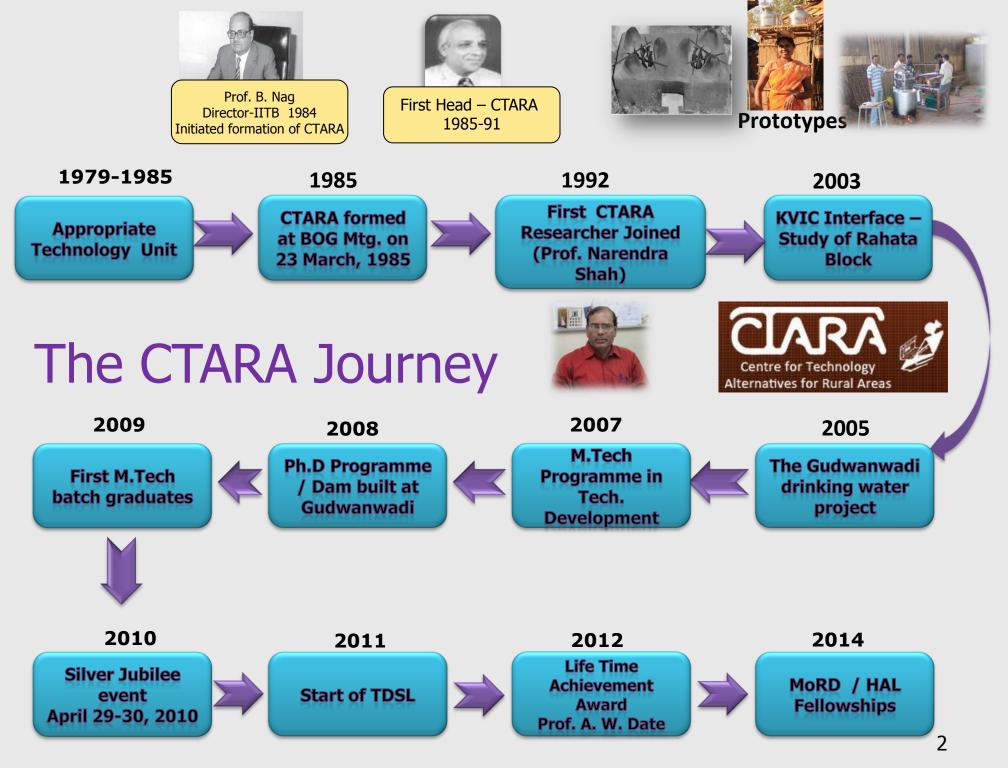
Centre for Technology Alternatives for Rural Areas (CTARA)



Presentation To IITB Board of Governors 17th April 2014







CTARA Status

Faculty	
Core	5
Assoc. (FT)	4
Adjunct	4

Students / Staff	
M.Tech	33
Ph.D.	22
Staff	4
Project Staff	7

Budget 15 lakhs (2013-14) Space 2000 ft²





Semester 1

Development Theory & Policy: Indian Context

Soil, Land Use, GIS and Agriculture

Water Resources

Appropriate Technology

Ecology and Environment

Communication and Presentation Skills

Seminar

Semester 2

Social Science Res Methods & Systems Dynamics

Public Policy and Governance in Tech. & Dev.

Energy Sources and their utilization

CTARA Elective I

CTARA Elective II

Institute Elective

Semester 3

Project Management and Project Analysis

CTARA Elective III

M.Tech Project

Field study M.Tech Project

CTARA Electives

Technology in Practice

Development in Practice

Rural Environmental Services Planning & Design

Development Protocols

Biofuels: Technology & Policy Perspective

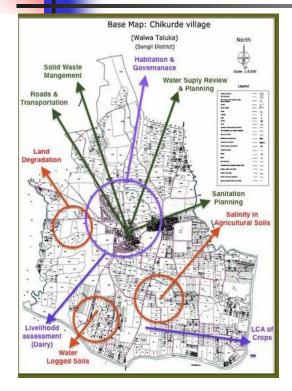
Agro-based Industries: Design and Case Studies

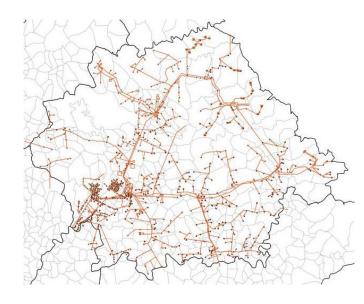
Rural Electrification and the Power Sector in India

Rural Enterprises



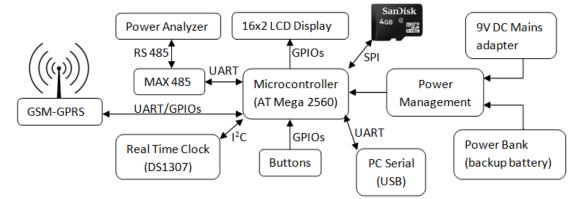
CTARA Research





Water Energy Food and Agriculture Industry Planning and Development











Innovation – reduced burden



Sold by local blacksmiths



Improved Herbal oil extraction process



Twisted tape swirlers



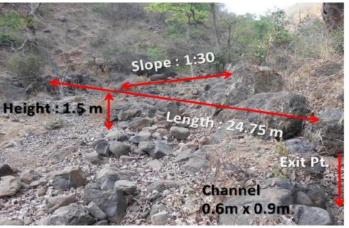


CTARA Field impact

- 10 week field stay
- Field visit in each course
- MoU- Parbhani, Shahapur,
- Thane, Manchar
- KVIC, SME
- Engg Colleges- Karjat, Islampur



Assessing drinking water access Chikurde, Maharashtra



Diversion Irrigation scheme in Patan, Pune



Optimizing Hydram performance, Himachal Pradesh 7



CTARA Policy Impact

- Water policy reforms in India and governance
- Ganga River Basin Environment Management Plan
- Decentralised technological and institutional solutions for urban water and sanitation services
- Scope of Bamboo Integration in Housing
- Localization of Solar Energy Through Local Assembly Sale and Usage of 1 Million Solar Study Lamps
- Panchayat planning for Solar Integration in Kerala
- Climate Change Policy Process in India
- Scope for scaling up Systems for Rice Intensification



CTARA Review Process



Girish Sohani, CEO, BAIF IIT B alumnus



Prof. Rajendra Prasad, CRDT, IIT Delhi

February 5-6, 2014 Compilation of CTARA statistics, faculty research Presentations – CTARA faculty Interactions – Faculty **IDPC** members Interaction with students Interaction with Institute management Individual scoring and reports



Review Findings- Strengths/ Weaknesses

Strengths

- Field Orientation
- Faculty Quality and Potential
- Curriculum useful, relevant
- Inter-disciplinary
- TDSL

Weaknesses

- Poor Infrastructure
- Technology
 Development
- Publication
- National/ International Exposure



- Stronger Infrastructure, Institute Support
- Enhance Technology component
- Internal/ External outreach
- Enhance Publications/ Dissemination
- Enhance M.Tech, Specialisations Thematic
- Advisory Committee
- Integration with RuTAG
- Entrepreneurship/incubation



CTARA Action Plan

- Internal Outreach (Invitation, IFM)
- External Outreach- Poster, letters, Video interaction
- Enhance publications, open domain reports-CTARA Report Series
- CTARA 2020
- New course- Technology and Design Laboratory
- Enhance course offerings Minor, DD, Enhance M.Tech (MORD, HAL Fellowships)
- Strengthen existing areas- Water, Energy, Food and Agriculture
- Catalyse new areas- Healthcare , Industry, Infrastructure
- Continuing Education Programmes, TEQIP



Support Requested from IITB

- Resources Minimum space short term additional 3000 ft², Current space subcritical constraint for growth
- Enhanced Budget
- Institute Support for catalyzing greater faculty involvement – rural challenges
- Support CTARA to catalyse IITB research for impact in rural areas





The future of India lies in its villages M.K.Gandhi

Thank You

head.ctara@iitb.ac.in