



2020 ANNUAL REPORT

UNNAT BHARAT ABHIYAN (UBA)

National Institute of Technology Rourkela (NITRKL)
Regional Coordinating Institute (RCI), Odisha



उन्नत भारत अभियान
UNNAT BHARAT ABHIYAN

ଉନ୍ନତ ଭାରତ ଅଭିଯାନ



PRESENTED BY

UBA Team, NITRKL

10+

Events

56

Participating Institutes

200+

Active Members

286

Villages

10000+

Beneficiaries

National Institute of Technology Rourkela

REGIONAL COORDINATING INSTITUTE, ODISHA

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.

MISSION

The Mission of Unnat Bharat Abhiyan 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. It also aims to create a virtuous cycle between society and an inclusive academic system by providing knowledge and practices for emerging professions and to upgrade the capabilities of both the public and the private sectors in responding to the development needs of rural India.

UBA@NIT Rourkela

NIT Rourkela actively targets to use the expertise available in the institute to improve the quality of rural life through innovative and affordable technological interventions. Some of the issues to be addressed in the first phase are improvement in skill development for unemployed youth, quality of school education, agriculture, sanitation, health care, awareness towards digital India, renewable energy use, basic infrastructure, plantation and self-reliance.



Prof. Animesh Biswas



Prof. Mahabir Panda



Prof. Raj Kishore Patel



Prof. Angana Sarkar



**Prof. P.
Balasubramanian**



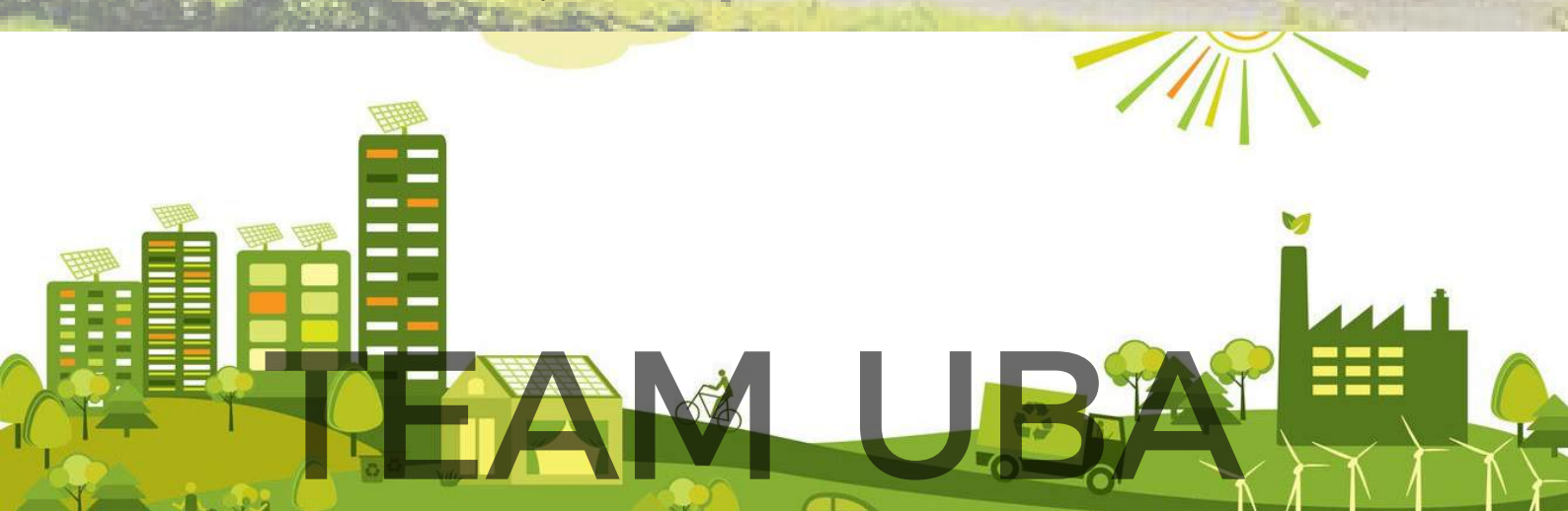
Prof. Kasturi Dutta



Prof. Sabyasachi Mishra



Prof. Bibekanand Mallick



Preface

Director's Message

It is a great pleasure to unveil the booklet showcasing the year round activities of Unnat Bharat Abhiyan cell of National Institute of Technology Rourkela as a participating and regional coordinating institute of Odisha state. The UBA team of NIT Rourkela have been actively working in developing strategies for problem solving and resource mapping to improve the livelihoods of people in the adopted villages along with handholding of participating institutes throughout the state. The significant achievements of the UBA showcased here is expected to inspire the academic institutions to extrapolate their knowledge and join hands with NIT Rourkela for improving the standard of living in the rural society. I congratulate the UBA team and wish them all success in the future endeavors.



Prof. Animesh Biswas
Director, NITRKL

Regional Chairman's Message



Prof. Mahabir Panda
Dept. of Civil Engineering,
NITRKL

This is a matter of great pride and privilege as a regional chairman to congratulate my UBA-NITRKL team for bringing out this booklet. The booklet presents the glimpse of year round activities and highlights the role of UBA-NITRKL in association with the Grama panchayats, voluntary organizations in tackling the needs of the adopted villages using locally available and eco-friendly resources. The information provided will necessarily act as a motivation not only to other academic institutions, but also on our own core team to continue working for the betterment of the rural society.

Nodal Coordinator's Message

It gives me an immense pleasure to present the booklet highlighting the activities of UBA-NITRKL. As a regional coordinating institute for the state of Odisha, we have made an attempt to showcase the year long activities for motivating the faculty members and students of higher educational institutions to undertake more such societal initiatives in the near future. I also extend my hearty thanks to our UBA team for their untiring efforts, the participating institutes for sending us their work progress and also the National Coordinating Institute of UBA, IIT Delhi for their cooperation and support extended to NIT Rourkela all through the journey. We look forward to strengthen the networking further and work together for the noble cause of rural development.



Prof. Raj Kishore Patel
Dept. of Chemistry, NITRKL

Convener's Message



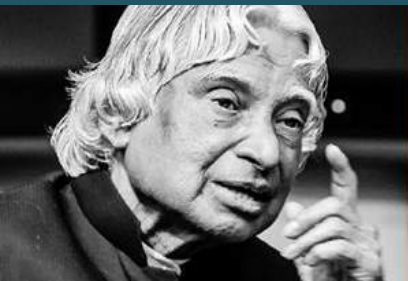
Prof. P. Balasubramanian
Dept. of Biotechnology & Medical
Engineering, NITRKL

UBA team at NIT Rourkela is committed to utilize the technical knowledge, expertise and skills to better use the available resources in improving the economic and social status of rural people. Over the last couple of years, UBA team at NIT Rourkela is striving hard to improve the environment, health, education, basic amenities as well as providing employment to the rural masses. The booklet showcases the untiring efforts in the last year and achievements of our UBA team along with student volunteers. Although transforming rural India is a bit challenging task but we hope our experiences and learning will contribute to all endeavors aimed at bringing sustainable transformation in the lives of rural people.



UBA 2019: YEAR IN REVIEW RECAP

- Medical camp, tree plantation drive, household survey, sanitation awareness programs were conducted to promote the life standards of the rural people in the adopted villages.
- The first regional orientation program for participating institutes (PIs) was conducted in NIT Rourkela on 24th May 2019, where 17 institutes participated and a dedicated webpage for UBA-NITRKL (RCI Odisha) was launched.
- A full-fledged office to co-ordinate UBA activities with all facilities started functioning from 1st August 2019.
- The number of participating institutes increased from 40 to 56 due to the continuous efforts of UBA-NITRKL team and the support given by the District Collector, further they were instructed to organise events for rural welfare.
- A Grama Sabha meeting was arranged on the occasion of Independence Day (15th August 2019), where the UBA-NITRKL team interacted and listed the challenges faced by the villagers.
- Organic farming program was conducted in the Jhirpani Village on 3rd November 2019.



“Almost half of the population of the world lives in rural regions and mostly in a state of poverty. Such inequalities in human development have been one of the primary reasons for unrest and, in some parts of the world, even violence.”

A. P. J. Abdul Kalam



2020/1/18



18th Jan 2020
School visits for
awareness about
Clean and Green
Environment



25th Jan 2020
Household
survey



30th Jan 2020
Organic
farming
program



26TH JANUARY 2020

REPUBLIC DAY GRAMA SABHA

- UBA-NITRKL team organized a Grama sabha meeting in Jamshera village with 50 Panchayat members to discuss the problems faced by the villagers.
- Benefits of vermicomposting was explained by UBA student volunteers.
- Vermicompost kits were prepared & distributed to the villagers.





ACTIVITIES AT GLANCE, FEB'20

- 2nd regional orientation workshop was organized on 13th February, 2020 with representatives from 23 participating institutes of Odisha by UBA-NITRKL team under the mentorship of Dr. S. N. Naik (UBA Coordinator, National Coordinating Institute, IIT Delhi).
- Live demonstration was provided on setting up vermicompost units and leaflets with detailed procedure written in Odia was distributed to the farmers in Jhirpani village.
- Initiatives to bring 8 technical institutions in Rourkela under the UBA 2.0 program were made.
- UBA NITRKL team discussed the advantages of organic farming and formulated a group with farmers from the adopted villages, training them to follow the same as sustainable agricultural strategy.
- Awareness camps for health and hygienic practices for women and children was organized by the UBA team.

TRANSITION TOWARDS SUSTAINABLE AGRICULTURE

Vermicomposting

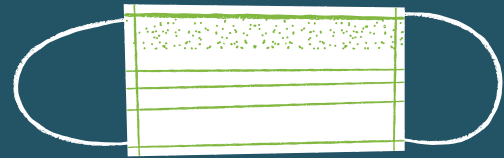


Organic Farming



FIGHT ON COVID 19 PANDEMIC

From April 15th 2020



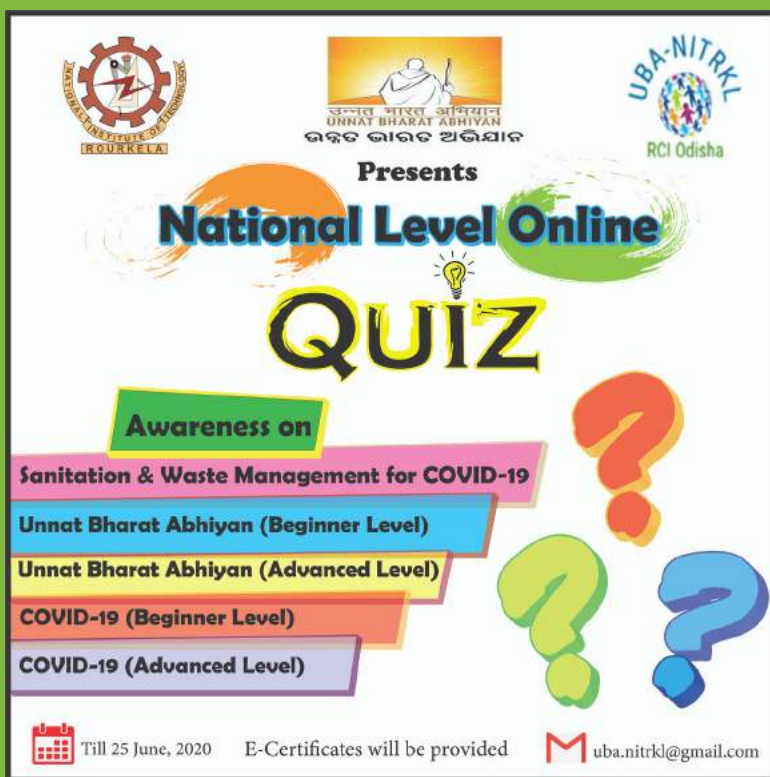
TALE OF MASKS AND SANITIZERS

With the wake of corona virus outbreak, government has made masks and sanitizers as essential commodity, leading to increase in prices of the products. The UBA team at NIT Rourkela organized a virtual meeting in the month of April to discuss the agenda and plan of action for making these commodities easily accessible to the general public in the rural areas with simultaneous generation of income opportunities. A women self-help group named "JAGRUTI" in Jhirpani village were contacted, shown the samples and were further trained to prepare masks and sanitizers based on the guidelines issued by the government of India. Masks and sanitizers prepared were distributed along with the leaflets consisting of the precautionary safety measures to be followed for avoiding the spread of Covid-19 virus in each households of the adopted villages under NIT Rourkela.



AWARENESS QUIZ PROGRAM

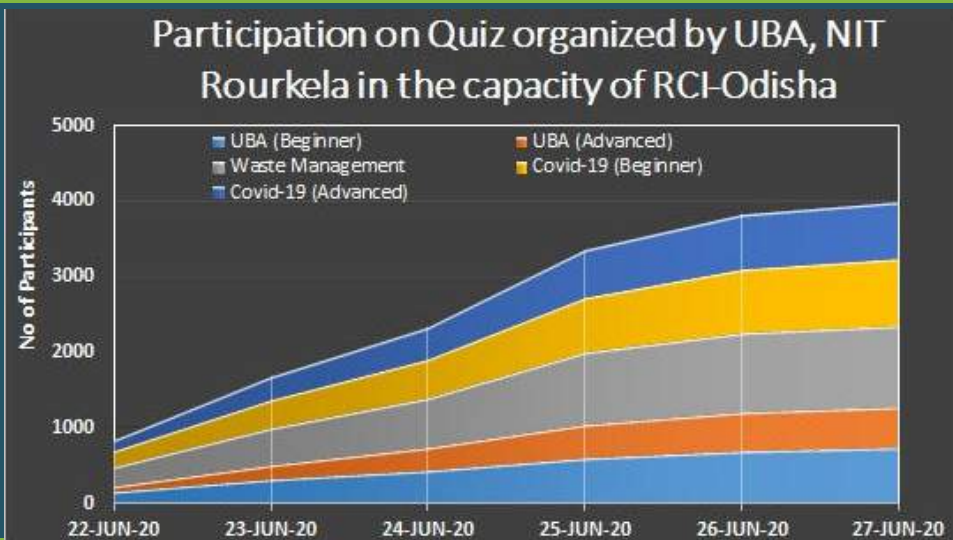
First ever quiz based awareness program conducted under UBA



5
Themes

4000+
Participants

20+
States



PRESENT SCENERIO OF COVID-19 AND EXPECTED MEASURES

30TH JUNE 2020

Webinar on
Present Scenario of COVID-19 and Expected Measures

Chief Guest
Prof. Virendra Kumar Vijay
National Coordinator, UBA
IREDA Chair Professor, CRDT, IIT Delhi

Situational Analysis of COVID-19
Dr. Amarendra Mahapatra
Scientist F, Senior Deputy Director,
ICMR RMRC Bhubaneswar

Prediction of COVID-19 pandemic in India
Prof. Siba Sankar Mahapatra
Professor, Dept. of Mechanical Engg.,
NIT Rourkela

Rural Sanitation and Hygienic Practices
Prof. Mahabir Panda
Professor, Dept. of Civil Engg.,
NIT Rourkela

Why and How's of COVID-19 Testing
Prof. Bibekanand Mallick
Associate Professor, Dept. of Life Science,
NIT Rourkela

Patron
Prof. Animesh Biswas
Director
NIT Rourkela

UBA TEAM

Prof. Mahabir Panda
Chairman
RCI Odisha

Prof. Raj Kishore Patel
Nodal Coordinator
RCI Odisha

Prof. P. Balasubramanian
Convener
RCI Odisha

30th June 2020
10.15am- 01.00pm

Registration Link:
<https://forms.gle/pYefzYZ4MkDaXr7t5>
E-Certificates will be provided

uba.nitrkl@gmail.com

1000+
views

32
PIs'

- Prof. V.K. Vijay (Co-ordinator of UBA, National Coordinating Institute (NCI) IIT Delhi) discussed the role of UBA during Covid-19 pandemic.
- Dr. Amarendra Mahapatra (Deputy Director, ICMR-RMRC , Bhubaneswar) highlighted the misconception related to the spread of COVID-19 virus.
- UBA team discussed the basics of transmission and detection of COVID-19 virus, sensitizing people to follow healthy lifestyle and hygienic sanitary practices during the pandemic period.

CHAOS, CURIOSITY & COVID-19 : A BIOTECHNOLOGIST'S PERSPECTIVE

SCIENTIFIC TECH SPEECH BY NITR PG STUDENTS ON COVID

- Webinars included a series of presentations on the fate of Corona virus, associated socio-economic impacts and preventive measures to be followed.
- Live interactive chats, question answer sessions, panel discussions with participants were carried in the presence of Dr. B. P. Nayak (MBBS, PhD, Asst. Prof., NIT RKL) and Dr. S. S. Ray (MBBS, PhD, Asst. Prof., NIT RKL).



NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA
DEPARTMENT OF BIOTECHNOLOGY AND MEDICAL ENGINEERING
IN ASSOCIATION WITH UBA AND GENESYS CLUB

PRESENTS A WEBINAR ON

CHAOS, CURIOSITY & COVID-19: A BIOTECHNOLOGIST'S PERSPECTIVE



25th JULY 2020, SATURDAY
10AM To 1PM

Discussion Topics

Overview and Fate of Coronavirus

- Rahul S and Lopamudra Chandra

Transmission and Diagnosis of Coronavirus

- Anushri U, Srishti Chakraborty and Nishant kumar

Drugs and Vaccines for COVID-19 : An update

- Laavanya D and Kavita Kundal

Socio-economic Impact of COVID-19 Pandemic

- Pradip Sarkar

ON PANEL MEMBERS

Prof. Bibhukalyan Prasad Nayak, MBBS, PhD
Prof. Sirsendu Sekhar Ray, MBBS, PhD

PATRON
Prof. Animesh Biswas, Director
NIT Rourkela

UBA TEAM

Prof. Mahabir Panda, Regional Chairman
Prof. Raj Kishore Patel, Nodal Co-ordinator
Prof. P. Balasubramanian, Convener
Prof. J. Sivaraman, Co-convener

CHAIRMAN
Prof. A. Thirugnanam, HOD
BM Dept., NIT Rourkela

STUDENT CONVENERS

Nageshwari K . Srishti Chakraborty . Riya Titus



Open for All

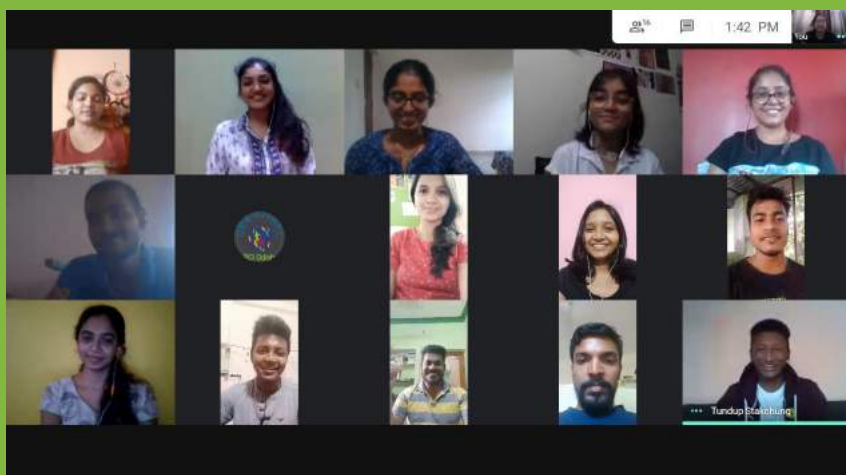
E-certificate will be provided

<https://forms.gle/6vwwk1zwHxZYWJZx1A>

Questions?

Email us at uba.nitrkl@gmail.com

FOR FREE REGISTRATION



3200+

Views on Youtube

AWARENESS ON COVID'19

AUGUST 2020



In lieu of Covid-19 pandemic, banners and pamphlets with instructions on safety measures to be followed written in Odia were explained and distributed in the adopted villages.

SENSITIZATION PROGRAM ON NATIONAL EDUCATION POLICY

26th September 2020



200+

Participants



UNNAT BHARAT ABHIYAN
NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA
presents
*Sensitisation Program on
National Education Policy 2020*
Date : 26-09-2020 Time : 11 am - 1 pm
Google meet : <https://meet.google.com/spb-ndji-dtp>
UBA Team, RCI Odisha

	Prof. Animesh Biswas Patron, Director NIT Rourkela		Prof. Mahabir Panda Chairman RCI Odisha
	Prof. Raj Kishore Patel Nodal Coordinator RCI Odisha		Prof. P. Balasubramanian Convener RCI Odisha

The program highlighted the crucial changes introduced in the curriculum, courses and medium of instruction in the new education system.

The webinar was a huge success with 40 participating institutes and got more than 1000 views in Youtube.

WEBINAR ON
**CRASH COURSE ON CLIMATE
 CHANGE AND ITS CONSEQUENCES**
 OCTOBER 10TH 2020


A Part of Climate Change Reality Project

DEPARTMENT OF BIOTECHNOLOGY AND MEDICAL ENGINEERING
 NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA
 IN ASSOCIATION WITH UBA AND GENESYS

Presents

Crash Course on Climate Change & its Consequences

Speaker

 **Prof. P. Balasubramanian**
 Assistant Professor
 BM Dept, NITR

Chairman
 Prof. A. Thirugnanam
 Head of the Department
 BM Dept, NITR

Chief Patron
 Prof. Animesh Biswas
 Director, NITR

UBA Team
 Prof. Mahabir Panda, Regional Chairman
 Prof. Rajkishore Patel, Nodal Coordinator
 Prof. P. Balasubramanian, Convener

Student Conveners
 Nageshwari K
 Riya Titus

October 10 10.00 AM - 12.00 PM

844 views
 on Youtube

400+
 Participants

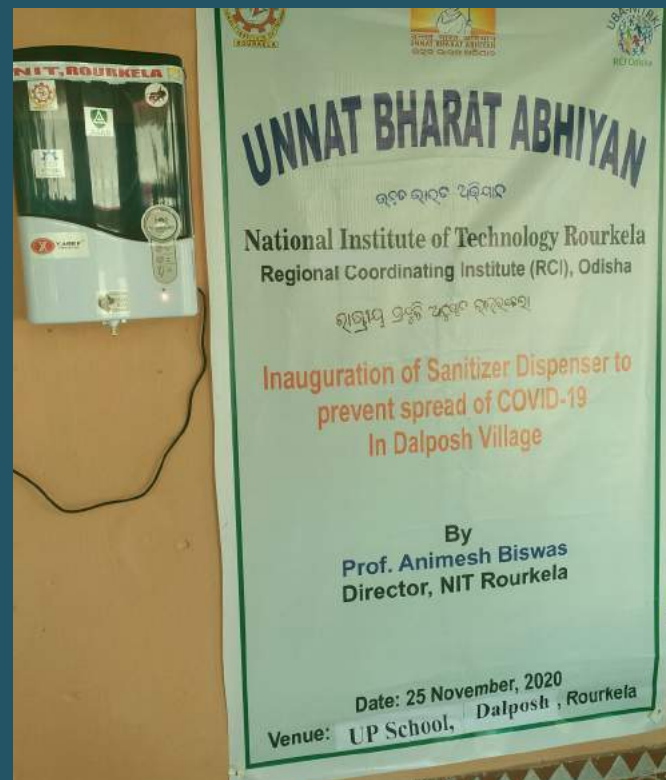
Panel Discussion on the topics

- Challenges concerning climate change
- Threats related to Covid 19 pandemic
- Racial injustice and opportunities for transformational and sustainable change

COVID WORK

INSTALLATION OF SANITIZER DISPENSER

25TH NOVEMBER 2020



Keeping in mind the risks of spread of Covid-19 infections, the UBA team of NIT Rourkela installed a contactless sanitizer dispenser as a part of the precautionary measure in an upper primary (UP) government school in Dalposh on 25th November, 2020. The automated sanitizer dispenser is indigenously designed and fabricated by Yarev Technologies Pvt. Ltd., a start-up company incubated at Foundation for Technology and Business Incubation (FTBI), NIT Rourkela campus.

The UBA-NITRKL team also interacted with the school teachers explaining the importance of staying sanitized and provided other precautionary tips like social distancing, the use of masks to keep the students safe amid the Covid-19 pandemic.



small acts,
when multiplied by
millions of people,
can transform the
world.
Howard Zinn



“ The future of rural India is intertwined with its ability to integrate science and technology. ”

Dr. S Radhakrishnan

NIT ROURKELA TO TRANSFORM THE FATE OF VILLAGES UNDER UNNAT BHARAT ABHIYAN

Waves of Change

Unnat Bharat Abhiyan (UBA) is an undertaking of the Ministry of Human Resource Development, GoI. Under this flagship programme, higher educational institutions (HEI) should adopt five villages and rural development works should be carried out to transform them as model villages. Started in 2014, its second phase UBA 2.0 commenced in 2018 with 40 regional coordinators. Around 800 HEIs have adopted 4000 villages so far to revolutionise the rural development sector.

As regional coordinator of the project in Odisha, NIT Rourkela is coordinating, mentoring and motivating the 50 participating institutions across the state. As a participating institute (PI), NITR has



SHARING KNOWLEDGE WITH THE VILLAGERS

are being properly implemented in those adopted villages. Professor Raj Kishore Patel, regional coordinator (Odisha) of UBA states, "UBA aims to engage both faculties and students to work on societal problems so that they can contribute to the development of the rural areas. NITR has already been proactively involved in various developmental activities in and around the surrounding villages. NITR will act as a nodal centre for promoting and facilitating UBA network in this region."

Kansar is conducting welfare activities over there. While Professor Mahabir Panda, regional chairman of UBA comments, "Development of rural areas is necessary and the role of higher education institutions is significant. UBA cell has been formed to address issues related to education, water, health and sanitation, energy and environment in the adopted villages."

Welfare Activity
NITR has undertaken many works like health camp in

the adopted villages, plantation drives at Janshera and Daiposh villages, progress on household socio-economic survey at their adopted villages, awareness programmes on water, sanitation and hygienic practices at Kansar village, pucca surroundings of an existing tube well along with drains in Munda Tola (Kansar Village), Raju Munda, of Kansar village, says, "NITR is doing so much in our village." This year, NITR plans to follow up the old programmes along with spreading aware-

Future Development Works
GoI observes the National Deworming Day (NDD) bi-annually on February 10 and August 10 in all states. NITR held deworming camps at the adopted villages. Apart from this, Converging Grama Sabha Meeting on the eve of Independence Day to broaden the basis for an enlightened opinion and responsible conduct by individuals, NGOs, and communi-

“

Focus areas are sanitation, waste management, water resource management, rural energy system

villages will also be held. Tree plantation drive at the adopted villages and introduction of modern agricultural techniques are also a part of this.

Imparting ICT
Information and Communication Technology (ICT) skills are also to be imparted to the stakeholders of the panchayat office in September. Under UBA NITR will conduct Skill India programmes for SHGs, implement Ujjwala Yojana and Beti bachao Beti padhao abhiyan in the rural areas.

> Hishree Singh Rathaur



14.02.2020

ଉତ୍କଳ ଭାରତ ଅଭିଯାନ କର୍ମଶାଳାରେ ସୋଆ ଏନ୍ଏସଏସ୍

ରାଉରକେଲା ଏନ୍ଆଇଟିରେ ରାଜ୍ୟସ୍ତରୀୟ ଦ୍ୱିତୀୟ ଓରିଏଣ୍ଟେସନ୍ କର୍ମଶାଳା



ଭୁବନେଶ୍ୱର, ୧୩୮(ଦ୍ୱିତୀୟ): ଗୁରୁଗର ରାଉରକେଲାସ୍ଥିତ ନ୍ୟାସନଲ୍ ଇନଷ୍ଟିଚ୍ୟୁଟ୍ ଅଫ୍ ଟେକ୍ନୋଲୋଜି(ଏନ୍ଆଇଟି)ରେ ରାଜ୍ୟସ୍ତରୀୟ ଉତ୍କଳ ଭାରତ ଅଭିଯାନ ଦ୍ୱିତୀୟ ଓରିଏଣ୍ଟେସନ୍ କର୍ମଶାଳା ଅନୁଷ୍ଠିତ ହୋଇଅଛି । ଇଞ୍ଜିଆର୍ ଇନଷ୍ଟିଚ୍ୟୁଟ୍ ଅଫ୍ ଟେକ୍ନୋଲୋଜି(ଆଇଆଇଟି) ଦ୍ୱିତୀୟ ପ୍ରଫେସର ଏସ୍ ଏନ୍ ନକ୍ଷତ୍ର ମୁଖ୍ୟଅତିଥି ଭାବେ ଯୋଗ ଦେଇ ଉତ୍କଳ ଭାରତର ଅଭିଯାନ ଉଦ୍ଦେଶ୍ୟ ବ୍ୟବହରେ କହିଥିଲେ । ରାଉରକେଲା ଏନ୍ଆଇଟିର ନେତାମ୍ବୁ ସଂଯୋଜକ ପ୍ରଫେସର ଆର୍ କେ ପଟ୍ଟେଲ୍ ପ୍ରତିବଦ୍ଧ ସମ୍ପର୍କିତ ପୋର୍ଟାଲ୍ ଓ ଆର୍ କିଷ୍ଟୟରେ କହିଥିଲେ । ଓଡ଼ିଶା ସ୍ତରୀୟ ସଭାପତି ପ୍ରଫେସର ମହାଶୀର ପଣ୍ଡାଙ୍କ ନେତୃତ୍ୱରେ

ସମସ୍ତେ ଝିରପାଣି ଗାଁ ପରିଦର୍ଶନରେ ଯାଇଥିଲେ । ଏନ୍ଆଇଟି ନିର୍ଦ୍ଦେଶକ ପ୍ରଫେସର ଅନିମେଶ୍ ବିଶ୍ୱାସ ମୁଖ୍ୟ ବକ୍ତା ଭାବେ ଯୋଗ ଦେଇଥିଲେ । ଓଡ଼ିଶାର ବିଭିନ୍ନ ଅନୁଷ୍ଠାନକୁ ମାଡ଼କରି ଭାଗ ନେଇଥିଲେ । ସୋଆ ଅତିରିକ୍ତ ଜଣସଂଗ୍ରହ ସଂଯୋଜକ ଡ. କମଳ ଭୋଗତ ମହାର ଉତ୍କଳ ଭାରତ ଅଭିଯାନ ଅନ୍ତର୍ଗତ ସୋଆ ଏନ୍ଏସଏସ୍ ପୋଷ୍ୟ ଗ୍ରାମ ଭାବେ ଭଗବାନପୁର, କୁଟି ମହଲ, କାମୁଗିରି, ଛତାକର ଓ ନୂଆଗାଁକୁ ନିଆଯାଇଛି । ଆଗାମୀ ଦିନରେ ସୋଆ ଏନ୍ଏସଏସ୍ ପକ୍ଷରୁ ସମ୍ଭାଷଣ ବ୍ୟାପୀ ସତର କ୍ୟାମ୍ପ ଆୟୋଜନ ମାଧ୍ୟମରେ ଏହି ଗାଁଗୁଡ଼ିକରେ ବ୍ୟାପକ ସର୍ବେ କରାଯିବ ବୋଲି ଡ. ମହାର କହିଛନ୍ତି ।

FEATURED ARTICLES
NEWSPAPER



PUBLISHED RECORDS ON UBA-NITRKL ACTIVITIES

PUBLISHED ARTICLES:

<https://mondaymorning.nitrkl.ac.in/article/2020/02/04/2667-making-india-prosper-unnatbharat-abhiyan/>



<https://mondaymorning.nitrkl.ac.in/article/2020/09/14/2784-chaos-curiosity-and-covid-19-a--biotechnologists-perspective/>



<https://mondaymorning.nitrkl.ac.in/article/2020/10/19/2831-safeguarding-earth-crashcourse-on-climate-change-and-itsconsequences/>



RESOURCES ON AIR

Crash Course on Climate Change & its Consequence

Link: <https://youtu.be/ZofaJsrqbCw>



One Day National webinar on “Chaos, Curiosity & COVID-19 : A Biotechnologist’s Perspective”

Link: <https://youtu.be/Ff6pOvvxY4E>



Webinar on Present scenario of COVID-19 and expected measures(UBA-NITRKL)

Link: <https://youtu.be/u2L-D6I2JH8>



a year's overview

THANK YOU



Unnat Bharat Abhiyan Team,
Regional Coordinating Institute (RCI) Odisha,
National Institute of Technology Rourkela,
Odisha, India - 769 008

Mail: uba@nitrkl.ac.in; uba.nitrkl@gmail.com
Web: www.nitrkl.ac.in/uba
Phone: 0661 246 2952
WhatsApp: 88953 40071



Unnat Bharat Abhiyan Team,
National Coordinating Institute (NCI),
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