

उन्नत भारत अभियान
आत्मनिर्भर भारत हेतु उच्च शिक्षा एवं गांवों में उन्नयन



Unnat Bharat Abhiyan Transforming Higher Education and Villages for Atmanirbhar Bharat

A flagship program of the Ministry of Education, Government of India
Indian Institute of Technology Delhi, National Coordinating Institute

**Striving to connect over 50,000 Higher Education Institutes
with around 2.5 lakh Gram Panchayats by 2032**





सत्यमेव जयते
Ministry of Education
Government of India



उन्नत भारत अभियान
UNNAT BHARAT ABHIYAN



IIT DELHI

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Select Interventions by Participating Institutes in Villages

September 2022

*This book is released by Shri Dharmendra Pradhan,
Hon'ble Education Minister*

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Unnat Bharat Abhiyan

A Flagship Program of the Ministry of Education

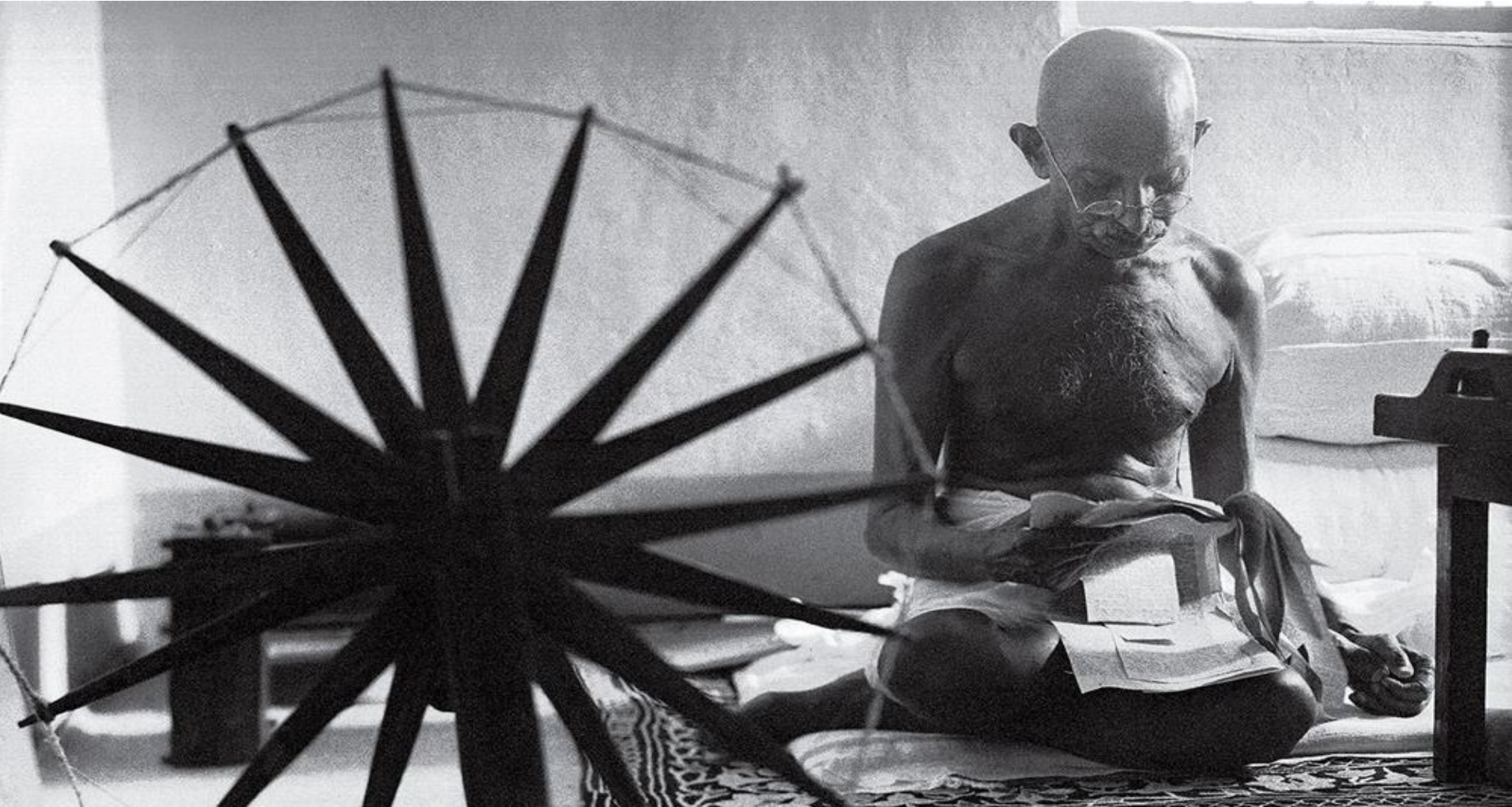
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“If we want to impart education best suited to the needs of the villagers, we should take the vidyapith to the villages.”

Mahatma Gandhi

Courtesy: <https://www.mkgandhi.org>

UNNAT BHARAT ABHIYAN is a flagship program of the Ministry of Education (MoE), Government of India (GoI) with IIT Delhi designated as the National Coordinating Institute. It aims to create a vibrant relationship between society and higher education institutes through enabling faculty and students to work with the people of rural India in identifying development challenges, innovating and evolving appropriate solutions, and implementing effective interventions for accelerating sustainable growth and transformation of villages.

The program was formally launched on 11 November 2014 by the Hon'ble President of India, Shri Pranab Mukherjee. As of today, there are over 3,200 higher education institutes under Unnat Bharat Abhiyan having a footprint in 548 districts, 28 states and 8 union territories, and working with over 16,000 villages. The focus areas include sustainable agricultural systems, water resource management, rural energy systems, basic amenities (rural infrastructure, sanitation, affordable healthcare, school education, digital empowerment, connectivity, etc), and artisans, industries and livelihoods.

ACKNOWLEDGEMENTS

I express my deepest gratitude to the Ministry of Education for entrusting IIT Delhi with the coordination of Unnat Bharat Abhiyan. I also thank UGC and AICTE for supporting the goals of Unnat Bharat Abhiyan through their inclusion in the academic programs. I am grateful to the Director, IIT Delhi, faculty of the Institute, especially CRDT, for their valuable contribution in making Unnat Bharat Abhiyan a successful program of IIT Delhi.

I thank all the members of the National Executive Committee, Subject Expert Groups, Regional Coordinating Institutes, Participating Institutions, District Administrations, Panchayati Raj Institutions, Voluntary Organizations, Faculty and Student volunteers for their relentless efforts and contributions in achieving the goals of this program. I also express gratitude to our collaborators for their unstinted support to our initiatives.

A special thanks to the Co-Coordiators and Co-PIs of the Unnat Bharat Abhiyan for their invaluable guidance and supervision of the program, and to the UBA team of NCI-IIT Delhi for carrying their responsibilities diligently.

Lastly, I thank all the people who have contributed to this book.

National Coordinator, Unnat Bharat Abhiyan

Virendra Kumar Vijay



प्रधान मंत्री
Prime Minister

MESSAGE

The completion of eight years of the Unnat Bharat Abhiyan is a momentous occasion. Greetings and best wishes to everyone associated with the programme and to the Ministry of Education, IIT Delhi and other institutions, as well as various stakeholders.

Education and knowledge are pillars which support the nation's progress. We are striving tirelessly to make India a knowledge hub and to empower higher educational institutions to play a larger role in nation-building.

When it comes to development of our rural areas, we believe in 'आत्मा गाँव की, सुविधा शहर की' – facilities that empower aspirations and boost ease of living are reaching villages and serving the people.

Unnat Bharat Abhiyan is an initiative that is playing the role of an enabler in transforming the rural landscape. The Abhiyan is pivotal in leveraging the intent and energy of our talented minds to devise solutions to accelerate sustainable and holistic growth of rural India.

The role of IIT Delhi as the national coordinating institute under the scheme deserves appreciation.

The Amrit Kaal of the next 25 years is an opportunity to march ahead with a new resolve to realise the vision of a developed India, in which education and rural development play key roles.

May the booklet being published on the occasion capture the essence of the scheme and inspire a larger number of higher educational institutions to work for the holistic development of rural and remote areas.

(Narendra Modi)

New Delhi
भाद्रपद 10, शक संवत् 1944
01st September, 2022

Prof. Virendra K. Vijay
National Coordinator
Unnat Bharat Abhiyan

डॉ. सुभाष सरकार
Dr. SUBHAS SARKAR



राज्य मंत्री
शिक्षा मंत्रालय
भारत सरकार
MINISTER OF STATE
FOR EDUCATION
GOVERNMENT OF INDIA

MESSAGE

Unnat Bharat Abhiyan(UBA) has developed as a source of influence by being associated with students of Technical and Non-Tech colleges.

The Mission is to enable higher educational institutions to work with the people of rural India in identifying development challenges and evolving appropriate solutions for accelerating sustainable growth.

Higher education significantly contributes toward sustainable livelihoods and the economic development of the nation.

The initiative teaches you to practice their knowledge on the ground and to give back to society what they have earned in the course of their education, this is what the sole of Holistic Education is.

The aim is for the holistic development of skill sets and competencies required for a sustainable world. 'Knowledge Economy' and 'Sustainability' are the basic premises of the overall well-being of the nation.

It also aims to create a connection between society and an inclusive academic system by providing knowledge and practices for emerging professions and upgrading the capabilities of both the public and the private sectors in responding to the development needs of rural India.

UBA inculcates the feeling inside a student to use knowledge and generate livelihood or contribute to making villages aatmanirbhar. Unnat Bharat Abhiyan Changemaker and Road Ahead Booklet is a good way to reach people and create awareness and enthusiasm among others.

My best wishes to the National Coordinating Institute IIT, Delhi for taking this initiative and give them warm wishes for the future.

(Dr. Subhas Sarkar)



Dr. Vijay Bhatkar, Padma Bhushan

**Chairman, National Steering Committee, Unnat Bharat Abhiyan
Chancellor, Nalanda University**

A village is like a laboratory where multiple fundamental research problems can be identified. The appropriate solutions to these problems could be found through knowledge-based skills which exist in educational institutions. Hence, the students must know how the villages function and only then they will be able to come up with ideas to improve them. In this direction, the Ministry of Education supports several rural development courses and internship programs for execution under Unnat Bharat Abhiyan. I am not surprised that students are enthusiastically and passionately choosing these courses and internships with an objective to work at the grassroots level. This exposure has allowed the students to understand the ground-level challenges and bring in innovative technological solutions that have solved numerous problems of villagers.

Let this passion and enthusiasm be the binary code for this aspirational program to create an academic foundation for social, cultural, scientific, economic and technological development of our Nation. I wish everyone associated with Unnat Bharat Abhiyan success and enduring progress.



Prof. Rangan Banerjee

Director, Indian Institute of Technology Delhi

Vice-Chairman, National Steering Committee, Unnat Bharat Abhiyan

The soul of India lives in its villages. IIT Delhi coordinates Unnat Bharat Abhiyan, a unique scheme to ensure that the academia and research community contribute to solving the problems and improving the quality of life in our villages. Unnat Bharat Abhiyan provides a unique opportunity for students across the country to work in villages with the Gram Panchayats through rural immersion and internship programs, and provide technological solutions relevant to their needs and problems.

Prof. Virendra Kumar Vijay and the team of faculty, researchers and students of the Centre for Rural Development and Technology have been spearheading this initiative at the national level. We look forward to this nationwide initiative providing opportunities for our academicians and researchers to contribute meaningfully to the development of our villages.



Prof. Virendra Kumar Vijay

**Professor, Centre of Rural Development and Technology, IIT Delhi
National Coordinator, Unnat Bharat Abhiyan**

Unnat Bharat Abhiyan was conceptualized by the faculty of Indian Institute of Technology Delhi with a vision of reorienting the academic curricula and research and development in higher education institutions by connecting students and faculty to villages and society.

The widening rural-urban divide demands the sustainable development of the villages and the creation of appropriate employment opportunities in rural areas. So far, our higher education institutions have primarily been oriented to cater to the needs of the mainstream industrial sector. Barring a few exceptions, they have made limited contributions to the development of the rural sector.

Hence, it becomes important that the knowledge base and resources of all the higher education institutions of the country are leveraged to bring a transformation in rural India. Unnat Bharat Abhiyan is a much-needed initiative in this direction. The program enables the higher education institutions to work closely with the villages. I firmly believe that Unnat Bharat Abhiyan will continue to grow. A large number of higher education institutions will join hands with us in building Atmanirbhar Bharat.

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BACKGROUND

As argued by Mahatma Gandhi in his seminal work 'Hind Swaraj', the western developmental paradigm, based on centralized technologies and urbanization, has given rise to serious problems such as inequality, environmental degradation, natural calamities etc. To ameliorate these problems, it is necessary to promote development of rural areas in tune with Gandhian vision of self-sufficient 'village republics', based on local resources and using decentralized, eco-friendly technologies so that the basic needs of food, clothing, shelter, sanitation, health care, energy, livelihood, transportation, and education are locally met.

The concept of Unnat Bharat Abhiyan was visualised during a 3-day workshop organised at Indian Institute of Technology (IIT) Delhi in September 2014 through the efforts of (late) Prof. Rajendra Prasad and some senior faculty members from the Department of Mechanical Engineering and Centre for Rural Development and Technology (CRDT), IIT Delhi. Dr. R. Chidambaram, the then Principal Scientific Advisor, GoI; Ministers of Rural Development, Education (previously MHRD), and Agriculture departments; various researchers, technologists and grass-root organisations attended this workshop. It was during this workshop that IIT Delhi proposed how academic institutions of the country can contribute to the development of nation's 6,49,481 villages. It was proposed that each academic institution should adopt a cluster of 5 villages and work for their development in collaboration with the district administration.

The MoE, GoI launched Unnat Bharat Abhiyan on 11 November 2014 with an intention to transform rural India. The program was launched by the President of India, Shri Pranab Mukherjee. IIT Delhi was given the responsibility to coordinate this program nationally. CRDT, IIT Delhi is currently carrying out this program all over the country on behalf of the MoE.

For the initial phase of Unnat Bharat Abhiyan, 143 Memorandums of Understanding were signed between National Coordinating Institute (NCI) and Participating Institutes in phase 1. For smooth execution of Unnat Bharat Abhiyan, the Secretary, MoE issued letters to all District Collectors to provide required support to the academic institutions wanting to

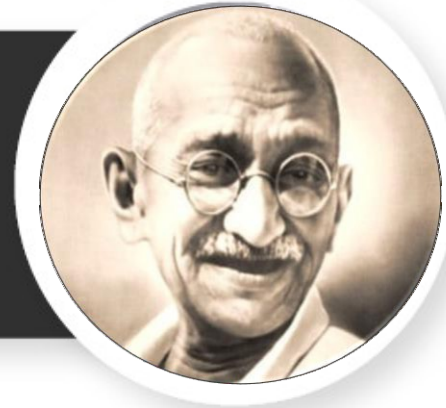
“adopt” villages. Under Unnat Bharat Abhiyan 2.0, the institutions are being selected in a challenge mode and the scheme has been extended to over 3,200 reputed Higher Education Institutes (both public and private) of the country.

The Participating Institutes work in close association with Subject Expert Groups (SEGs) and Regional Coordinating Institutes (RCIs). The institutes are expected to closely coordinate with the district administration, elected public representatives of panchayats/villages and other stakeholders and become a part of the process of development planning and implementation. In this process, faculty and students at such institutes are re-oriented and connected to the rural realities so that their learning and research work also become more relevant to society.

Unnat Bharat Abhiyan focuses on key thematic areas integral to achieving holistic rural development, and sustainable development goals. Unnat Bharat Abhiyan has established synergistic collaborations with various Government organizations, Panchayati Raj Institutions (PRIs), voluntary organizations, professional institutions, and implementation agencies for meaningful integration of the resources, capacity building, and coordinated action to facilitate transformation of the rural development process.

OUR VISION

Unnat Bharat Abhiyan is inspired by the vision of transformational change in rural development processes by leveraging knowledge institutions to help build the architecture of an Inclusive India and to have a paradigm shift in academic and research programs of the country.



OUR MISSION



Develop the necessary mechanism and proper coordination among educational institutions, implementation agencies (District administration / Panchayati Raj Institutions) and the grassroots level stakeholders to enable effective intervention at the field level.



Select suitable rural clusters and effectively participate in the holistic development of these clusters using eco-friendly sustainable technologies and local resources creating sufficient employment opportunities in the process, harnessing multifarious government schemes, customised use of existing technologies and use of knowledge as per the local needs.



Reorienting the academic curricula and research programs in higher educational institutions to make them more responsive to the needs of the time and to bring in holistic development and enrich knowledge of students about issues of villages/ society.

OBJECTIVES OF UNNAT BHARAT ABHIYAN 2.0



To engage the faculty and students of Higher Educational Institutions in understanding rural realities.



To identify & select existing innovative technologies, enable customisation of technologies, or devise implementation methods for innovative solutions, as per the local needs.



To leverage the knowledge base of the educational institutions for effective implementation of various government programmes.

STRATEGY OF UNNAT BHARAT ABHIYAN 2.0



Capacity enhancement of Higher Education Institutions in research and training activities relevant to national needs, especially those of rural India.

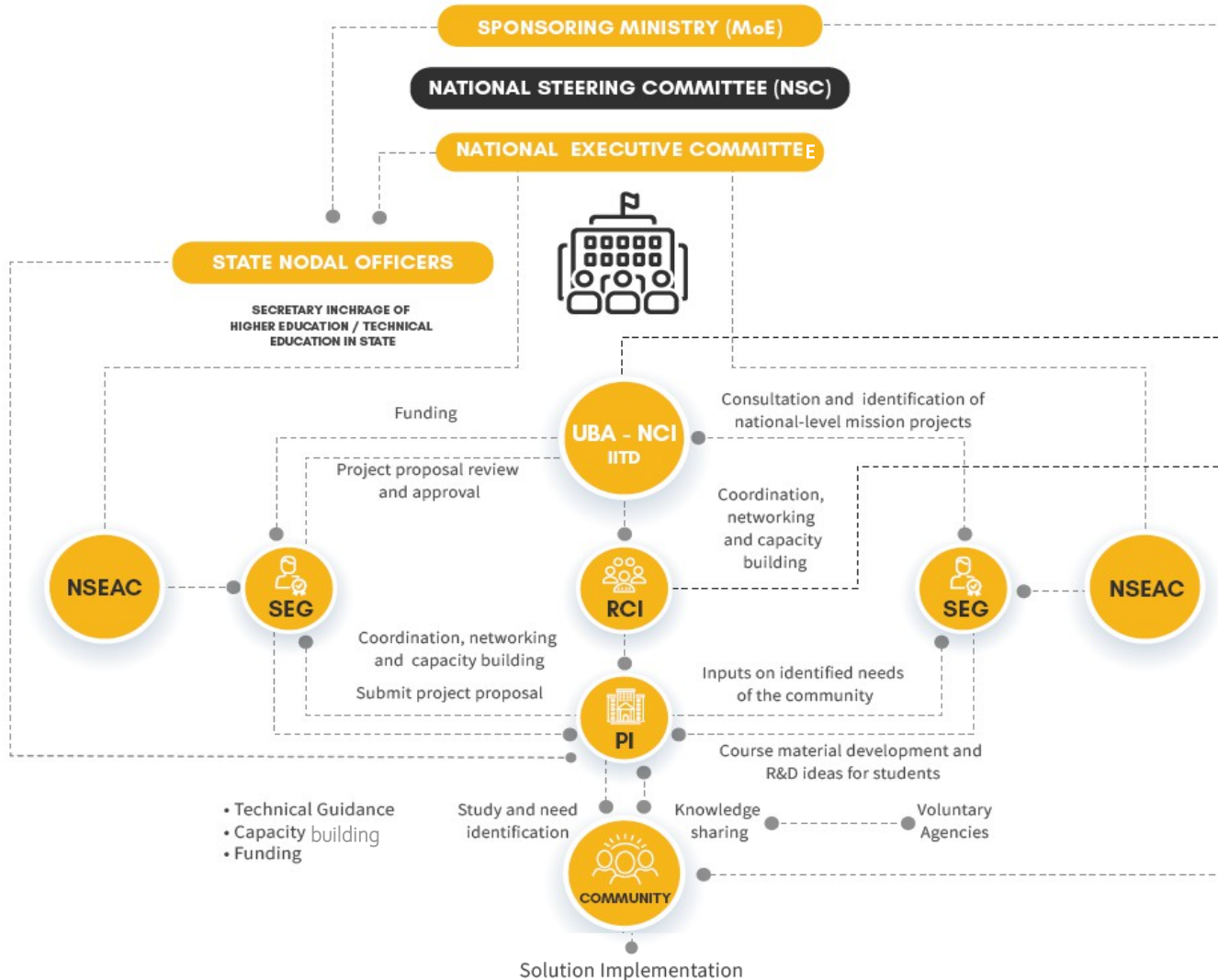


Village Adhyan (गाँव का अध्ययन)
Situation Analysis, Need Assessment of the adopted village with objective to study, assess and identify area of intervention / initiatives on different subjects broadly categorized

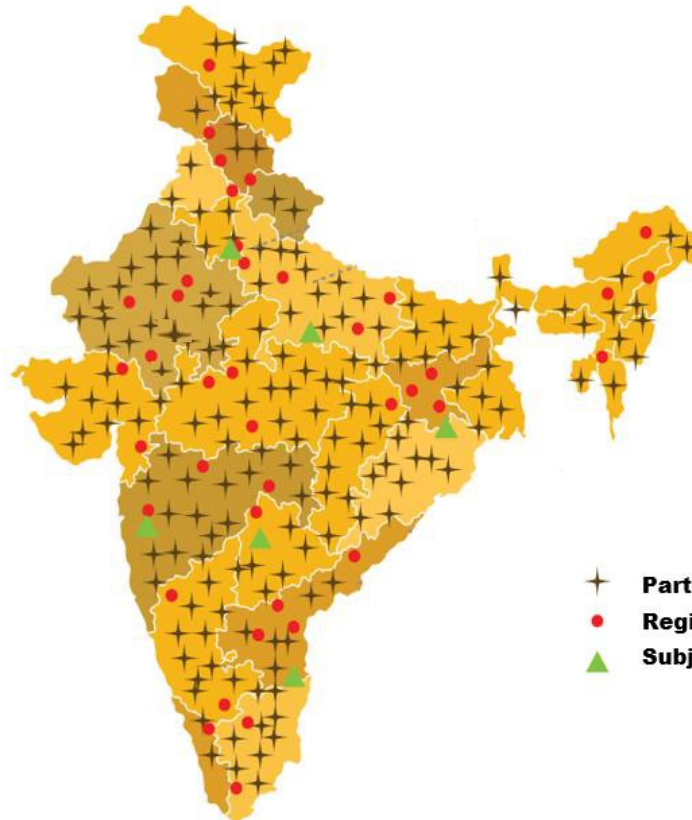


To create a virtuous cycle benefitting the society, government, and higher education system.

ORGANIZATIONAL STRUCTURE



UNNAT BHARAT ABHIYAN FOOTPRINTS TILL 2022



Subject Expert Groups (SEGs)

- Capacity Building ,Strategy for Convergence and Implementation of Various Government Schemes
- Curriculum Reforms and Educational Institutions Social Responsibility
- Environment and Sustainable Resource Management
- Ethos in Technical Institutions
- Liquid Waste Management
- Others and COVID-19
- Participation in School Education
- Rural Craft and Artisans Development & Rural Industrialization and Entrepreneurship Development
- Rural Energy Systems
- Rural Infrastructure
- Rural Livelihood and Entrepreneurship Development
- Sanitation & Solid Waste Management
- Sustainable Agriculture System
- Water Resource Management

- ✦ **Participating Institutes- 3229**
- **Regional Coordinating Institutes- 45**
- ▲ **Subject Expert Groups- 14**

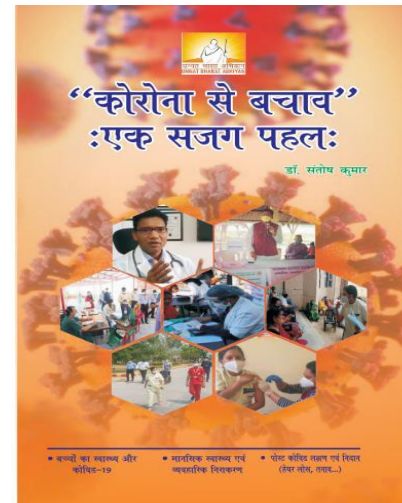
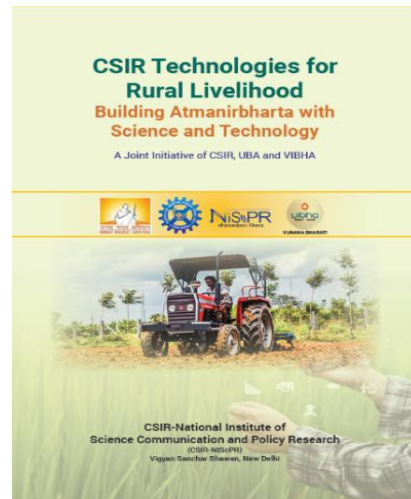
- UGC has started a two-credit course on 'Community Engagement and Social Responsibility' for undergraduate and postgraduate students.
- AICTE has started a 100-hour 'Rural Internship' for all B.Tech. students

MEMORANDUMS OF UNDERSTANDING

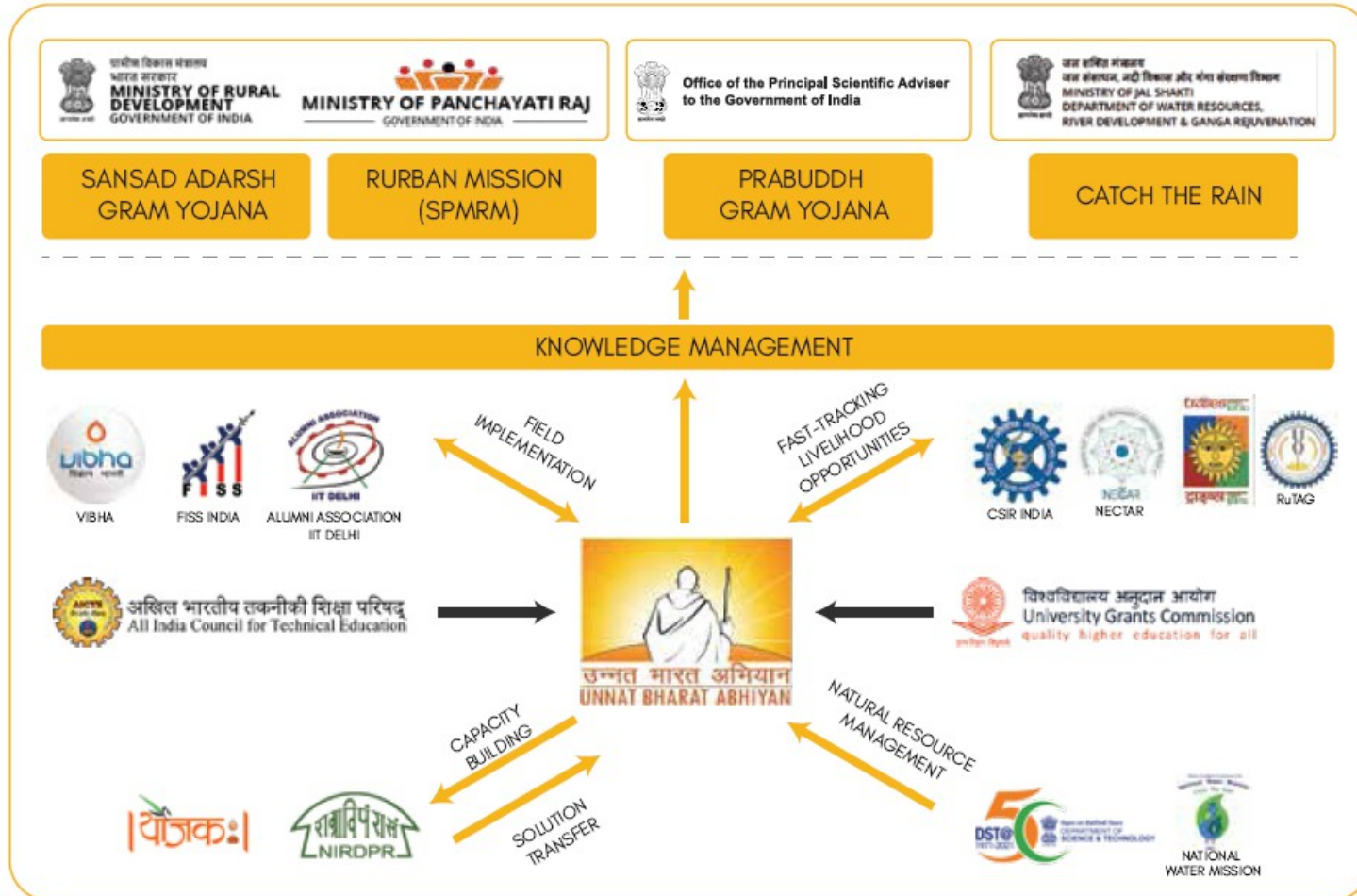
Memorandums of Understanding (MoU) have been signed with:

- MoE on annual basis
- 143 Participating Institutes under Unnat Bharat Abhiyan 1.0
- 40 Regional Coordinating Institutes on 06 March 2019
- MoE, Ministry of Rural Development and Ministry of Panchayati Raj on 12 January 2017
- Tribal Cooperative Marketing Development Federation of India Limited (TRIFED) and Vijnana Bharati (VIBHA) on 25 July 2020
- Council of Scientific and Industrial Research (CSIR) and VIBHA on 28 July 2020
- North East Centre for Technology Application and Reach (NECTAR) and VIBHA on 3 March 2021
- NECTAR, Foundation for Integrated Support and Solution (FISS) and VIBHA on 23 May 2022
- IIT Delhi Alumni Association on 25 February 2022

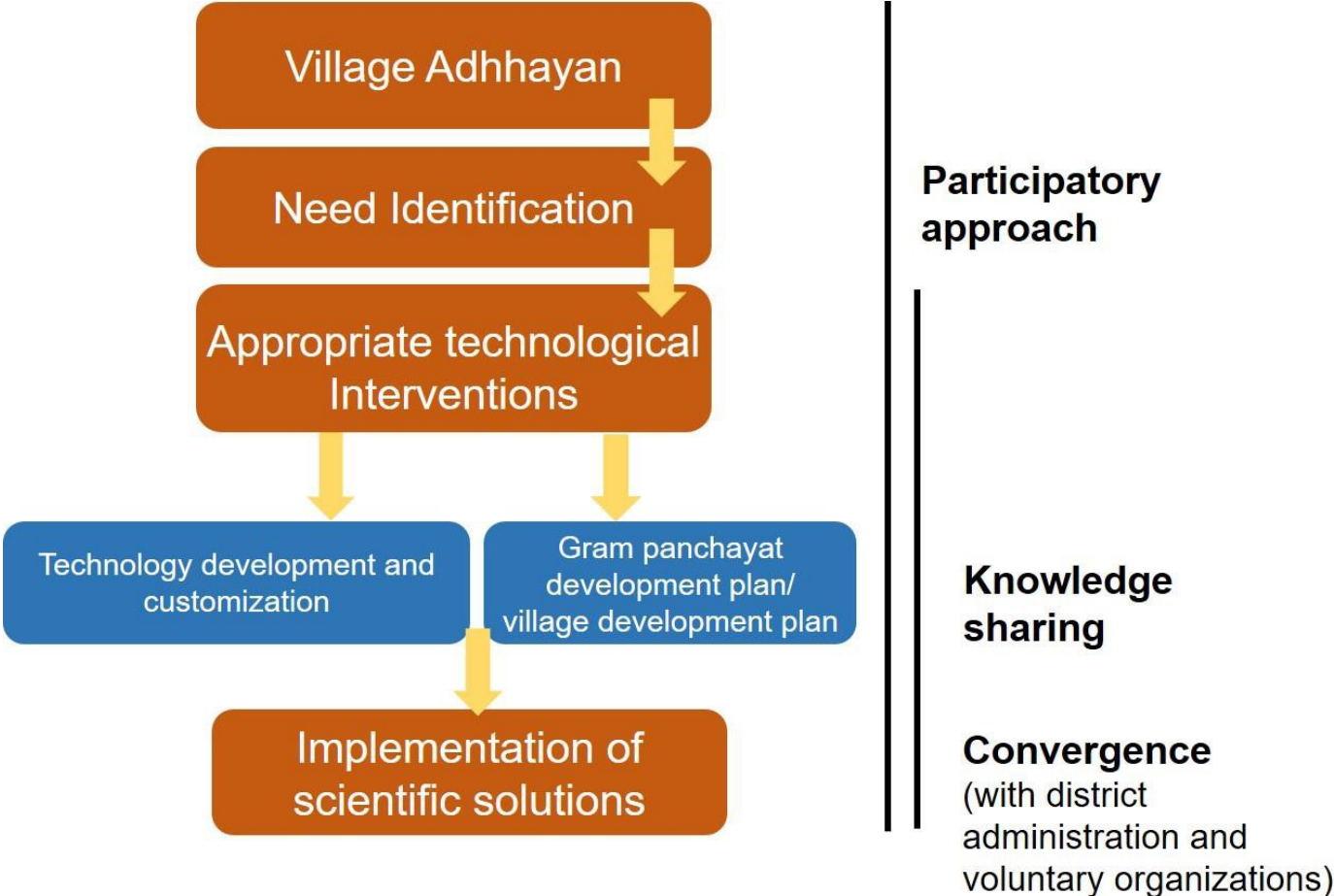
PUBLICATIONS



COLLABORATIONS



RURAL IMMERSION PROCESS FOR STUDENTS



TECH4SEVA

Technology Outreach as an Enabler for Inclusive & Sustainable Development.



TECH4SEVA 2019

TECH4SEVA 2021



A tremendous progress in the field of science and technology has occurred in the last decade which has brought prosperity to millions in the country. However, there still exists a gap between rural and urban populations as the benefits of science and technology are yet to reach a large section of the population despite efforts by implementation agencies and voluntary organizations. In today's rapidly growing knowledge economy, technological interventions, innovation, rural entrepreneurship culture, grass-root skill development and skill enhancement along with mobilization of financial resources are urgently required to create employment opportunities, enhance incomes, reduce migration and drudgery, and improve quality of life.

Tech4Seva: “Tech” means ‘technology’ which can be applied to real-world purposes and “Seva” means ‘selfless service’ for the betterment of society. Tech4Seva aims at creating an enabling ecosystem for innovation, customization, and outreach of scientific and sustainable technological solutions to address the issues identified at the grassroot level. The concept was designed and is nurtured through the efforts of Unnat Bharat Abhiyan mingled with the swadeshi spirit of Vijnana Bharati.

Two Tech4Seva events have been organized by Unnat Bharat Abhiyan, IIT Delhi in 2019 and 2021, respectively, with an objective to bring all relevant stakeholders on a common platform to facilitate knowledge-sharing and cross-learning among them and devise mechanisms of facilitating technology outreach from technology developers to the technology seekers. This year as the country celebrates its 75 years of independence, Unnat Bharat Abhiyan is marking its contribution through multiple regional Tech4Seva events – platforms for technology demonstration suited to respective geographical regions – which would culminate into a national-level mega event bringing together scientific technologies developed all across the country.

GLIMPSES FROM TECH4SEVA

2019



Dr. Ashutosh Sarma, Secretary, Department of Science and Technology, GoI inaugurating the Tech4Seva



Shri Giriraj Singh, Hon'ble Cabinet Minister, Ministry of Fisheries, Animal Husbandry and Dairying visiting exhibition of Tech4Seva

2021



Virtual experience platform designed for Tech4Seva

AREAS OF **INTERVENTION**



01

SUSTAINABLE
AGRICULTURE
SYSTEMS



02

WATER
RESOURCE
MANAGEMENT



03

RURAL ENERGY
SYSTEMS



04

ARTISANS, INDUSTRIES AND
LIVELIHOODS



05

BASIC AMENITIES

01

**SUSTAINABLE
AGRICULTURE
SYSTEMS**

Lemongrass cultivation in Gandikhata cluster, Uttarakhand



Intervention: Lemongrass Cultivation in Gandikhata cluster, Uttarakhand

Participating Institute: IIT Delhi

IIT Delhi adopted Gandikhata cluster in Haridwar district, Uttarakhand to help villagers with lemongrass and mushroom cultivation. Since this cluster covers a vast area of Rajaji National Park, the villagers face regular crop damage by wild animals. To address this issue, IIT Delhi introduced lemongrass cultivation to the farmers as an alternative. The crop has no threat from wild animals. It is known for its medicinal properties (antibacterial, antifungal, and antimicrobial) and is widely used in various cuisines and perfumes.



Intervention: Mushroom Cultivation

In Gandikhata cluster, Haridwar district, Uttarakhand farmers expressed willingness to take up agriculture-allied initiatives to increase their income. So, IIT Delhi promoted mushroom cultivation with the help of ONGC.



Smart Farming Project at Pudussery East, Pudussery West and Pudussery Central Villages

Intervention: Smart Farming Project

Participating Institute: IIT Palakkad

This project of IIT Palakkad proposes a unique combination of artificial intelligence and smart technologies such as the Internet of Things (IoT) and Cyber-Physical Systems (CPS) to improve farming practices.

The project's objective is to assist farmers in increasing the productivity of crops, reducing wastage of crops, water, energy, fertilizer, and enhancing the benefit to cost ratio by choosing correct crops. The institute is focusing on:

- (a) Early detection of plant pathogens
- (b) Count and prediction yield
- (c) Smart irrigation system that will optimize fertilizer and energy.





Intervention: Natural Farming Program

Participating Institute: IIT Kanpur

Components of this program by IIT Kanpur include soil testing, on-farm composting and organic farming trials, garbage segregation at source, training, technological interventions and distribution of new crop varieties, demonstration of drip farming and marketing interventions.



Intervention: Converting Barren Land to Cultivable Land in Kenthia Village

Participating Institute: IIT Kharagpur

IIT Kharagpur took the initiative to convert the barren land of Kenthia village into cultivable land where different rice varieties are grown in rotation with high value, soil quality restoring crops. At present, four crops are being cultivated in a year in rotation-rice, wheat, mustard, and sesame, which has increased the income of farmers by more than double.





Intervention: Hybrid Mushroom Cultivation

Participating Institute: **Brainware University, West Bengal**

Brainware University implemented 'Hybrid Mushroom Cultivation Technology' using paddy straw as substrate. Fifteen families from three adopted villages participated in the training program. The products are being sold at the local vegetable market at Rs. 250 per kg. Every family is now generating an income of Rs. 3,000 to Rs. 3,500 per month.





Intervention: Mushroom Cultivation Training to Rural Community

Participating Institute: Kongunadu Arts and Science college, Tamil Nadu

A two-month project entitled “Mushroom Cultivation Training to Rural Community” was carried out in the village Dhanalakshmi, Madukkarai Block, Coimbatore from 21 January 2021 to 15 March 2021. The training helped the rural community to start mushroom cultivation as an entrepreneurial initiative with minimum investments.



Intervention: Oyster Mushroom Cultivation

Participating Institute: **Don Bosco College of Engineering, Goa**

The institute has selected Xeldem, Bali, Assolda and Raia villages in Fatorda, Goa to address the development challenges through the adoption of appropriate technologies. A training session was organized on oyster mushroom and vegetable cultivation on 28 February 2019 in association with Agricultural Technology Management Agency (ATMA) as part of Unnat Bharat Abhiyan.





Intervention: Training Program on Mushroom Cultivation

Participating Institute: **Cotton University, Guwahati**

Cotton University, Guwahati organized a training program on mushroom cultivation for promoting alternative livelihood options at Satargaon Village, Kamrup (Metro) District, Assam, in association with NGO Prerona and Bodoland University, Kokrajhar.



Intervention: Farmers' Training to Perform Advanced Farming

Participating Institute: **HVPM College of Engineering and Technology, Amravati, Maharashtra**

The institute has developed environment controlled automated greenhouse with an embedded system for village Dabha. The project aims at training farmers for advanced farming to produce agro products such as strawberries, peas, squash, cherry and litchi which have never been cultivated before in Vidarbha region.



Intervention: Organic Farming Awareness Drive

Participating Institute: **KKHA Arts, SMGL Commerce and SPH Jain Science College, Maharashtra**



Intervention: Awareness Camp on Weed Management

Participating Institute: **CSK Himachal Pradesh Krishi Vishwavidyalaya, Himachal Pradesh**

Awareness camp was organized on September 20, 2019 on obnoxious weeds like *Parthenium*, *Lantana* and *Ageratum* at Tara village.



**Intervention: Awareness Camp
on Pesticide Use**

**Participating Institute: CSK Himachal
Pradesh Krishi Vishwavidyalaya,
Himachal Pradesh**

An awareness camp was organized on 12 March 2019 to aware the farmers of Kandkosari village about the ill effects of pesticides. Farmers also learnt about the safe use of pesticides.

02

**WATER
RESOURCE
MANAGEMENT**

Water sustains all life on planet Earth. The depleting water resources and their contamination is posing a threat to not just the aquatic life, but to organisms all across the food web including humans. Rural populace in India is struggling to meet its need of clean water for drinking (and irrigation purposes), putting the achievement of three out of 17 SDGs at a remarkable risk. Further, efforts channelized towards rainwater harvesting, ground-water management, and prevention of soil erosion are recognized as the need of the hour. Water resource management is the Initiative of planning, developing, distributing and managing the optimum use of water resources. Unnat Bharat Abhiyan is committed to working towards water resource management with an objective to transform water security for the rural areas of the country. This would include ensuring clean and safe drinking water, constant water supply for irrigation, mitigating the occurrence and spread of water-borne diseases, and water pollution, and saving water sources from depleting, thereby contributing to the overall development of an individual and the Nation. Unnat Bharat Abhiyan, through its Water Resource Management SEG hosted at IIT Kharagpur, is providing expertise on multiple technology development and customization projects funded under the SEG. The SEG is actively contributing towards the implementation of 'catch the rain' initiative through providing guidance on the design and execution of water management interventions and working to ensure water security in villages in collaboration with stakeholders such as Jal Jeevan Mission, Vijnana Bharati, Department of Irrigation, Haryana, and the network of higher education institutions under Unnat Bharat Abhiyan.



Rainwater harvesting

Intervention: Rainwater Harvesting

Participating Institute: Alagappa Chettiar College of Engineering and Technology (Karaikudi, Tamil Nadu)

The villagers of Palavangudi of Kallaa block in Sivaganga and Alagappa Chettiar College of Engineering and Technology, Karaikudi made water reach its way to the villagers through rainwater harvesting. This project offered a solution to the fresh water crisis in the dry region with insufficient rainfall.



Intervention: Swachhata Hi Sewa Awareness Program

Participating Institute: IIM Ranchi

Unnat Bharat Abhiyan volunteers from IIM Ranchi conducted an awareness campaign in Lepsar and Chandidih village on the outskirts of Ranchi on 22 September 2019. The objectives of the campaign were to create awareness about the degradation of the environment by single-use plastic, suggest ways to reduce its usage, and proper disposal of plastic.

Intervention: Mobile-Operated Pond Water Cleaner

Participating Institute: Hyderabad Institute of Technology and Management (HITAM)

HITAM team identified one of the major problems of Pochampally village: unclean pond water. The students created a mobile-operated device that collects trash from the water without entering into the pond. Now, the same pond water can be used for various purposes.



Intervention: Well Census Program

Participating Institute: IIT Palakkad

The Well Census Program initiated by the Kerala State Ground Water Department was conducted at IIT Palakkad from 3 March 2021 to 2 April 2021 with the assistance of four external interns. It aimed to develop the groundwater database of Pudukkottai Gram Panchayat. The interns successfully conducted household surveys and collected relevant data in Pudukkottai Grama Panchayat using an android application called 'NEERARIVU' developed by Kerala State Remote Sensing and Environment Centre. Data have been collected for a total of 2,138 wells/structures from Pudukkottai Gram Panchayat.



Intervention: Water Treatment

Participating Institute: **NIT Manipur**

The villagers of Nambol, Manipur face an acute water crisis due to the unavailability of freshwater since the last several decades. Due to the consumption of polluted pond, the villagers suffer from several waterborne diseases. NIT Manipur took the initiative to solve the problem of clean water in the village.



Unnat Bharat Abhiyan team of NIT Manipur designed and constructed a low cost 9000L water treatment plant for Nambol village. The treatment plant serves at least 350 families spread over three km. A second treatment plant was constructed at another site that serves around 500 families of Maibam Chingmang Village. Awareness workshops, seminars, surveys were held by NIT Manipur to educate the villagers about the use of the water treatment plant and benefits of treated water.



One small step brings a major change. We, the villagers of Nambol, appreciate and thank Unnat Bharat Abhiyan and NIT Manipur for constructing a low-cost water treatment plant at our village.

- Netajini, General Secretary of Youth Sports Development Club, Nambol Makha Leikai, Manipur



Intervention: Setting Water Quality Centre

Participating Institute: **Vishwakarma University, Pune**

Vishwakarma University has adopted five villages under Unnat Bharat Abhiyan- Sambrewadi, Bhadalwadi, Thoptewadi (Ghera), Thoptewadi (Purva) and Mordari.

The villagers face various medical issues due to the unavailability of pure drinking water. They have to travel long distances to get good quality water. A survey was carried out in the adopted villages, near Khadakwasla Dam, surroundings of Sinhagad Fort (Pune, Maharashtra) to assess the problem of drinking water.

The Unnat Bharat Abhiyan team of the University provided pure drinking water to the villagers by setting up a Water Quality Centre in association with Wilo-Foundation, Germany.





Intervention: Pond Restoration

Participating Institute: **IIT Roorkee**

IIT Roorkee started the pond restoration initiative in 2017 in Meerpur village with an aim to make the pond available for villagers as a useful resource of clean water. The pond, located in the center of the village, was earlier used by the villagers as a dumping ground for household and agricultural waste.



Intervention: Construction of Soak Pit

Participating Institute: **Cauvery College for Women (Autonomous), Tamil Nadu**

Soak pit is a pit constructed near the water outlet of kitchen or bathroom and filled with filter materials which are locally available-pebbles, sand and brickbats.

Under the Unnat Bharat Abhiyan-sponsored project, a soak pit was constructed near the common washroom at village Malliampathu.



Intervention: Soak Pit Construction

Participating Institute: **Central University of Rajasthan**

With the support and active participation of villagers, 80 soak pits were constructed in villages associated with Central University of Rajasthan.



In our village more than 50 soak pits were constructed under Unnat Bharat Abhiyan implemented through Central University of Rajasthan, Bandarsindri. Due to this innovative idea, used wastewater gets absorbed, and there is no flow of water in streets. There is no dirt, no mosquitoes, no rotting, no miasma, and no ugliness. This drive positively impacted the ground water table and people's health.

- Vishnu Kunwar, Kheda Karma Shoutan Village, Ajmer District, Rajasthan

03

RURAL
ENERGY
SYSTEMS



Solar-cum-Electric -Powered 'Fan Gasifier' Smokeless Chullah

Intervention: Solar-cum-Electric Powered 'Fan Gasifier' Smokeless Chullah

Participating Institute: Christ University, Bangalore

The smokeless chullah production unit (a collaboration between Christ University, Chetana Women and Community Development Multipurpose Souharda Cooperative Society and BlueMatch Clean Cooking Solutions Pvt. Ltd.) is engaged in disseminating smokeless chulhas (The BlueMatch Pragathi EcoStove), a solar-cum-electric powered 'Fan Gasifier' Smokeless Chullah in Bangalore Rural and Chikkaballapur Districts. The women are also producing BlueMatch EcoPellets, an optimum fuel for the Pragathi EcoStove.



Intervention: Design, Development, and Dissemination of TEG-based Forced Draft Stove

Participating Institute: IIT Delhi

IIT Delhi designed a thermo-electric forced draft stove TEG to provide a smokeless, clean cooking experience to the households of Gandikhata cluster, Haridwar, Uttarakhand. The project was implemented in collaboration with ONGC.

A photograph showing several students in a workshop setting. They are focused on assembling solar lamps. The lamps have a yellow plastic housing and a small solar panel. One student in the foreground is looking down at a component on a table. Another student in the background is also working on a lamp. The workshop is well-lit, and the students are wearing light-colored shirts.

Intervention: Student Solar Ambassador Workshop

Participating Institute: IIT Palakkad

Fifty students from Government Vocational Higher Secondary School, Agali in Attapadi, Kerala, participated in the training program. A group of 10 trainers, including the faculty members, staff and research scholars from IIT Palakkad participated. A group of 5 students was allotted to each trainer. Instructions to the students required during the training were given through a PowerPoint presentation. All the students successfully completed the solar lamp assembling. Finally, the working solar study lamp was properly packed in the envelope provided with the lamp assembly components.



Intervention: Repairing of Solar Street Lights

Participating Institute: Sri Eshwar College of Engineering, Tamil Nadu

Charge Controllers were replaced in Kodhavadi village, Coimbatore, Tamil Nadu.



Intervention: Solar Crop Dryer

Participating Institute: **Vimal Jyothi Engineering College, Kerala**



Intervention: Solar Fertilizer Sprayer

Participating Institute: **Hyderabad Institute of Technology and Management (HITAM)**

HITAM students developed a solar fertilizer sprayer for spraying organic fertilizers. It doesn't require much labor and one person can easily complete the task in lesser time when compared to ordinary sprayers. The usage of organic fertilizers was also proposed to the farmers.



Intervention: Distribution of Solar Lanterns

Participating Institute: **Bankura Unnayani Institute of Engineering, West Bengal**

40 solar lanterns were distributed to the school-going children of Bagdiha village on 24 September 2019.



Intervention: Student Solar Ambassador Workshop

Participating Institute: **J.C. Bose University of Science and Technology, YMCA Faridabad**

Student Solar Ambassador workshop was organized by Unnat Bharat Abhiyan Cell, JCB University of Science and Technology, YMCA Faridabad on 2 October 2019.

4

**ARTISANS,
INDUSTRIES
AND
LIVELIHOODS**

Despite being the backbone of the non-farm rural Indian economy, the artisan system faces many fundamental issues because of which it is gradually losing its relevance. As the Prime Minister calls for Atmanirbharta, concepts like Make in India, and vocal for local, availability of innovation support, and creation of market linkages could go a long way in creating an enabling ecosystem for artisans and strengthening the industry, thereby resulting in the economic growth of the country as a whole. Unnat Bharat Abhiyan believes that investing in craft and artisan systems would offer a tremendous opportunity for the socio-economic upliftment of the rural communities. Through its SEG on Rural Craft and Artisans Development, headed by IIT Kanpur, Unnat Bharat Abhiyan is working to promote the development of rural crafts and artisans.

It is the need of the hour to instill an entrepreneurship culture in the rural population as our nation journeys towards Atmanirbharta or self-reliance. Unnat Bharat Abhiyan is working to provide platforms for promoting rural entrepreneurship through technological interventions, awareness generation among rural communities, skill- and capacity-building, and convergence with the government and private sectors to mobilize resources for the same, through collaboration with a) CSIR and VIBHA for dissemination of CSIR rural technologies and establishment of multiple 'National Rural Technology Demonstration Centers' across the country; b) NECTAR and FISS to revolutionize livelihood creation in the Northeast. Unnat Bharat Abhiyan has collaborated with the Tribal Co-operative Marketing Federation of India to facilitate the creation of sustainable livelihoods and provide Entrepreneurship Skill Development Program training on value-addition, processing, quality assurance, packaging, branding, and marketing of forest products to forest-based tribes.



Intervention: Support to Eco-Friendly Food Plate Preparation

Participating Institute: Career Point University, Hamirpur, Himachal Pradesh

Career Point University, Himachal Pradesh has adopted Kot village under Unnat Bharat Abhiyan. People of a certain community make leaf plates (Pattal) using leaves of *Bauhinia vahlii* (Taur), *Ficus roxburghii* (Tremal) and *Shorea robusta* (Sal) to serve food in marriages and other local functions. The university started making people aware of using these biodegradable plates as entrepreneurial initiative to improve their economic status and revive a dying traditional and eco-friendly way of life.



Intervention: Women Entrepreneurship

Participating Institute: Fatima Collage, Madurai

A summer internship training was organized by Fatima Collage, Madurai, Tamil Nadu.



Intervention: CARE – Haritha Karma Sena Cloth Bag Manufacturing Unit

Participating Institute:
IISER
Thiruvananthapuram

The Unnat Bharat Abhiyan cell of IISER Thiruvananthapuram has established a self-help group for women in Vithura village. The institute has provided machines for starting the cloth bag manufacturing unit. The unit is registered under the Kudumbashree state livelihood mission as a micro-enterprise.



Intervention: Promotion of Handloom Skills of Villagers

Participating Institute: **Central Institute of Technology Kokrajhar, Assam**

Interaction with villagers to learn and promote handloom skill at Haldaibari FV village, Kokrajhar, Assam.



Intervention: Development of Gram Vyapaar Digital Marketing App

Participating Institute: **Aarupadai Veedu Institute of Technology, Chennai**



Members of Aarupadai Veedu Institute of Technology trained villagers in handling the Gram Vyapaar digital marketing app.



Intervention: Workshop on Cloth Bag-Making

Participating Institute: **Assam Don Bosco University, Assam**

A 'workshop on cloth bag-making was organized by Unnat Bharat Abhiyan - Assam Don Bosco University Unit on 26 and 27 September 2019 to make people aware of the negative effects of plastic and to promote cloth bags as an alternative to plastic/polythene bags. A local tailor was invited to teach the women how to make cloth bags. Through this program, the participants were sensitized about the ill effects of plastic. They were happy to learn a new skill: now they can make bags using old cloths and don't need to spend money on buying bags.



Intervention: Training on Paper Bag-Making

Participating Institute: **Cotton University, Guwahati**

Sixteen groups of ladies from Hajongbori Village, Kamrup (Metro) District, Assam were motivated to get together and form a group - "Birangana Gramyo Sangathan." In this image, the group members are seen making paper bags to replace the plastic ones.



Intervention: Training on Cloth Bag-Making

Participating Institute: **St. Teresa's College (Autonomous), Ernakulam, Kerala.**

In line with Swachhta Hi Seva campaign, a cloth bag making competition was conducted at Njarackal panchayat by the students of St. Teresa's College (Autonomous), Ernakulam on 30 September 2019. The cloth bags made by the Kudumbashree members were displayed at Njarackal panchayat office. The bags, made from used clothes, contributed to effective waste management.



A group of twelve women from Njarackal panchayat were trained in cloth bag-making. The training was arranged by the Department of Botany at the TIBIC centre of St. Teresa's College (Autonomous), Ernakulam, Kerala, on 19 September 2019.



Intervention: Training Program for Women's Self-Employment

Participating Institute: Raja Narendra Lal Khan Women's College, West Bengal

We have been very much benefited from the cloth bag making workshop. Many ladies continued to stitch better bags after the workshop and used it for their own personal use. Many gifted a few to other women from the village who could not attend the workshop and encouraged them to use it instead of plastic bags. Today, we are also selling cloth masks made by using recycled clean clothes. Some of us have even had a good business opportunity during the initial days of the Covid pandemic, when we stitched face masks out of 'gamusa' and sold it to the shops.

- Nitu Kumari, Anganwadi Worker from Ural Basti Village who attended workshop on the Cloth Bag-Making.



Intervention: Training Program on Coir Product-Making

Participating Institute: Central University of Tamil Nadu (CUTN)

Training program on making of coir products for romen from the adopted villages was organized from 9 December 2020 - 8 February 2021.

Twenty women, in the age group of 18 to 40, were selected and provided training at CUTN campus in association with Coir Board.

05

**BASIC
AMENITIES**



Intervention: Menstrual Hygiene Awareness

Participating Institute: **IIM Ranchi**

IIM Ranchi conducted an awareness drive in Rasabeda village, Ranchi in collaboration with GRAM Association to understand and address the menstrual health issues of rural women. The females were taught how to use and dispose-off sanitary pads, stay hygienic, and not to worry about the whole menstruation process.



Intervention: Health Check-Up Drive

The institute organized a 'Health Check-up Drive' for the people of Rasabeda village, Ranchi on 30 August 2019. The team conducted a full body check-up (medical history, general examination, systemic examination, body-vitals' examination) of around 28 families.



Intervention: Health Camp for Tribal Community in Peenjamandhai Village

Participating Institute: **Vellore Institute of Technology**



Intervention: Counselling of Nomadic Girls

Participating Institute: **IIT Jammu**

Girls from nomadic communities get married at the age of 16 to 18. Due to inadequate gap between two birth cycles, they generally bear malnourished children. A counselling session was organized to aware them about maternal and child health. A local doctor conducted the session in close association with Unnat Bharat Abhiyan team members at the primary health centre of Jagti village on 3 January 2020.



First Aid Awareness program

Intervention: First Aid Awareness Program

Participating Institute: KCG College of Technology, Chennai, Tamil Nadu

A first aid awareness program was organized by the Rotaract Club of KCG College of Technology at Pullikundram Village. Pulavar Manickam, District Secretary, Red Cross Society, Kanchipuram District demonstrated the first-aid measures for various situations like road accident, heart attack, snake and other insect bites, electric shock, seizures and fire accidents. Seventy people from the village participated in the program.



Intervention: Interaction Session with School Children

Participating Institute: Cotton University, Guwahati

The Vice Chancellor, Cotton University interacted with primary school children of Keotpara Village, Kamrup (Metro) District, Assam on various environmental issues, national festivals and holidays, and the importance of discipline, hard work and good habits.



Intervention: Renovation of Toilets in Puthupathi Tribal Village

Participating Institute: **AJK College of Arts and Science, Coimbatore, Tamil Nadu**

The institute conducted baseline household survey and found that five individual toilets in the village were damaged and unusable. The institute took action to renovate the toilets. Fifteen SBSI team leaders were assigned responsibilities to renovate the toilet and monitor usage of those toilets on monthly basis. The SBSI teams visited the Puthupathy tribal village daily, renovated 5 toilets and taught the villagers to use and clean the toilets.





Intervention: Shishugram Renovation, Medical Camp, Animal Health Camp, Literacy Camp, and Skill-Building

Participating Institute: IIT Guwahati

IIT Guwahati has been organizing several programs to ensure inclusive development of the villages (Shishugram, North Guwahati, KV IITG, North Guwahati, Rajaduar, Kamrup Rural, Dirgheswari ME School, North Guwahati and Amtola, Kamrup) of the region. Programs like medical camp, animal health camp, literacy camp, skill-based training are organized from time to time.



Intervention: Construction of R.O. plant in Pathavaraka Village of Kaviti Mandal in Uddanam, Andhra Pradesh

Participating Institute: Dr. B. R. Ambedkar University, Andhra Pradesh



Intervention: Awareness Campaign

Participating Institute: [KKHA Arts](#), [SMGLCommerce](#) and [SPH Jain Science College](#), Maharashtra



Intervention: Collective Action for Rural Empowerment (CARE)

Participating Institute: **IISER Thiruvananthapuram**

The CARE program has different themes such as CARE-Marg Darshan, CARE-Educational Excellence Award, CARE-Anwasha (Annual Science expo), CARE-Outreach Program and CARE-Green Vithura, plastic-free Vithura campaign. Human Centered Design (HCD) method was followed to achieve the target of the program.

Intervention: Demonstration of Mobile App Developed by The University

Participating Institute: **Dr. B. R. Ambedkar University**

Members of Dr. B. R. Ambedkar University interacting with people of Pathavaraka and Jagathy villages of Kaviti Mandal in Uddanam, Andhra Pradesh on the use of Mobile App (developed by the University) to bridge the gap between the kidney patients and health service providers.





Intervention: Building as Learning Aid (BaLA) at Lower Primary School

Participating Institute: **Assam Don Bosco University, Assam**

Building as Learning Aid (BaLA) is an innovative approach under the aegis of the Right to Free and Compulsory Education (RTE) Act, 2009 that can help schools to become more child-friendly. BaLA is about developing school spaces like the walls, floors, windows, corridors and the surrounding spaces as learning resources. With the aim of encouraging fun learning, the Unnat Bharat Abhiyan Unit of Assam Don Bosco University in collaboration with a local NGO Avighna renovated the interior walls of Ural Lower Primary School by adopting the BaLA concept from 14-23 March 2021. The paintings aimed at addressing the challenges expressed by the students and teachers.



Intervention: Cattle Vaccination Drive

Participating Institute: **IIT Roorkee**

Cattle vaccination drive was held in Puranpur Village of Haridwar district on 20 October 2018 by IIT Roorkee.



Intervention: ICT Initiative, Cattle Vaccination Program, and LED Distribution

Participating Institute: **IIT Roorkee**

IIT Roorkee took up ICT initiative, cattle vaccination program, and LED distribution covering Chharba, Puranpur and Chandpur villages of Haridwar district in 2018.



Intervention: Hands-on Training for School Students

Participating Institute: **Amity University Rajasthan, Jaipur**

Unnat Bharat Abhiyan Cell, Amity University Rajasthan in association with AIMT visited Government Upper Primary School, Kalwar and conducted a training workshop for the school students on 20 February 2021. The main objective of this program was to train students on the usage of various scientific instruments.



Intervention: Counselling of the school dropout students

Participating Institute: [AJK College of Arts and Science, Coimbatore, Tamil Nadu](#)

The institute organized counselling program for the school dropout students in Muruganpathy tribal village on 2 January 2020. In the village, over 10 students have dropped-out from the schools. They identified the students through a household visit and gathered them at Muruganpathy temple and counselled them. The college students persuaded the dropout students to continue schooling. NSS Program officers discussed with Pichanur School Headmistress matters concerning the re-admission of dropout students.



Intervention: Implementation of Concrete Road Network in Hajarwadi Village

Participating Institute: [Rajarambapu Institute of Technology, Sangli, Maharashtra](#)



Intervention: Veterinary Clinical Camp

Participating Institute: **CSK Himachal Pradesh Krishi Vishwavidyalaya, Himachal Pradesh**

Veterinary clinical camp on infertility management was organized to treat infertility problems of animals at Dharer Panchayat on 13 March 2020. A total of 23 animals at Tara village were treated for different infertility problems such as anestrus, endometritis, small genitalia, infantile genitalia, silent estrus etc. and were provided different medicines and supplements such as mineral mixture, dewormers and ectoparasitocidal medicines free of cost. Two awareness lectures were also delivered to the farmers.



Intervention: Implementation of Underground Drainage System in Hajarwadi Village

Participating Institute: **Rajarambapu Institute of Technology, Sangli, Maharashtra**



Intervention: Mobile Hydraulic Lift

Participating Institute: **Indo Global College of Management and Technology, Punjab**



Intervention: Development of Universal Load Carrier Trolley



**Intervention: Development of
Cow Dung Cleaner**

**Participating Institute: Hyderabad
Institute of Technology and
Management (HITAM), Hyderabad**



Intervention: Environmental Awareness Generation through Wall Painting

Participating Institute: **Sri Ramachandra Institute of Higher Education and Research (DU), Tamil Nadu**

Wall Painting at Annambedu Village on 4 July 2018



Intervention: Awareness on Girls' Education

Participating Institute: **Choudhary B. R. G. Government Girls College, Ganganagar**

Choudhary B.R.G. Government Girls College, Ganganagar organized a program on the importance of educating girls in Ganganagar, Rajasthan along with the NSS team.



Intervention: Plastic-Free Campaign at Anaikatti, Thuvaipathy Tribal Village



Intervention: Toilet Construction

Participating Institute: **Sri Ramakrishna Engineering College, Coimbatore**

The college assisted the construction of 52 toilets under Swachh Bharat Abhiyan and Unnat Bharat Abhiyan at Annambedu village to make it an open defecation-free village.



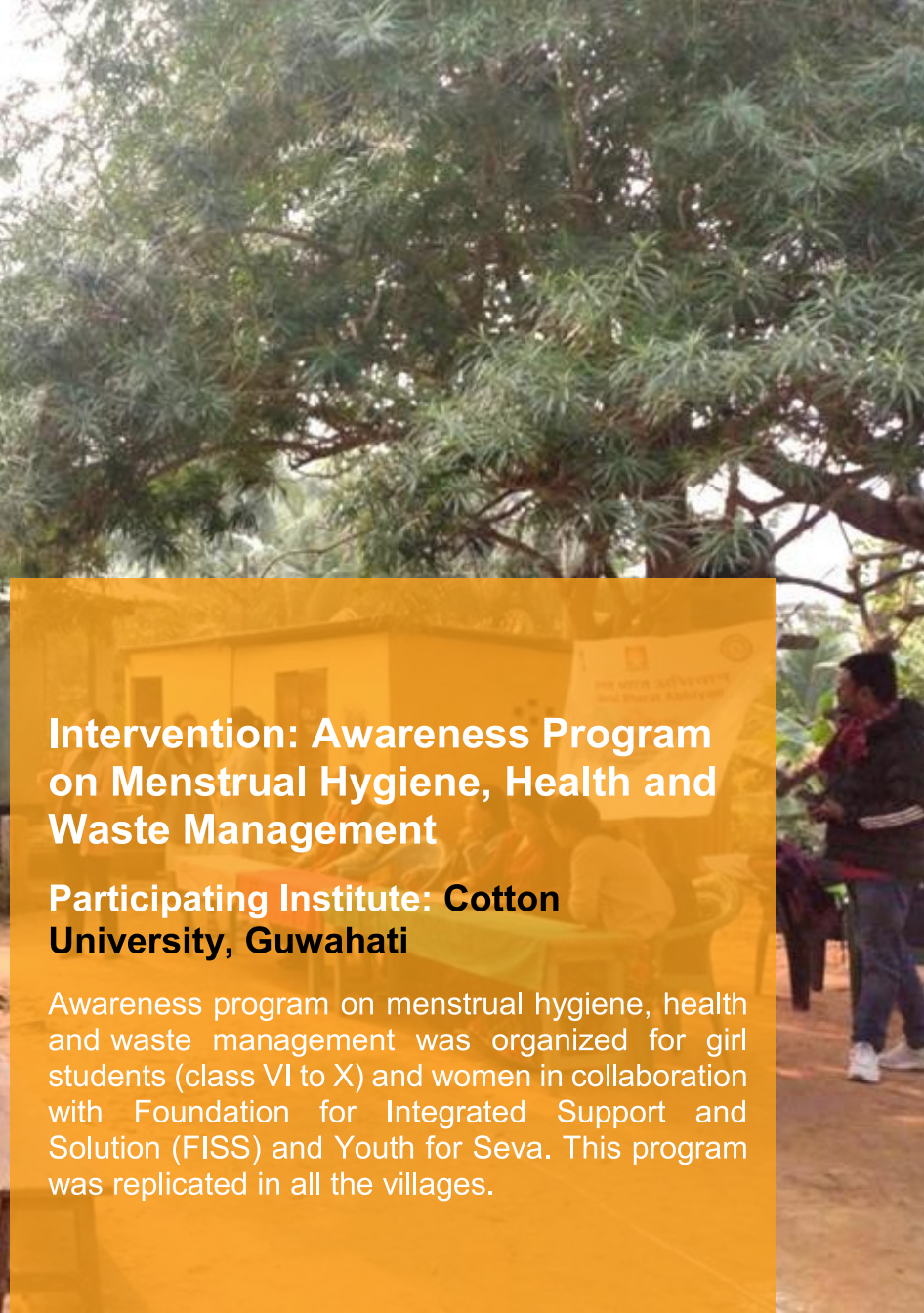
A team of **IIT Jodhpur** explaining the vision, mission and the activities of Unnat Bharat Abhiyan at Hingola Kalan village, Pali District, Rajasthan.



Intervention: Awareness Program on Menstrual Hygiene, Health and Waste Management

Participating Institute: Cotton University, Guwahati

Awareness program on menstrual hygiene, health and waste management was organized for girl students (class VI to X) and women in collaboration with Foundation for Integrated Support and Solution (FISS) and Youth for Seva. This program was replicated in all the villages.





Intervention: Training on Eco-Friendly Bag-Making

Participating Institute: **Mehr Chand Mahajan DAV College for Women, Chandigarh**



Plastic bags can be replaced by cloth or paper bags that are eco-friendly. Teaching kids the benefits and uses of paper bags is important. School children learned to make paper bags using the old newspaper lying unused in their houses.



Intervention: Community Outreach Program

Participating Institute: **Indira Gandhi Delhi Technical University for Women, Delhi**

Students of 4th year B.Arch. presented and discussed their ideas for proposed mobile-based applications to solve prevailing problems that were identified from household survey in November 2019.



Intervention: Laughter Yoga and Personal Hygiene for Health and Wellness

Participating Institute: **Chandigarh Engineering College, Landran, Mohali**

On 20 February 2020, Chandigarh Engineering College, village Maujpur, SAS Nagar, Mohali conducted one-day workshop on laughter yoga and personal hygiene for health and wellness.



Intervention: Village Household Survey and Data Collection

Participating Institute: **SASTRA**
Deemed to be University, Thanjavur,
Tamil Nadu

Volunteers of SCORE and NSS visited Thiruvengadamudayanpatti, Maruthakudi and Ayyasaamipatti villages to collect household data for an effective communication of their common problems to the government.



Volunteers visited over 400 houses in Sennampatti, Sellappanpettai, Aavarampatti and Thirumalaisamudram villages to conduct household survey under the Unnat Bharat Abhiyan scheme.



Intervention: Gram Sabha with Villagers

Participating Institute: **Chandigarh Engineering College, Landran, Mohali**

On 16 January 2020, Chandigarh Engineering College, along with the Sarpanch and Panchayat Secretary, village Sawara, SAS Nagar, Mohali, addressed the villagers during Gram Sabha and discussed various issues faced by them.



Intervention: Plastic-Free Village Campaign

Participating Institute: **IIT Palakkad**


On the 150th birth anniversary of Mahatma Gandhi, IIT Palakkad organized a plastic-free village campaign in the Unnat Bharat Abhiyan adopted village. A group of 100 students of IIT Palakkad undertook a plastic-free campaign. Students visited 400 households, collected their plastic waste, surveyed waste management practices used in the households, and distributed pamphlets having information on effective segregation of solid waste.



Intervention: Awareness Program on Conservation of Birds

Participating Institute: KPR Institute of Engineering and Technology, Coimbatore

An awareness program on 'Conservation of Birds and Erection of Sparrow Cage' was organized by Eco Club and SANGAMAM team at KPR Institute of Engineering and Technology on 23 November 2020. The event was held in collaboration with Wildlife Safety Nets Trust.

A group of children are performing a dance in front of a school building. The children are dressed in colorful traditional Indian attire. The school building has a sign in Hindi that reads 'प्राथमिक विद्यालय न रायनपुर'. The children are in various poses, some with arms raised, suggesting a traditional dance performance. The scene is outdoors on a paved area.

Intervention: Antahprerna, Sanmati, Utkarsh, Adhyayan Samvad Kendra, Kahani Ke Beetey Din, Vimarsh, Sambhavna, Abhyas for Maths, English, Gaurav, Rahi, Vivek Vigyan Utsav, and Saathi

Participating Institute: IIT Delhi

Unnat Bharat Abhiyan-IIT Delhi team, along with Vision India Foundation, has been working in 24 government schools across 10 villages in Vrindavan, Uttar Pradesh. As part of the work, 12 interventions have been designed namely 1) Antahprerna, 2) Sanmati, 3) Utkarsh, 4) Adhyayan Samvad Kendra, 5) Kahani Ke Beetey Din, 6) Vimarsh, 7) Sambhavna, 8) Abhyas for Maths, English, 9) Gaurav, 10) Rahi, 11) Vivek Vigyan Utsav, and 12) Saathi. They cater to the needs of all the three key stakeholders in education: teachers, parents and children.



Intervention: Tree Plantation

Participating Institute: **Kerala Agricultural University**



Intervention: Community Outreach Program

Participating Institute: **Indira Gandhi Delhi Technical University for Women, Delhi**

A painting competition was held in March 2020 at Government Girls Senior Secondary School, Nathupura, Burari as part of community outreach program of the Unnat Bharat Abhiyan cell of IGDTUW.

INTERVENTIONS BY SELECT PERENNIAL FUND AWARDEES

In 2020, the Ministry of Education opened new avenues for participating institutes that did excellent developmental work to garner support under Unnat Bharat Abhiyan.

A total of 74 participating institutes that had a track record of multiple development works/projects carried out in a village and were actively engaged on the ground to assist these projects were awarded 'Perennial Assistance' amounting to INR 1.75 lakhs each.



Intervention: Production of Moringa Powder and Moringa Soup Powder

Participating Institute: **St. Joseph's College, Tiruchirappalli**

St. Joseph's College, Tiruchirappalli received perennial fund from Unnat Bharat Abhiyan. Community-based Moringa project was successfully implemented in the adopted villages. It also helped the community raise income for their livelihood. The village SHGs are selling value-added products such as Moringa powder and Moringa soup powder with the help of Unnat Bharat Abhiyan cell.





Intervention: The Preparation and Training of Organic Fertilizer Prepared Using Indigenous Jai Gopal Earthworm

Participating Institute: **GLA University, Mathura**

Chemical pesticide causes harm to soil as well as to the plants. Organic farming helps control the harmful effect of chemical fertilizers and make agriculture practices sustainable. GLA University identified this problem and worked for the preparation and training of organic fertilizer preparation using indigenous Jai Gopal Earthworm. GLA University itself formulated and tested organic pesticide using natural products. This pesticide can be easily prepared using locally available materials. Its application showed positive results and villagers have been benefitted from this sustainable technology.





Intervention: Rainwater Harvesting Tanks

Participating Institute: **Ramco Institute of Technology, Rajapalayam**

Awareness program on rainwater harvesting was organized for school students in all the five villages. Rain water harvesting tanks were also built in the school premises of five villages to increase water table and create water resources for the benefit of the community.



Intervention: Training on Life Skills and Employability Skills

Training on life skills and employability skills was given to 150 students to benefit the students from the adopted villages.



Intervention: Solid Waste Management

Participating Institute: **R.M.K. Engineering College, Thiruvallur**

Garbage collection vehicle and garbage bins were donated to Puduvoal Panchayat on 27 April 2022.



Intervention: Pond Cleaning and Tree Plantation

The village Chinnakavanam is a religious place with 2,500 years old Shiva temple – Nootrettu Eswaran temple. The temple pond is completely dry. RMKEC cleaned the temple pond and planted trees around it.

80XC-W7G, Chinnakavanam, Tamil Nadu 601204, India

Latitude: 11.14760515°
Local 04:08:32 PM
GMT 11.18:32 AM

Longitude: 80.19841231°
Altitude: 70.40 meters
Thursday, 17.04.2022



Intervention: Livelihood Generation Through Distribution of Sewing Machine and Patta-Making Machine

Participating Institute: **Bhairab Ganguly College, North 24 Paragana**



Intervention: Construction of Check Dams



Swachhata Ranking Award

2017 for Open Defecation Free (ODF) village adopted under Unnat Bharat Abhiyan was awarded to 5 District Collectors and 5 PIs by Shri Prakash Javadekar, Hon'ble Minister of HRD (now MoE) on 14 September 2017.

Following PIs were presented the Swachhata Ranking Award 2017:

1. Indian Institute of Technology Indore
2. Central University of Rajasthan, Ajmer
3. Shri G.S. Institute of Technology and Science, Indore
4. Indian Institute of Technology Hyderabad
5. National Institute of Technology Warangal

WEBINAR SERIES: Understanding various modes of tribal development protecting their indigenous culture from external influence

Our work in aspirational districts and in close association with villages, in general brought to light that very little understanding about tribal communities existed among students and teachers of higher education institutes. In view of this and immense motivation provided by Shri Harsh Chauhan, Chairman, National Commission for Schedule Tribes (NCST), a webinar series entitled “Understanding Various Modes of Tribal Development Protecting their Indigenous Culture from External Influence” was conceptualized with the help of a group of academicians and intellectuals working on promotion of tribal studies in higher education institutes and organizations like ONGC foundation, Vanvasi Kalyan Ashram, etc.

The webinar series was inaugurated on 20 June 2020 by Chairman, NCST; CEO, ONGC Foundation; and National Coordinator, Unnat Bharat Abhiyan. It focuses on understanding the problems of tribal people and communities and potential solutions to deal with those problems through experiences shared by various experts in the field. Thus far, a total of 15 episodes have been streamed on YouTube that garnered about 18000 views.



UNNAT BHARAT ABHIYAN
A flagship program of
MHRD | Government of India
Ministry of Human Resource Development

One day Webinar on
"Understanding Various Modes Of Tribal Development
Protecting their Indigenous Culture from External Influence "

Organised By
National Coordinating Institute, IIT Delhi, USA
Date: 28th June, 2020 | 10:00 AM - 2:00 PM



Dr. Harsh Chandrah
Co-Founder
Miyanga Tanagra Gramotaka
Pune (MHRD), India



Dr. Rajan Rajan Prasad
Senior Manager (Environment)
National Hydro-power Corporation
Karnataka



Prof. Vivekanand Sharma
Dept. of Political Science
Miyam Lal College
Bihar University



UNNAT BHARAT ABHIYAN
A flagship program of
MHRD | Government of India
Ministry of Human Resource Development

One day Webinar on
"Understanding Various Modes Of Tribal Development Protecting
their Indigenous Culture from External Influence - 2 "

Organised By
National Coordinating Institute, IIT Delhi, USA
Date: 1 August, 2020 | 10:00 AM - 2:00 PM



Dr. Atul Debbarma
MBS, DCH, LLE Member,
Tripura Legislative Assembly



Prof. Anil Bose
Head of Department
Folklore Research Department
Dibrugarh University



Shri. Mantaling Jena
Sr. Secretary
Zelagrong Niraka Association



UNNAT BHARAT ABHIYAN
A flagship program of
Ministry of Education
Government of India

One day Webinar on
"Understanding Various Modes Of Tribal Development Protecting
their Indigenous Culture from External Influence - 3 "

Organised By
National Coordinating Institute, IIT Delhi, USA
Date: 29 August, 2020 | 10:00 AM - 2:00 PM



Shri. Jeevan Negi
Chief Information Commissioner
Arunachal Pradesh



Prof. Dipanker Borah
Secretary,
Yasu Vikas Kendra,
Guwahati, Assam



UNNAT BHARAT ABHIYAN
A flagship program of
Ministry Of Education
Government of India

One day Webinar on
"Understanding Various Modes Of Tribal Development Protecting
their Indigenous Culture from External Influence -4"

Organised By
National Coordinating Institute, IIT Delhi, USA
Date: 12 December, 2020 | 10:30 AM - 1:30 PM



Dr. Chander Mohan Parabeera
Director, Institute of Tribal Studies
Himachal Pradesh



Dr. Vishal Singh Nehra
State Vice President
Himachal Pradesh



Dr. Agarna Negi
Professor, Himachal
Pradesh University

INITIATIVES FOR STRENGTHENING RURAL INDIA AGAINST COVID-19

Awareness campaign – Gram Aarogya series

UNNAT BHARAT GRAM AAROGYA SERIES

उन्नत भारत ग्राम आरोग्य शृंखला

A Tribute to
Late. Prof. Rajendra Prasad
(Founding pillar of UBA Program)

A virtual learning initiative on COVID-19

Objectives

Health Awareness & Attention
Physical & Mental Health Management
Health habits and Goals
Recovering & Coping
Experience Sharing by COVID-19 Fighters

- Knowledge sharing by a panel of doctors and experts in every episode
- Delivery in regional languages
- Engagement and discussion with rural community

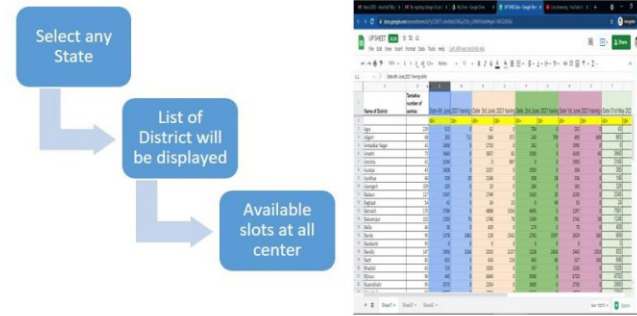
40 Episodes streamed live from 17 May - 9 July 2021 garnering 40,000 viewers

In 21 languages
English, Hindi, Marathi, Tamil, Gujarati, Kannada, Telugu, Tulu, Malayalam, Bangla, Bhojpuri, Sanskrit, Kashmiri, Urdu, Rajasthani, Dogri, Punjabi, Odiya, Hadoti, Marwadi, Maithili & sign language

Moderated by 15 higher education institutions across Unnat Bharat Abhiyan network

Vaccine slot tracker

NCI started a portal for real-time vaccine slot tracking from CoWIN website to get an easy view of available slots



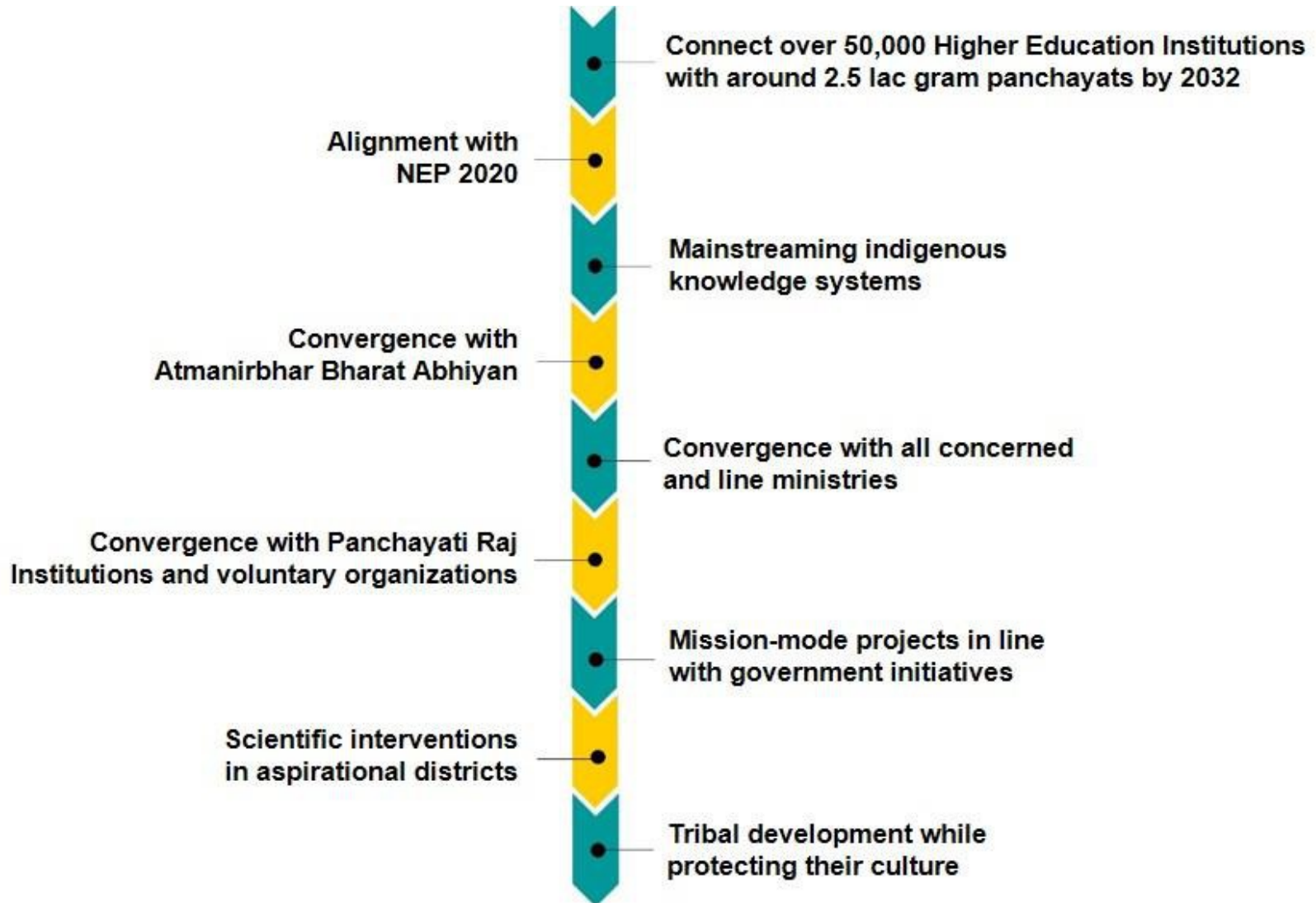
Telemedicine facility

- Free consultation with doctors through Vmed app and toll-free number
- Pilot done in IIT Delhi clusters
- 269 health volunteers registered for providing training to use this app in different village clusters of the country

WAY FORWARD

Unnat Bharat Abhiyan is a unique initiative of the MoE which has the potential for transforming the academic environment and the ethos of institutions of higher learning for expediting the process of sustainable development through the integration of science and technology with social and economic goals of the country. Leaping towards this goal, Unnat Bharat Abhiyan is striving to connect over 50,000 higher education institutes with around 2.5 lac gram panchayats in a decade. The National Education Policy 2020 has laid down a new and forward-looking vision for India's higher education system resonating with the goals of Unnat Bharat Abhiyan that will serve as a guiding force to the latter on its journey towards transformation of higher education in the years to come. Emphasis will be laid on mainstreaming indigenous knowledge systems to ensure that education is maximally relatable, relevant, interesting, and effective for the students.

Unnat Bharat Abhiyan has been catalyzing transformational change in villages through the active participation of local people, identification of the needs and problems of villages, and solving them with the development and transfer of appropriate technologies. Going forward, Unnat Bharat Abhiyan is keen to continue heading in this direction in convergence with the Atmanirbhar Bharat Abhiyan envisioned by the Hon'ble Prime Minister of India, Shri Narendra Modi. A convergence with all concerned and line Ministries, Panchayati Raj Institutions, and Voluntary Organizations engaged at the grassroots will be crucial for achieving Atmanirbharta in the villages. It will serve as a steppingstone to facilitating scientific interventions and mission-mode projects in rural areas with a focus on aspirational districts, and tribal communities whose cultures need to be protected from external influence.



ANNEXURES

MESSAGES

SUBJECT EXPERT GROUP COORDINATORS

Sustainable Agriculture System



Dr. B. S. Tomar
Joint Director Extension (Acting)
ICAR-IARI, New Delhi

The purpose of Sustainable Agriculture System SEG is to bring change in rural life through innovations happening in the agriculture sector in order to improve the livelihood security of rural mass in the country. The idea is to bring to halt the migration of the rural people engaged in agriculture to cities, livelihood security through agriculture development, create awareness for nutrition and nutritionally superior crop varieties of food, oil seed, vegetable and fruit plants to promote sustainable development of agriculture promotion of organic vegetable production to improve the soil health and soil microflora which help to mobilization of fix phosphorus potash to reduce the soil water contamination through nitrates, heavy metals and pesticides etc. Sustainable Agriculture System SEG evaluates the innovation proposals for their implementation with financial support for implementation in rural areas. Besides, customization of technologies relevant to agriculture is also evaluated and implemented.

Rural Infrastructure



Prof. Praveen Kumar
Head, Civil Engineering Department
MoRTH Chair Professor
Transportation Engineering Group
Department of Civil Engineering,
Indian Institute of Technology Roorkee

The SEG on Rural Infrastructure is working in the area of sustainable development of rural infrastructure especially roads and buildings. In the road sector, major projects are government sponsored projects where scope of public participation is less. A Mega Yojna known as Pradhan Mantri Gram Sadak Yojna (PMGSY) was launched on Dec 25, 2000 on the birthday of then Prime Minister, Shri Atal Bihari Vajpayee. Since then, yojna is successfully continuing. There are various waste materials available the country. There is a need to utilize these materials in road construction. Such materials include Steel Industry Slag, Waste Plastic, Fly Ash, Red Mud, Municipal Waste, Zarocite, Bagasse, Rice Husk Ash etc. These all can be fruitfully utilised in Road Construction. In buildings also, there is a lot of scope to utilise waste materials. Fly ash is being used in embankments and cement industry. With production of electricity from coal, fly ash is a by-product. Now-a-days, cement manufactured by adding flyash is known as graded cement. Low-cost housing is also the need of today. In rural areas, the funds are to be optimally utilised for low-cost houses. Apart from roads and buildings, the rural sector involves the making of general amenities in the villages with small funding. The SEG is financing such small projects also.

Capacity Building, Strategy for Convergence, and Implementation of Various Government Schemes



Dr. R Ramesh
Associate Professor
National Institute of Rural Development & Panchayati Raj
Hyderabad

The mission of this SEG is to enable villages to resemble model villages in terms of technology use, economic progress, and societal norms through making the best use of government programs, and local initiatives – facilitated by higher education institutes in the vicinity. The NIRDPR is constantly involved in capacity building of stakeholders in rural development. For the NIRDPR, the RCIs serve as strategic points for dissemination, and the PIs provide the facility of reaching the last mile, through cascading mode training and capacity building of rural development stakeholders spread across the country.

Water Resource Management



Dr. Manoj Kumar Tiwari
Fulbright Fellow, Ph.D.
School of Water Resources
Indian Institute of Technology Kharagpur

Effective management of water resources is vital for ensuring social wellbeing, as well as economic, agricultural and industrial growth of mankind. With rising water demands, several parts of India are facing moderate to extreme water scarcity. In addition, growing pollution of natural water resources is reaching to alarming levels. So, there is unavoidable need to plan and manage optimum use of available water resources.

Water Resource Management SEG has set off a vision to empower different level of stakeholders with required level of knowledge and skills for informed and improved decision making in water management, leading to upgradation in the living standards of serviced communities. Training and knowledge dissemination under this SEG encompass all major aspects of water quantity and quality management, spanning from water sources mapping, demand management, development of alternate resources, rainwater and stormwater capture and uses, water supply infrastructure development, water quality improvement through water treatment, and overall water security planning. Water Resource Management SEG also offers support for capacity building in water sector and oversees small technology development and demonstration projects on different aspects of water management in the villages. Water Resource Management SEG aligns with and contributes to some of the ambitious and well-admired government schemes like Har Ghar Jal scheme under the Jal Jeevan Mission, Catch the Rain campaign by Ministry of Jal Shakti, and Swachh Bharat Mission.

Rural Energy Systems



Prof. P.M.V. Subbarao
Professor and Head
Centre for Rural Development and Technology
Indian Institute of Technology Delhi

The SEG is focused on creating awareness among the PIs for submission of society-relevant technology development and customization project proposals in the area of rural energy systems (renewable energy development and utilization). The SEG works to review these proposals, and monitoring their implementation by the PIs. Documentation of success stories and development of publication materials for PIs and end users is an important component as well.

The future endeavours of this SEG will revolve around the following areas - solar thermal energy-based systems for drying of high-value crops and vegetables, piped biogas supply system in rural areas for the provision of clean cooking fuel, and decentralized solar photovoltaic system for power access in remote areas.

Rural Craft and Artisans Development, and Rural Industrialization and Entrepreneurship Development



Dr. Koumudi Patil
Professor
Indian Institute of Technology Kanpur

The purpose of this SEG is to assist artisans with the development and selection of appropriate machinery and tools, insights on contemporary design innovations, embedding design thinking in the learning cycle of craft knowledge, and encouraging entrepreneurial skills. In an attempt to make the craft sector Atmanirbhar, the expert group is planning to make model Karkhanas or workshops. Karkhanas are not only spaces of production but they are also a space for learning between master-apprentice, a place for selling and also living. Interventions in craft sector make changes in piece-meal, that is, in any one aspect- production, learning, and marketing. This does not affect the craft ecosystem, of which the Karkhana is a microcosm. Therefore, for a holistic and long-lasting change towards Atmanirbharta, this SEG is visualising the Karkhana as a model Maker's lab. The Maker's Lab will be a 24/7 training, design cum manufacturing facility that will focus on a) Fabrication facilities through introduction of appropriate, affordable, and acceptable technologies, development of a tool library, and rent-a-machine facility; b) Training of apprentices and upgradation of master artisans to new technologies and designs through workshops, and a diploma program through NVEQF; c) Development of a design library for exposure and learning through reverse engineering; d) Opening of direct marketing channels between artisans and the consumer by mentoring startups led by artisans; e) Trend mapping of consumer tastes for understanding market demand and to gear production towards the same.

With the above in mind, the SEG is already developing e-training content on design innovation, appropriate technology, packaging, and marketing for Unnat Bharat Abhiyan colleges and artisan communities.

Environment and Sustainable Resource Management



Dr. Pramod Kumar

Professor, Department of Chemistry
Sri Aurobindo College, University of Delhi
(Former Registrar, JNU Delhi)

Rural areas face a variety of issues as a result of economic development and population growth, including environmental pollution, land degradation and desertification, resource depletion, biodiversity loss, inadequate sanitation, a lack of drainage infrastructure, problems with waste disposal, and risks to the public health. The main goal of the Environment and sustainable resource management SEG is to address issues existing in rural village environment including water pollution, watershed, indoor air quality, soil pollution, ecology and biodiversity, etc. The SEG is focused to assist the relevant stakeholders in understanding the goals, viewpoints, and principles of sustainable development and environmental management; understanding the connections between the environment, society, and development, and improve planning abilities for the environment.

Sanitation and Solid Waste Management



Prof. Indumathi M Nambi
Professor
Department of Civil Engineering
Indian Institute of Technology Madras

The modern era villages which are consumers and generators of large volumes of plastic, rubber, cloth waste in different forms. There is an urgent need to develop a strategy to handle the new waste streams that have evolved essentially for plastic and sanitary waste. In view of this, the sanitation and solid waste management SEG is striving to develop model villages in solid waste management that alleviate all waste streams in an environmentally sound and economically sustainable manner. Efforts are being put in to handle the newly evolved waste streams by transforming the technical solutions in the laboratory to pilot scale at the village/ mandal level. Video messages on how these model villages operate would be captured and can disseminated to other parts of India and can be replicated all throughout the country by tweaking a little to acclimatize to local conditions.

In addition, new technologies aimed at waste-to-value circular economy solutions which are being developed in research labs have to be taken to the field, while there are others that can be scaled up in villages creating rural employment. We envisage to bring out ideas to generate economic and employment benefits from solid waste management projects, so that it is a win-win situation for both public and administrators. These ideas can be flagged and adopted by PIs through technology customization grants. Also, a compendium with a repository of case studies with best practices is being documented to be disseminated for the benefit of all.

Ethos in Technical Institutions



Prof. Anand B. Rao

Professor and Head

Centre for Technology Alternatives for Rural Areas (CTARA)

Indian Institute of Technology Bombay

The Ethos in Technical Institutions SEG aims at strengthening the Unnat Bharat Abhiyan framework and enabling its institutions to achieve the goals of the program. The key objectives of the SEG are a) to build skills of observation, analysis, and documentation, b) to create mechanisms for institutions to interact with the regional agencies, and c) to connect science with development and develop an understanding of the village scenario and also improve student employability.

The future endeavors of this SEG will be focused on building an understanding of the development agenda within the higher education institutes by providing them with training relevant to national, regional, and local needs, especially those of rural areas. It will enable the Unnat Bharat Abhiyan institutions to develop linkages with the regional agencies and engage in dialogues on topics of regional interest. Along with this, we are also looking forward to collaborating with SEG on 'Curriculum Reforms and Educational Institutions Social Responsibility' which is handled by UGC in order to align curriculum and research with the development agenda and introduce the CTARA approach to the concerned SEG.

MESSAGES

REGIONAL COORDINATING INSTITUTE COORDINATORS

Regional Coordinating Institute: IIT Jammu
Coordinator- Dr Rakesh Singhai

IIT Jammu is working in districts like Kargil, Leh, Samba, Rajouri etc. IIT Jammu had carried out training in traditional handicrafts (Binna) for village women. In the current year, it plans to quadruple its PIs from 5 to 20. The RCI aims to provide skill training to village youth for improving employability and ensuring healthy living through waste management in every household and working on the Government of India's carbon neutral program and is active in the village of Palli, which is the first carbon neutral village in India.

Regional Coordinating Institute: Gandhigram Rural Institute, Dindigul
Coordinator- Dr. K. Ravichandran

Gandhigram Rural Institute coordinates the Unnat Bharat Abhiyan programs of 130 PIs covering eleven districts in Eastern Tamil Nadu. RCI-GRI organized a virtual internship program on sustainable development goals and community engagement, covering 3914 students and faculty members of PIs in India. RCI-GRI also serves as the UGC regional centre for capacity building of faculty members in Southern India (eight states) as Master Trainers for Community Based Participatory Research under Unnat Bharat Abhiyan. The first batch of the Master Trainers Training Program was organized from 27-29 April 2022. The establishment of village knowledge centres and student internship programs are ongoing programs of the PIs.

Regional Coordinating Institute: Sant Gadge Baba Amravati University
Coordinator- Dr. Manoj Kumbhare

RCI Sant Gadge Baba Amravati University established under Unnat Bharat Abhiyan is one of the premier institutes of Vidarbha and Marathavada regions in Maharashtra, and is actively working in Eastern Maharashtra region. It aims to be a centre of excellence for promoting education, training, research & providing extension services in the area of rural development by effective implementation of government schemes through higher education systems.

Regional Coordinating Institute: Kerala Agricultural University
Coordinator- Dr. Jayasree Krishnankutty

Kerala Agricultural University is coordinating the activities of the central Kerala region. Kerala Agricultural University has endeavored for the holistic development of the village clusters using eco-friendly sustainable technologies for the upliftment of the rural population. Training programs related to liquid organic manure production, Integrated farming systems, processing and value addition of vegetables, poultry rearing programs, compost production programs, mushroom production and pest and disease management in vegetables were conducted in the adopted villages under KAU. KAU is actively working in districts like Lakshwadeep, Ernakulam, Kottayam etc.

Regional Coordinating Institute: IIT Bombay
Coordinator- Prof. Anand B Rao

The Centre for Technology Alternatives for Rural Areas anchors the Unnat Bharat Abhiyan activities at IIT Bombay. As an RCI, IIT Bombay is working as a nodal centre for promoting and facilitating a network of 240+ Unnat Bharat Abhiyan PIs in western Maharashtra (Konkan and Pune Division), Goa and Dadra & Nagar Haveli. RCI IIT Bombay organizes monthly district-level meetings to hold decentralized focused discussions with the PIs, to help them organize and conduct Unnat Bharat Abhiyan activities.

At CTARA, apart from the academic programs, other various project activities focus on the technology needs of rural India. One of the most important among them is the RuTAG, which has been working on

developing and promoting new innovative technologies for rural areas. We have introduced the RuTAG technologies and the methodologies to our PIs and explored the opportunity to collaborate. A few PIs are in the process of working together for the dissemination of the RuTAG technologies.

Regional Coordinating Institute: Indian Institute of Technology Palakkad
Coordinator- Dr. Athira P

Indian Institute of Technology Palakkad is the RCI of Unnat Bharat Abhiyan for the districts Palakkad, Kozhikode, Kannur, Wayanad, and Kasargod. IIT Palakkad has selected water conservation and geo-spatial decision support system for rural development as the main thematic area of the region. Through Unnat Bharat Abhiyan, IIT Palakkad is able to resolve many unaccounted issues related to rural areas and are actively engaged in livelihood generation.

Regional Coordinating Institute: National Institute of Rural Development and Panchayati Raj, Hyderabad
Coordinator – Dr. Lakhan Singh

NIRDPR, as an apex institution of rural development has been organizing capacity-building programs on topics like rural development, participatory rural appraisal, appropriate technologies for rural development, engagement of higher education institutions in rural development, Covid-19 etc. for both RCIs and PIs of Unnat Bharat Abhiyan since its inception, and would continue to do so in the future. NIRDPR is actively engaged in western Telangana in central districts like Medak, Nagarkurnool, Sangareddy etc.

Regional Coordinating Institute: National Institute of Technology, Manipur
Coordinator- Dr Albino Kumar

RCI of Manipur has conducted orientation programs and numbers of consultative meetings in districts to inspire the colleges to register under Unnat Bharat Abhiyan. NIT Manipur is active in region of Imphal (East and West). Water Management Program, Free Eye Camp, Health Awareness program, etc. are regularly organized to uplift the health and community development of the rural villagers. In order to sustain the villagers from Covid 19, the NIT team has given extensive support such as Covid preventive awareness campaign, distribution of basic essential items, etc. to the villagers.

REGIONAL COORDINATING INSTITUTES

| S.No. | State/ Region | Institute | Coordinator |
|-------|--|--|-------------------------------|
| 1 | Arunachal Pradesh | North Eastern Regional Institute of Science and Technology | Prof. Pradip Lingfa |
| 2 | Assam, Meghalaya, Mizoram, and Nagaland | Indian Institute of Technology Guwahati | Prof. Srinivasan Krishnaswamy |
| 3 | Bihar | National Institute of Technology Patna | Dr. Kamini Sinha |
| 4 | Central Kerala | Indian Institute of Technology Palakkad | Dr. Athira |
| 5 | Central Madhya Pradesh | Maulana Azad National Institute of Technology Bhopal | Dr. Pushpender Yadav |
| 6 | Central Uttar Pradesh | Dayalbagh Educational Institute | Dr. Akashay Kumar Satsangi |
| 7 | Central/Eastern Rajasthan | Malaviya National Institute of Technology Jaipur | Dr. Namita Mittal |
| 8 | Chhattisgarh | National Institute of Technology Raipur | Dr. Sudhakar Pandey |
| 9 | Coastal Andhra Pradesh | Andhra University | Prof. Nagaraja |
| 10 | Delhi and NCR | Indian Institute of Technology Delhi | Prof. Priyanka Kaushal |
| 11 | Eastern Maharashtra | Visvesvaraya National Institute of Technology Nagpur | Dr. A. V. Deshpande |
| 12 | Eastern Maharashtra (Nagpur, Amrawati Division) | Sant Gadge Baba Amravati University | Dr. Manoj Kumbhare |
| 13 | Eastern Maharashtra (Aurangabad, Nasik Division) | Dr. Babasaheb Ambedkar Marathwada University, Aurangabad | Dr. T.R. Patil |

| | | | |
|----|------------------------|---|----------------------------|
| 14 | Eastern Uttar Pradesh | Indian Institute of Technology BHU | Prof. Shishir Gaur |
| 15 | Gujarat | Indian Institute of Technology Gandhinagar | Prof. Pranab Mohapatra |
| 16 | Gujarat, Daman and Diu | Sardar Vallabhbhai National Institute of Technology Surat | Prof. K.D. Yadav |
| 17 | Haryana | National Institute of Technology Kurukshetra | Dr. Sathans |
| 18 | Himachal Pradesh | National Institute of Technology Hamirpur | Dr. Chander Prakash |
| 19 | India | IGNOU | Dr. S. K. Yadav |
| 20 | Jammu & Ladakh | Indian Institute of Technology Jammu | Prof. Rakesh Singhai |
| 21 | Jharkhand | National Institute of Technology Jamshedpur | Dr. Ranjit Prasad |
| 22 | Karnataka | IISc Bangalore | |
| 23 | Kashmir | National Institute of Technology Srinagar | Dr. Mohammad Farooq Wani |
| 24 | Kerala & Lakshadweep | Kerala Agriculture University | Dr. Jayasree Krishnankutty |
| 25 | Manipur | National Institute of Technology Manipur | Dr. Albino Kumar |
| 26 | Northern Karnataka | Karnataka University, Dharwad | Dr. N. Ramanjaneyalu |
| 27 | Odisha | National Institute of Technology Rourkela | Dr. R.K.Patel |
| 28 | Punjab, Chandigarh | National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh | Dr. Hemant Kumar Vinayak |
| 29 | Southern Kerala | IISER Thiruvananthapuram | Prof. M.P. Ranjan |

| | | | |
|----|--|---|------------------------|
| 30 | Southern Rajasthan | Maharana Pratap University of Agriculture and Technology, Udaipur | Dr. P.K. Singh |
| 31 | Southern West Bengal | Indian Institute of Technology Kharagpur | Prof. Rintu Banerjee |
| 32 | Southwest Andhra Pradesh | Sri Venkateswara Veterinary University Tirupathi | Dr. Kapa Sarjan Reddy |
| 33 | Tamilnadu, Pondichery, Andaman & Nicobar | Indian Institute of Technology Madras | Prof. B.S. Murty |
| 34 | Tripura | National Institute of Technology Agartala | Dr. Umesh Mishra |
| 35 | Uttarakhand, Western Uttar Pradesh | Indian Institute of Technology Roorkee | Prof. Ashish Pandey |
| 36 | West Bengal & Sikkim | National Institute of Technology Durgapur | Dr. Shri Krishan Rai |
| 37 | Western Madhya Pradesh | Shri Govindram Seksaria Institute of Technology and Science, Indore | Dr. Milind Dandekar |
| 38 | Western Maharashtra, Goa, Dadra and Nagar Haveli | Indian Institute of Technology Bombay | Prof. Anand B. Rao |
| 39 | Western Rajasthan | Indian Institute of Technology Jodhpur | Dr. Anand K. Plappally |
| 40 | Western Tamil Nadu (Southern Districts) | Gandhigram Rural Institute, Dindigul | Dr. K. Ravichandran |
| 41 | Western Tamil Nadu (Western and Central Districts) | Tamil Nadu Agricultural University, Coimbatore | Dr. E. Soma Sundararn |
| 42 | Western Telangana | National Institute of Technology Warangal | Dr. G. Sunitha |
| 43 | Western Telangana (Central Districts) | National Institute of Rural Development and Panchayati Raj | Dr. Lakhan Singh |
| 44 | Western Telangana (Southern Districts) | Mahatma Gandhi National Council of Rural Education | Mr. P. Sudheer Kumar |
| 45 | Western Uttar Pradesh | Indian Institute of Technology Kanpur | Prof. Sandeep Sangal |

KEY DEVELOPMENTS, EVENTS, MEETINGS, AND WORKSHOPS

1. Launch workshop of Unnat Bharat Abhiyan, **September 2014**
2. Apex Committee meeting (chaired by MoE), **19 June 2015**
3. Letters to all Chief Secretaries of state government for supporting Unnat Bharat Abhiyan, **24 August 2015**
4. MoU with 143 PIs
5. First NSC meeting, Inauguration of Unnat Bharat Abhiyan cell by Smt. Smriti Zubin Irani, the then Hon'ble Minister of Education and discussion on further plan of action, **29 April 2016**
6. Video conference under the chairmanship of Secretary, MoE, **21 May 2016**
7. Activity planning workshop for mentoring institute and subject expert group coordinators, **22-23 August 2016**
8. 2nd NSC meeting, **6 October 2016**
9. Regional workshop for South zone, **4 November 2016**
10. Regional workshop for West zone, **10 November 2016**
11. 1st training program for capacity building and participatory planning of nodal officers of PIs for implementing Unnat Bharat Abhiyan, **4-6 January 2017**
12. Tripartite agreement between MoE, Ministry of Rural Development, and Ministry of Panchayati Raj, **12 January 2017**
13. 2nd training program for capacity building and participatory planning of nodal officers of PIs for implementing Unnat Bharat Abhiyan, **31 March – 3 April 2017**
14. Brainstorming meeting to discuss the strategy for field interventions by technological institutions, **21 July 2017**
15. Video conference for implementation of Unnat Bharat Abhiyan, **28 July 2017**
16. Brainstorming meeting to discuss fundamental changes in education (values, ethos, skill development etc.), **5 August 2017**

17. Meeting at MoE to discuss implementation of Unnat Bharat Abhiyan, **9 August 2017**
18. Rural and swadeshi startup meet in collaboration with Swadeshi Jagran Manch, **2 December 2017**
19. New Office Memorandum issued by MoE regarding Unnat Bharat Abhiyan, **20 February 2018**
20. PIs selected through Open Challenge Mode, **February 2018**
21. Orientation and launch of Unnat Bharat Abhiyan 2.0 by Dr. Satya Pal Singh, Hon'ble Minister of State, MoE, **25 April 2018**
22. First instalment of funds received, **19 May 2018**
23. Meeting of SEGs, **26 May 2018**
24. Activity planning workshops all over the country at 12 regional centres for PIs, **July-August 2018**
25. Orientation workshops for all new selected PIs, **November - December 2018**
26. Review meeting by Secretary (HE) on Unnat Bharat Abhiyan, **7 December 2018**
27. First meeting of RCIs and MoU signing, **6 March 2019**
28. Webinars with SEGs and RCIs, **May-June 2019**
29. 1st Tech4Seva, a 3-Day Workshop inaugurated by the then Secretary, MoE and DST, and witnessed by various eminent personalities including Shri Giriraj Singh, the then Hon'ble Minister of Animal Husbandry, Acharya Balkrishnan, Patanjali Yogpeeth, and Dr. Anil Kakodkar, **10-12 August 2019**
30. Orientation Workshop, **24 September 2019**
31. Four National Executive Committee Meetings, **28 November 2019, 21 May 2020, 27 October 2020, 18 October 2021**
32. National meeting of participating institutes for subject expert group, **9 -10 December 2019**
33. Workshop on MDP for rural development leadership, **3-6 February 2020**
34. Seminar on water resource management, **14 May 2020**
35. Webinar on water security in hilly areas, **28 May 2020**
36. Understanding various modes of tribal development, 15 episodes streamed from **20 June 2020 - 28 July 2022**
37. Unnati Ki Kahani Chitron Ki Jubani, **July 2020**
38. Training program for Unnat Bharat Abhiyan PIs in Aspirational districts, **16-18 July 2020**
39. National webinar on community engagement, institutional social responsibility and social work profession in higher education, **22 July 2020**
40. MoU with VIBHA and TRIFED, **24 July 2020**
41. MoU with VIBHA and CSIR, **28 July 2020**
42. Announcement of Perennial Fund, **15 August 2020**

43. Launch of 'CSIR Technologies for Rural Development' - a joint initiative of CSIR, Unnat Bharat Abhiyan and VIBHA by Hon'ble Minister Dr. Harsh Vardhan, **30 September 2020**
44. National Subject Expert Group Advisory Committee meeting, **17 February 2021**
45. MoU with VIBHA and NECTAR, **3 March 2021**
46. Technology demonstration for rural entrepreneurship, **19 March 2021**
47. DSIR-PRISM awareness event inaugurated by Dr. Harsh Vardhan, Hon'ble Union Minister and Shri Sanjay Dhotre, Hon'ble Minister of State, MoE, **30 March 2021**
48. Conclave on 'Transforming Meghalaya State Through S&T Interventions,' **9-10 April 2021**
49. Meeting to explore collaboration possibilities with Prabuddh Gram Yojana, **26 April 2021**
50. Unnat Bharat Gram Aarogya Series, 41 episodes streamed from **12 May 2021 – 9 July 2021**
51. MoU with FISS, NECTAR, and VIBHA, **23 May 2022**
52. Launch of COVID-19 Mobile App, **7 June 2021**
53. Meeting to discuss the establishment of technology demonstration centers in the Northeast, **6 September 2021**
54. 2nd Tech4Seva, **20-23 October 2021**
55. अंतरराष्ट्रीय गीता महोत्सव – २०२१ inaugurated by Shri Subhash Sarkar, Hon'ble Minister of State, MoE, **14 December 2021**
56. 'Brainstorming Conclave on Atmanirbhar North East Through S&T Interventions,' **21-22 December 2021**
57. Brainstorming session on technology dissemination from government research institutions to stakeholders at grassroot level, **13 January 2022**
58. Release of publication on CSIR technologies for rural livelihood – building Atmanirbharta with S&T, **14 January 2022**
59. COVID E-Book release, **12 April 2022**
60. Workshop for orientation of RCIs, **9-10 June 2022**
61. Technology demonstration and networking meet, **29-30 June 2022**
62. 3rd Tech4Seva at Regional Level, **22 June 2022 – ongoing**



मुझे उन्नत भारत अभियान के साथ जुड़ कर बहुत सी नई चीजें सीखने को मिली। एनआईटी जमशेदपुर द्वारा दिए गए प्रशिक्षण से आज मैं कई कलाकृतियाँ जैसे गोबर के दिए, धूप बत्ती और मिट्टी से दुर्गा की प्रतिमा बना रहा हूँ तथा अन्य ग्रामीणों को भी इसके लिए प्रशिक्षित कर रहा हूँ। काम कर के बहुत अच्छा लगता है।

- Paresh Chandra Mandal, Kera village, Jharkhand

उन्नत भारत अभियान ने हमें मशरूम प्रशिक्षण दिया और अब हम मशरूम की खेती हर साल करते हैं। इससे हमे खाने के लिए पौष्टिक मशरूम तथा बेचकर लागत तथा मुनाफा भी अच्छा मिल जाता है। मशरूम कम्पोस्ट वेस्ट का उपयोग हम खाद के लिए करते हैं।

- Sudhakar Singh, Farmer, Pilli Padao village, Haridwar

Two SHGs are manufacturing paper carry bags and earning around Rs. 5,000 per month. It is empowering women and reducing the pressure to migrate to cities in search of petty jobs.

- Prof. Rajeev Kumar, Coordinator, Unnat Bharat Abhiyan
Birla Institute of Technology Mesra, Ranchi

Our students are educating children in the village and conducting workshops, especially for the weaker sections. This has led to a healthy social bonding, helping all of them grow as good human beings.

- Prof. Neetu Sharma, Coordinator, Unnat Bharat Abhiyan
Government Engineering College, Ajmer



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