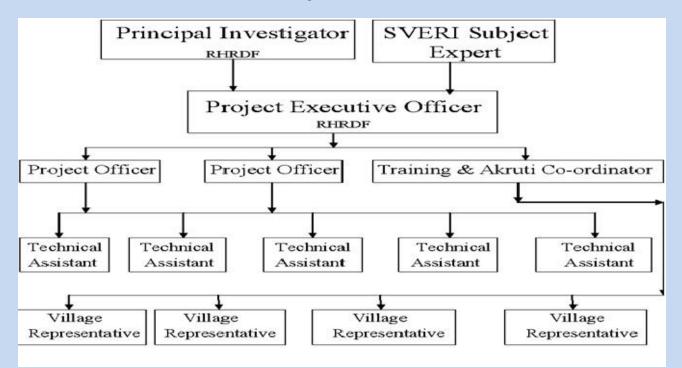
#### **Projects identified**

NISARGRUNA, biogas technology

Water technologies: domestic and community water filter

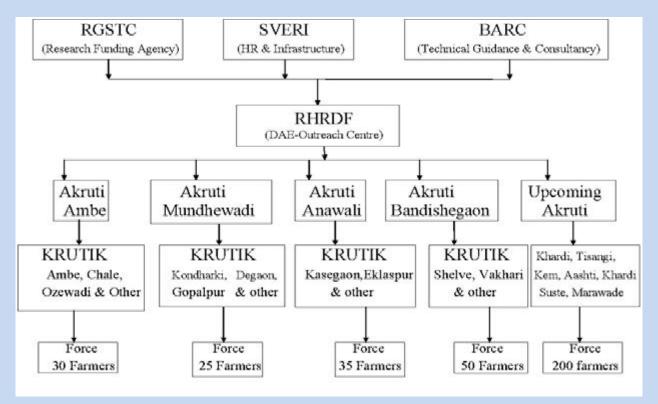
Soil Organic Carbon testing kit

With the help of NKN, training session of experts can be arranged at Rural Human and Resource Development Facility (RHRDF)



#### **Project Team**

#### **Project Implementation**



#### **Objectives of the Project:**

- To develop training facility for rural and agricultural technologies and research programme for making advancement in technologies initially accessed from BARC and development of other similar technologies.
- To deploy technology from laboratories to the field through village centers of CILLAGE.
- To develop an incubation centre for high-tech products for the rural and agriculture sector.
- To encourage technological workforce to get involved in local problems.
- To develop science and technology culture in the rural sector.

#### To develop training facility:

- Working space of about 30000 sqft, which include labs, office space and small training hall
- Demo Facilities of soil organic carbon testing lab, water technology lab, seed bank, Nisargruna biogas, FSD/VTD, raisin making facility, LLL, Weather Stations, RIA
- Nine Technologies are transferred and 50 BARC scientists participated in establishment of facilities along with SVERI Staff, RHRDF staff and Villager Volunteers.

#### **Implementation Region**



RHRDF activity Implement Region





Visit of Hon. Padma Vibhushan Dr. Anil Kakodkar, Director BARC, to Pandharpur – RHRDF-Akruti at Tisangi. 1<sup>st</sup> Feb 2015 Other dignitary's present-Dr. V. K. Suri (Head-Precision Engg. Division, BARC), Shri. A. M. Patankar (Member, RGSTC), Prof. B. P. Ronge (Principal, SVERI)



Hon. Padma Vibhushan Dr. Anil Kakodkar visited sankalp SHG Group who were using the FSD



#### **To Develop Training Facility**

Training the trainers by BARC scientists (Padmashri. Dr. Sharad Kale)



Awareness camps in Villages



Domestic water purifier: Community level water purifier



Foldable solar dryer: Low Cost poly-foldable solar dryer



Soil testing kit: More farmers friendly



Demonstration of use of Soil Testing Kit



Natural fiber based composite



Vibro Thermal Disinfestor is provided with Grading and cleaning facility



**Shellac based Products** 

**Development of Lac Bangle machine** 

#### For More Details visit YouTube Link: https://youtu.be/Wkz1jrd46lQ

#### Or Scan QR Code



#### **Deploy Technology from Laboratories to the Field**

#### Laboratory to Filed Connectivity

For more details Visit to YouTube link: <u>https://youtu.be/zsBg7U\_QbZk</u>



#### Or Scan QR Code

- Nisargaruna: 1 Tone Plant and Usage of Nisargaruna for improving Soil organic carbon and Encouragement for Small Biogas
- Soil Organic Carbon Testing Kit: 320 kits distributed and around 700 samples are tested at Lab. One Entrepreneur, Advanced Soil test lab developed
- Water Filter: 600 Water filters distributed through entrepreneurs, 2 entrepreneurs, 30 Schools
- Seed Bank: 124 Farmers, 84 Acres in last three seasons, 4 Entrepreneurs
- **FSD:** New development and Food Products to involve Women groups
- Laser Land Leveler: Understood importance of leveled land to improve the yield.



Nisargruna Biogas



Demonstration of Soil Organic Carbon Testing Kit

#### Societal Connect Through Technology



**Installation of Water Filter** 



**Development of Seed Bank for Local farmers** 



Food Drying Facility at RHRDF



**Experts Meeting with Rural farmers** 



Laser Based land Leveler



Land Leveling Photograph

For More Details visit to You Tube Link: <u>https://youtu.be/ZIKcvmYNtpo</u>

Or Scan QR Code





#### **Awareness Programs**

Awareness Programs of Soil Testing in Rural areas



**Awareness Programs for Rural Entrepreneurs** 



Awareness Programs for Rural Entrepreneurs



Awareness about the use of filtered water in rural areas



#### Activities under RHRDF

Seed Bank: Distributed for Loacal Farmers





Food Products to involve Women groups



**Demonstration of various activities to Villagers** 

#### Mahila Bachat Gat Training Programs



Training Activity for Mahila Bachat Gat

#### **Development of Training Course Material**

- To disseminate the knowledge of technology in rural areas, a training manual book of each technology has been prepared in the local language.
- This manual book is made by using the experience while deploying and demonstrating the technology

#### BARC Technologies Training Course Material translated in Marathi





#### **Deployment of AKRUTI Programs**

6 Akurti Centers are established and about 10 more Akruti Centers are planned and activities are started.



Systematic approach is developed to involve villagers and cooperative sharing of technical knowledge

## Exhibition of Technology developed By BARC and SVERI

SVERI- RHRDF Ashadhi Wari Exhibition of Technology Developed

Visit to following You tube link :

https://youtu.be/ax76LfgeiY8

or Scan QR code



## Exhibition of Technology developed By BARC and SVERI Wari Exhibition organized by

#### BAIF Development Research Foundation & SVERI's College of Engineering Supported by Rajiv Gandhi Science & Technology Commission



Mobile Exhibition of RHRDF Activities at various places



Exhibitions stall at Gopalpur on 3 – 4 July 2017.



Warkari Visited an Exhibition stall at Gopalpur on 3 – 4 July 2017.

## **RHRDF** Activities

Dr. P. M. Pawar Sir delivering talk on facilities of RHRDF in Agro Viskas 2018 organized by Ministry of Agriculture and farmer welfare Govt. of India. For More details visit this link or Scan QR Code. <u>https://youtu.be/NIPmql4KccY</u>



#### **Technology Transfer Document**

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GOVER'	NMENT OF INDIA		
BHABHA ATO TECHNOLOGY TRANSFI	MIC RESEARCH CENTRE ER & COLLABORATION DIVISION		
Technology Transfer of following thr	ce technologies:		
1. Nanocomposite Ultrafiltration Membrane Device For Domestic Drinking Water			
2. Dip N Drink Membrane Pouch			
	nestic Brackish Water RO System		
up Rural Human and Resources Devv Gopalpur, Pandharpur, Technology d are being handed over to Shri Vith Ramjani Road, Pandharpur, Dist S- exclusive perpetual license to utilize documents have been prepared as	I signed between BARC and SVERI for setting lopment Facility (RHRDF) at SVERI Campus peloyment documents of above 3 technologies al Education & Research Institute, Gopalpar- olapur, Mahamsistra Pin-41304 with a non the know how provided in the document. The guideline document for above technologies, of the technologies will be arranged for SVERI		
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#### **RHRDF** Activities

Sr. No	Name of Activity	You Tube Link	For More Details Scan QR Code
01	BARC Domestic Water Filter	https://youtu.be/qmmZwPyqO0Y	
02	Soil Organic detecting testing kit	https://youtu.be/oTTLyh0yUmM	
03	SVERI- RHRDF Aashadi Wari 2016 Part 1	https://youtu.be/DPnrY63VC0w	
04	SVERI- RHRDF Aashadi Wari 2016 Part 2	https://youtu.be/lA4ixvTmQKE	
05	Foldable Solar Dryer	https://youtu.be/4xwPd3RfKn4	

Sr. No	Name of Activity	You Tube Link	For More Details Scan QR Code
06	Flat Bed Foldable Solar Dryer	https://youtu.be/l4cy90IG4eA	
07	How to install Water Filter	https://youtu.be/2Oemdbn3S_g	
08	Stainless Steel Water Filter	https://youtu.be/QzS5Qg5Z9BE	
09	Cillage Introduction Video	https://youtu.be/khODQJ7xv3Q	
10	RESEARCH ARTICLES A concept of knowledge and technology enabled empowerment of rural Indian villages	<u>http://www.barc.gov.in/akruti-</u> <u>tp/akruti_article1.pdf</u>	

### ICT Enabled School Education

Dr. B. P. Ronge Presenting SVERI-ICT Project at IISc Bangalore

Visit on You Tube Link of Scan QR code https://youtu.be/3A7qjLSWHEY



### **ICT Enabled School Education**



### NKN connectivity to RURAL Schools

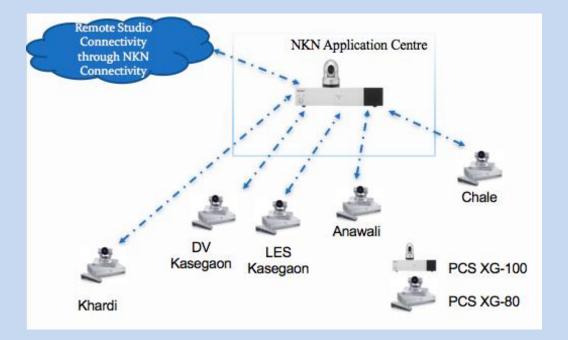
Demonstration of NKN connectivity extension to Schools for e-learning experience.

### For More Information to watch video visit on:

https://youtu.be/86RzaSMoORI

Or Scan QR Code





### **Connectivity to Five Schools**



**Training for Usage of NKN through Tablets** 



**Training for Student and staff Usage of Tablets** 



**School Students with Tablets** 



**Training for Usage of NKN through Tablets** 

### For More Details Scan QR Code



### **NKN Activities**



**Online Interaction of Hon. Padma Vibhushan Dr. R. Chidambaram with Students** 

For more Details visit You Tube Link: <u>https://youtu.be/a6wPlHJC\_x0</u>

Or Scan QR code



### **Impact of NKN-Enabled Schools**

- Improvement in thinking and confidence level of participated students.
- Different ways of learning which are more linked with day-to-day societal problems.
- Students Self-Learning Approach: developed their local community for sharing audio and video
- Changes in School Teachers: Teaching approach is improved through open source online contents
- Pictures Animations and Videos for easy learning
- Sharing Good teachers for some of the topics through videoconferencing for students of other schools.

### NKN-Enabled CILLAGE Centre

- High Performance Computational (HPC) facility GRID-GARUDA, E-Foundry developed by IIT Bombay, Collab CAD etc.
- Live Transmission Wari exhibitions
- Information support and data keep for Projects
- Weather based individual crop advisory system
- Network Monitoring System Software which records various network parameters viz. packet losses, minimum latency, maximum latency and average latency on continuous basis
- Video-Conferencing facilities to organize talks for farmers from the remote experts.
- Lab-to-Field Activity

## **Gram Visit**

For More Details Visit to : https://youtu.be/80JdiSPZ9i0

Or Scan this QR Code



### **Gram Visit**

Under The Extension activity, students visit villages to implement village related projects like water supply system design, sewerage system design, water conservation projects, etc.



Students at Ambe Village Grampanchayat



Dr. P. M. Pawar Sir addressing to villagers during Gram Visit at Ambe



**Students doing Drainage line Survey at Ambe** 



**Creating awareness among villagers through SVERI- and ZP Student Rally** 



Addressing Sarapanch to Villagers at Marapur



**Students Doing Survey** 



Drainage Road Survey

### Unnat Maharashtra and

### **Unnat Bharat Abhiyan (UMA and UBA)**

### Unnat Maharashtra and Unnat Bharat Abhiyan

### (UMA and UBA)

Sanctioned Order by Govt. of Maharashtra

Scan for Download the Order





Workshop Training by Prof. B. D. Gaikwad

Sr. no	Name of Department	Activity
1	Civil Department	1. Rural Water Supply
		2. Jalyukt Shiwar
2	Computer Department	1. Translating Video's audio english to marathi
		2. Attach Raspberry Pi to Scrap Machine and Provide Internet Access
3	Electronics & Telecommunications	1. IOT based Weather Forecast
4	Mechanical Department	1. Training on New Fabrication Techniques forAgricultural Equipment Developments
		2. Development of Natural Sisal Fiber Composite
		1. How to make a Mini Pencil Emergency light
5	First Year	2. Bending of light
		3. How to make a Electric Boat

### Activities under UMA and UBA



Third Party Assessment of Ankoli Rural Water Supply Scheme Dist. Solapur

Expert team from UMA



Tested Raspberry PI kit in Shri Sitaram Maharaj Vidyalaya Khardi, Pandharpur in front of students



During discussion with concerned authorities from Z. P. (Deputy Engineer and Jr. Engineer)



TIG – MIG Welding Demo



**Class room Training demonstration** 

### Water Conservation Activities

Institute organizes the activity of Creating awareness about water conservation wherby students of civil engineering department visit one of villages in region and carry out survey.



Water Conservation activities at Anavali

#### **Holistic Management of Temple catering to floating Population**

Institute organizes the activity of Holistic Management of Temple. During this activity, students and staff work under the guidance of experts for managing the facilities at temple.



Hon. Principal Dr. B. P. Ronge Sir Distributed RO Water to Warakari



SVERI Students Distributing RO water to warakari

# Technical Consultancy Support

#### **Technical Consultancy Support**

Institute does structural audit of building of zilla Parishad School as per the requirement and helps the government in ensuring the safety of students and teachers. Institute does third party audits of various projects of nagar parishad.

Institute also helps gram panchayats of different villages in establishing the wastewater treatment plant by providing a detailed project report (DPR). Institute provides a material testing facility for testing material under zilla parishad (ZP), Public works department (PWD) and Maharashtra Jivan Pradhikaran (MJP) projects.



Structural Audit of Zilha Parishad primary School



Finding Compressive Strength by Rebound Hammer through Non Destructive Testing



Finding quality of Concrete by ultrasonic pulse velocity meter



Finding Compressive Strength by Rebound Hammer through Non Destructive Testing



Structural Audit of Zilha Parishad primary School



Finding quality of Concrete by ultrasonic pulse velocity meter

### **Technical Education Exposure Sessions**

Dr. P. M. Pawar Sir Encourages to Rural Student about Technical education

Visit on You Tube Link: https://youtu.be/dbUibmsTomI

Or Scan QR code



### **Technical Education Exposure Sessions:**

In order to make the students aware about different aspects of Science and Technology, Technical Education Exposure Sessions are arranged at various junior colleges. Through such sessions, students are informed about different career opportunities for them after 12<sup>th</sup> Science. Usually the students passing 12<sup>th</sup> Science don't have proper direction towards further education and career. Taking into consideration this gap, the institute organizes such informative sessions. For such Technical Education Exposure Sessions, expert faculty members from different departments visit various junior colleges in the vicinity and make the students aware about different career opportunities, further admission process, required documents, and different scholarship related schemes of Government etc.



Dean Academics Dr. P. M. Pawar is Guiding Students for Technical Education Exposure Session



Students from various colleges attending Technical Education Exposure Session

#### Kimaya Abhiyantriki Tantradnyanachi:

This activity which is held at the institute is '*Kimaya Abhiyantriki Tantradnyanachi*' (Wonders of Engineering Technology). Under this activity, exhibitions of technical projects are arranged at each department and the students from various junior colleges are brought to visit the campus. Through such activity, students get to know about different branches of engineering as well as get exposure to science and technology.



Students taking information about the technology.



Photographs along with student visits.

#### **Science Orientation Programme:**

This activity is arranged for the Principals and faculty members of different junior colleges. Under this programme, the Principles of various junior colleges and the faculty members are brought together to have a detailed guidance about the recent trends in science and technology as well as certain contemporary societal issues are discussed to have some brainstorming and further plan of action. This programme helps to percolate the recent scientific and technical knowledge among the students.



Felicitation of Dr. N. B. Pawar (Principal Shree Sant Damaji Mahavidyalay Mangalwedha )



#### **Experts Guidance Session**

### **Agro Challenge**

### **Agro Challenge**



Dr. D. Datta (BARC), Dr. B. P. Ronge, Mr. D. S. Salvithhal, Mr. B. D. Ronge, Prof. N. D. Misal, Prof. A. D. Ingle, Mr. Ankush Padavle & others



Manually operated Onion Transplant Machine



Manually operated spray pump & seed planter



Solar Operated Spray Pump



Advance sugar cane earthing up machine with cheeper and cultivator



Judge Panel visit to Degree level project exhibition



Judge Panel visit to Diploma level project



Judge Panel visit to School level project



### **Prize Distribution**



**Prize Distribution to School level Project** 



**Prize Distribution to Degree Level Project** 

### **Techno Societal**

### **Techno Societal**

The Techno-Societal (International Conference on Advanced Technologies for Societal Applications) organized on every two Years on 14-15 December. This conference has offered a multidisciplinary platform for researchers from broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels. The key motivation for developing these technologies is to bring change in the society. These technologies are for betterment of differently able people, Environment friendly applications, Livelihood, Rural Employment, Agricultural, Healthcare, Energy, Transport, Sanitation, water, Education, etc. Technology development as holistic approach by considering various issues such as simplified process, employment generation, environmental friendly applications, deployment process, propagation approach and business models for sustenance



**Inauguration of Techno Societal Logo** 



Hon. Padma Vibhushan Dr. Anil Kakodkar Sir Guided for conference



**Participants of Techno Societal** 



**TECHNOSOCIETAL-2018** 



Hon. Dr. Balasubramanyam delivering talk in Techno Societal

Prashant M. Pawar · Babruvahan P. Ronge

Societal 2018

Proceedings of the 2nd International

Conference on Advanced Technologies for Societal Applications - Volume 2

R. Balasubramaniam - Anup S. Vibhute

Sulabha S. Apte Editors

Techno-

### **Proceedings of the Techno Societal**

Prashant M. Pawar - Babruvahan P. Ronge R. Balasubramaniam - Anup S. Vibhute Sulabha S. Apte *Editors* 

### Techno-Societal 2018

Proceedings of the 2nd International Conference on Advanced Technologies for Societal Applications - Volume 1

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Prashant M. Pawar Babruvahan P. Ronge R. Balasubramaniam Sridevi Seshabhattar *Editors* 

### Techno-Societal 2016

Proceedings of the International Conference on Advanced Technologies for Societal Applications

Springer

Prashant M. Pawar -R. Balasubramaniam -Babruvahan P. Ronge -Santosh B. Salunkhe - Anup S. Vibhute -Bhuwaneshwari Melinamath *Editors* 

### Techno-Societal 2020

Proceedings of the 3rd International Conference on Advanced Technologies for Societal Applications—Volume 1

Prashant M. Pawar -R. Balasubramaniam -Babruvahan P. Ronge -Santosh B. Salunkhe - Anup S. Vibhute -Bhuwaneshwari Melinamath *Editors* 

### Techno-Societal 2020

Proceedings of the 3rd International Conference on Advanced Technologies for Societal Applications—Volume 2

Springer



### Shri Vithal Education & Research Institute's **COLLEGE OF ENGINEERING, PANDHARPUR**



The nearest Airport is Pune.

Pandharpur is connected by a Broad-Gauge Railway line to Mumbai-Hyderabad-Bengaluru main line at Kurduwadi Junction. Pandharpur Station is on Central Railway route, Miraj-Latur.

Pandharpur is just 72 km. away from its district place Solapur, which is junction of NH-65 & NH-169 and is around 200 km by road from Pune towards Southeast. State Transport Buses are available from Swargate & Shivajinagar Bus stations of Pune.

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