



Bamboo Research & Training Centre



# Green Gold



## In This Edition

From Students to Professionals: Where Are They Now?

Bamboo Sakhi Training

Unlocking Bamboo Potential in Maharashtra

National Bamboo Mission: India's Green Gold Revolution

Published in April

Quarterly Insights

Dec to march 2025 | ₹ 30

Email :- [brtcchichpalli@gmail.com](mailto:brtcchichpalli@gmail.com)

Website :- <https://www.brtc.org.in/>



**M. S. Reddy**  
Director,  
Forest Administration, and  
Development Chandrapur

It gives me great pleasure to acknowledge the exceptional work being carried out at the Bamboo Research and Training Centre (BRTC), Chichpalli. Over the years, BRTC has emerged as a hub of innovation, training, and empowerment in the bamboo sector, touching lives across various communities and regions.

The Centre's commitment to capacity building, skill enhancement, and livelihood generation through bamboo has created a lasting impact. From artisan development and product innovation to sustainable construction and enterprise promotion, BRTC continues to lead by example. The dedication of the faculty, trainers, and support staff is evident in the quality of training and the confidence instilled in every trainee.

I deeply appreciate the Centre's inclusive approach—especially its efforts to empower rural and tribal communities, women's groups, and young professionals. These initiatives not only create economic opportunities but also foster environmental responsibility and self-reliance.

My heartfelt compliments to the entire BRTC team. I look forward to seeing the Centre scale greater heights and inspire many more through its work in sustainable development and bamboo innovation.



**Ashok Khadse**  
Director, BRTC

It gives me immense pride to share the progress and impact of the Bamboo Research and Training Centre (BRTC) during this quarter. At BRTC, we remain committed to advancing the bamboo sector through innovation, skill development, and sustainable practices that uplift communities across Maharashtra and beyond.

The months from December to March mark a time of reflection and renewed purpose. Looking back at the remarkable achievements of September 2024, including Bamboo Day celebrations, the Farmers' Training Program, and the Alumni Meet, we are reminded of the transformative power of bamboo. These initiatives not only showcased bamboo's role as an eco-friendly alternative but also reinforced its potential to bring about socio-economic change.

Our mission continues to revolve around empowering artisans, youth, and rural communities through practical training and enterprise development. I extend my sincere appreciation to our dedicated team, valued partners, and all participants whose collective effort has made these milestones possible. As we move forward, let us carry this momentum into the future. Together, we will continue to nurture bamboo as a catalyst for innovation, livelihoods, and environmental sustainability.

# CONTENT INDEX

**01** FAREWELL TO DBT  
FINAL-YEAR STUDENTS

**02** FROM STUDENTS TO  
PROFESSIONALS:  
WHERE ARE THEY NOW?

**03** FOLDABLE BAMBOO  
FURNITURE:  
INNOVATION BY  
FURNITURE TRAINING  
STUDENTS

**04** BAMBOO SAKHI  
TRAINING

**05** A 15- DAY BAMBOO  
BASKETRY TRAINING  
PROGRAM TO EMPOWER  
WOMEN TOWARDS SELF-  
RELIANCE

**06** EMPOWERING BURAD  
ARTISANS: 3-DAY  
INNOVATIVE TRAINING  
PROGRAM BY BRTC

**08** A UTILIZATION OF  
BAMBOO FOR  
LIVELIHOOD UNDER  
COMMUNITY FOREST  
RIGHTS AND THE  
RESPONSIBILITIES OF  
GRAM PANCHAYATS IN  
CFR AREAS

**09** EXPLORING  
SUSTAINABLE DESIGN:  
361° BEAT SCHOOL OF  
DESIGN STUDENTS  
UNDERGO BAMBOO  
CONSTRUCTION  
TRAINING AT BRTC

**10** HANDS-ON GREEN  
CONSTRUCTION: BRTC'S  
BAMBOO TRAINING  
BUILDS SKILLS AND  
SHELTER

**11** UNLOCKING BAMBOO  
POTENTIAL IN  
MAHARASHTRA

---

S  
F I

**13** NEWS & ARTICLES

**14** NATIONAL BAMBOO  
MISSION: INDIA'S GREEN  
GOLD REVOLUTION

**15** VISITORS @ BRTC

**16** ARTISANS CORNER

**17** EMPLOYE'S CORNER

# Farewell to DBT Final-Year Students

- On 27th December, BRTC bid a heartfelt farewell to our 13 DBT final-year students. The event was filled with joy, memories, and motivation as the students celebrated the culmination of their journey at BRTC.
- They shared their experiences and personal growth, reflecting on the valuable lessons and friendships formed during their time here. Director Mr. A. Khadse and RFO Mr. Akash Mallelwar inspired the students with guidance on career paths and opportunities in the bamboo industry.



- The presence of G.C. Meshram Sir, Sumedh Sir, and dedicated faculty members added warmth to the occasion, assuring the students of lifelong support and encouragement as they step into their future.
- We wish our students a bright and successful future ahead!
- As another academic year comes to a close, BRTC proudly celebrated the farewell of its DBT Final-Year Students — a moment to reflect, rejoice, and look forward to new beginnings.



## From Students to Professionals: Where Are They Now?

As part of the passing-out batch, many final-year students have taken their first steps into the professional world, securing internships and placements across Maharashtra.

Two such students have shared their journey:

Vishal Paingne is currently interning in Jalgaon under Devendra Nursery. During his internship, Vishal is actively exploring BRTC's propagation methods and bamboo management techniques, applying his learning in real-world conditions and gaining field experience.

Dutta Kachre is working in Chhatrapati Sambhajnagar with a bamboo construction company as part of a paid internship. His work is focused on bamboo structural applications, and he acknowledges the foundational support received from BRTC in mastering bamboo construction techniques.

These placements stand as testimony to BRTC's commitment to developing well-rounded, skilled professionals in the bamboo sector, contributing meaningfully to the industry and sustainable development.



# Foldable Bamboo Furniture: Innovation by Furniture Training Students

A one-month intensive furniture training program was successfully conducted at BRTC, Chichpalli, concluding on 12th December 2024 aimed to equip participants with practical knowledge and skills in bamboo-based furniture making. During the course, 13 students actively participated and crafted a range of innovative foldable bamboo furniture. These designs reflected a blend of eco-friendly materials and modern aesthetics, showcasing the versatility of bamboo in contemporary furniture design. As part of the training curriculum, students created bamboo racks, jhulas (swings), and folding tables, demonstrating crea-

tivity, craftsmanship, and sustainable thinking. The training also emphasized hands-on learning, precision work, and eco-conscious design approaches. The program was conducted under the expert guidance of Trainer artist Raju Hazare and the Designer Kishor Gaikwad who provided consistent support and mentoring throughout. This initiative highlighted BRTC's ongoing commitment to promoting skill development, sustainable practices, and bamboo-based innovation, empowering trainees for a greener, self-reliant future. The program concluded with a certificate distribution ceremony, recognizing the hard work and



dedication of all 13 participants. Some of them, already working in the construction sector, shared that the training had significantly enhanced their skills and would be highly beneficial for their careers.



# Bamboo Sakhi Training

13th January 2025

- From 13th to 20th January, BRTC conducted a 7-day Bamboo Sakhi Training for 12 local women artisans. The training, conducted under the guidance of craft design engineer Antik Mallick, RFO Akash Mallelwar, Supervisor Yogita Sathavane focused on enhancing skills in traditional bamboo basketry.
- These Bamboo Sakhis, after completing their training, will now train to SHGs womens of nearby villages—promoting bamboo craftsmanship, supporting livelihoods, and fostering self-reliance. This initiative highlights BRTC's dedication to empowering women and transforming rural communities through bamboo-based skill development.



“A trained woman artisan from BRTC who empowers others through bamboo craft. She helps for Encouraging to all woman's and their self-reliance as well as leadership at the grassroots level.”

This project is a shining example of how structured learning can turn traditional skills into a movement for rural transformation.

These 12 Bamboo Sakhis will now train 150 women from the mining-affected areas of Chandrapur district, empowering them to become self-reliant."



## A 15- Day Bamboo Basketry Training Program To Empower Women Towards Self-Reliance

To promote rural livelihood and skill development, a 15-day sliver-based basketry training program was organized by the Bamboo Research and Training Centre (BRTC), Chichpalli, aimed at empowering women from the mining-affected areas of Chandrapur district. The training targeted 150-160 womens from the villages of Nandgaon Poda, Lohara, Nimbala, Ghugus, Varvat, Chorgaon, and Moharli, helping them gain skills in bamboo craftsmanship and self-reliance.

This training was conducted through the Bamboo Sakhis of BRTC. The objective was to enhance the traditional craftsmanship of women from mining-affected areas and introduce them to modern design techniques. In particular, they were taught how to create innovative products using zig and mold techniques.

This sliver-based program focused on teaching mat weaving techniques in various shapes, along with the art of crafting decorative bamboo lamps using slivers

The training emphasized not only technical skills but also aesthetic design, high-quality finishing, and product utility. Participants learned how to blend traditional techniques with modern innovations to produce attractive and market-ready bamboo items.

This initiative successfully fostered creativity, self-confidence, and entrepreneurial spirit among the women, contributing to inclusive development and the growth of sustainable bamboo-based enterprises.

Through such efforts, BRTC continues to empower rural communities, transforming traditional artisans into skilled entrepreneurs—ensuring that bamboo remains a key instrument for economic and social upliftment in Maharashtra.



# Empowering Burad Artisans: 3-Day Innovative Training Program by BRTC

The Bamboo Research and Training Centre (BRTC), Chichpalli, has taken a significant step toward uplifting and modernizing the Burad community's traditional craftsmanship. A 3-day intensive training program was successfully conducted in five phases, benefitting a total of 150 artisans from Chandrapur, Bhadravati, Ballarshah, and Sindewahi.

Traditionally skilled in crafting mats (chatai) and toplis, the Burad community had limited exposure to innovation in bamboo craft. Recognizing this, Mr. M.S. Reddy, Additional Principal Chief Conservator of Forests (Research, Education and training), Maharashtra, in collaboration with Mr. Ashok Khadse, Director, BRTC, envisioned a transformative training initiative encouraging the community to "work smart" and adopt modern bamboo techniques to create value-added products.

Under the guidance of Session Coordinators Mr. Kishor Gayakwad and Mr. Ankit Mallick, and with the support of expert trainers Ms. Sandhya Borkar, Mr. Santosh Bhajit, and Mr. Govinda Atram, artisans were trained in Zig and Mold technology—a technique that enhances speed and finishing in bamboo product-making.



During the training, artisans were also introduced to tool kits, which enabled hands-on learning and skill development. Importantly, the entire training was provided free of cost, demonstrating BRTC's commitment to inclusive development and livelihood generation for bamboo artisan communities.

This initiative stands as a landmark effort by BRTC to preserve traditional knowledge while introducing innovation—helping the Burad community evolve from heritage artisans into smart bamboo entrepreneurs.

The Bamboo Research and Training Centre (BRTC), Chichpalli, organized a Special Tool Kit Distribution Programme to empower Burad artisans by integrating modern tools with their traditional bamboo craftsmanship. The event was graced by Hon. **Mr. Kishor Bhau Jorgewar** (MLA, Chandrapur Assembly) as the Chief Guest, and presided over by Hon. **Mr. M. S. Reddy** (APCCF [R.E.T], Director, Forest Academy).

This initiative was a part of a larger effort to enhance the livelihood opportunities of bamboo artisans. During his address, Mr. Jorgewar appreciated the work of the artisans and emphasized the importance of preserving indigenous skills. He also announced the launch of the Skill Excellence Awards in memory of his mother, to be awarded from next year, aimed at recognizing exceptional work by bamboo artisans.



## A Utilization of Bamboo for Livelihood under Community Forest Rights and the Responsibilities of Gram Panchayats in CFR Areas

BRTC, as part of its ongoing efforts to promote community empowerment and sustainable forest management, successfully implemented a comprehensive training program for CFR members in Utilization of Bamboo for Livelihood under Community Forest Rights and the Responsibilities of Gram Panchayats in CFR Areas. The program involved active participation from 138 members representing Samitis from seven talukas in the Chandrapur and Gadchiroli districts of Maharashtra—namely Nagbhid, Bramhapuri, Dhanora, Gadchiroli, Korpana, Rajura, Mul, Chandrapur.

The training was conducted in five phases, each designed to deliver practical knowledge, field-based demonstrations, and interactive sessions as well as focused on key areas Such as understanding Community Forest Rights under the FRA 2006, adopting sustainable bamboo harvesting techniques, Bamboo Plantation management techniques, sales regulation and depo management, strengthening the roles and responsibilities of community members in resource governance and protection etc. This training session held under the guidance experts such as Shri Umesh Verma (IFS) Dy. CF Forest Regulation Nagpur, Shri Sanjay Dahivale (Rtd.CF, Course Director Forest Academy), Shri S B Pandhare(Rtd. ACF), Shri G C Meshram (Rtd. RFO) Shri.Akash Mallelwar (RFO BRTC), who shared their valuable insights on scientific knowledge and management techniques which is significant role in enhancing the technical understanding of participants, ensuring the transfer of practical skills necessary for effective and sustainable resource utilization. Participants actively engaged in exercises and discussions that deepened their understanding of legal entitlements and sustainable forest practices. This training program which was conceived by Shri M S Reddy (APCCF RET) will be implemented in five more phases



## EXPLORING SUSTAINABLE DESIGN: 361° BEAT SCHOOL OF DESIGN STUDENTS UNDERGO BAMBOO CONSTRUCTION TRAINING AT BRTC

The Bamboo Research and Training Centre (BRTC), Chichpalli, recently hosted a dynamic bamboo construction training program for 40 students from RVS Architecture College, Chennai. This immersive experience was designed to provide upcoming architects and designers with hands-on exposure to bamboo as a sustainable and innovative construction material.

The training combined practical sessions with theoretical insights, focusing on the application of bamboo in modern eco-friendly structures. It was led by Ms. Akansha Bangar (Bamboo Architect), Ms. Pallavi Pamdi, (Master Artist) and Mr. Ajay Dombe (Master Artist), professionals known for their work in bamboo construction field. Under their expert mentorship, students explored construction techniques, structural forms, and material behavior, fostering a deeper understanding of bamboo's potential in contemporary design.

This initiative marked a successful collaboration between BRTC and leading academic institutions, further promoting environmental responsibility and sustainable design education among the new generation of architects.



# Hands-on Green Construction: BRTC's Bamboo Training Builds Skills and Shelter

To create technical manpower in bamboo construction sector BRTC recently organized a 15-day Bamboo Construction Training Program from 5th to 20th February at Chichpalli. A total of 13 participants took part in this immersive training.

The highlight of the program was the successful construction of a Bamboo Hut at Grampanchayat Chichpalli, which now stands as a symbol of eco-friendly innovation and student excellence. This structure showcases not only the strength and versatility of bamboo but also the skill and dedication of the trainees involved. While constructing the structure during this training, it was considered that it would also benefit the Gram Panchayat Chichpalli. The Hut built through the training has proved beneficial for the Gram Panchayat Chichpalli holding their Gram Sabha.

The training was led by expert professionals: Ms. Akansha Bangar (Bamboo Architect), Ms. Pallavi Pamdi, (Master Artist) and Mr. Ajay Dombe (Master Artist) Under their mentorship, participants were introduced to various aspects of bamboo construction including design, structural assembly, joinery techniques, and finishing. The hut was built using sustainable practices and natural materials, reinforcing the role of bamboo as a viable alternative in rural and green infrastructure.

Students expressed high satisfaction with the training, stating that the practical exposure significantly enhanced their confidence and skills in green building techniques.

This initiative reflects BRTC's ongoing commitment to fostering environmentally responsible architecture, skill-based education, and bamboo-driven innovation—preparing the next generation of eco-conscious builders and artisans.



# Unlocking Bamboo Potential in Maharashtra: A Roadmap for Sustainable Livelihoods, Green Industry, and Climate Resilience

--- M. SRINIVASA REDDY APCCF (RESEARCH, EDUCATION AND TRAINING)

Under the project Forest and Bamboo Integrated Economy for Resilience in Maharashtra (FIBRE), ADB's South Asia head Mrs. Sunai Kim, along with two other officials and officers from the MITRA, recently visited the BRTC. During this visit, a joint meeting was organized at Forest Academy, Chandrapur in the presence of Shri M. S. Reddy, APCCF (RET), Shri Ashok Khadse (Director BRTC), Smt. Jyoti Pawar (DFO, RET) Shri Sanjay Dahiwal (Course Director), and Shri Akash Mallewar (RFO). In this meeting, Shri M. S. Reddy presented a detailed report on the topic Unlocking Bamboo Potential in Maharashtra before the expert committee. The detailed account of this report is as follows.



Bamboo, often hailed as "Green Gold," holds immense promise for Maharashtra's future. Its cultivation offers a unique blend of economic, environmental, and social benefits, positioning it as a catalyst for sustainable development across the state. Economically, bamboo is a fast-growing cash crop that feeds diverse industries, including construction, furniture, handicrafts, and paper. This opens up new avenues for rural income generation and strengthens the grassroots economy. Environmentally, bamboo plays a vital role in combating climate change. Its remarkable carbon sequestration ability, combined with its contribution to soil health and land restoration, enhances ecosystem resilience. Socially, bamboo cultivation empowers rural and tribal communities by generating employment and reducing poverty and migration.

### Challenges on the Path to Prosperity

Despite its potential, bamboo development in Maharashtra faces persistent hurdles. A fragmented ecosystem, limited market access, weak supply chains, and institutional overlaps have restricted its full-scale adoption. Key institutions such as the Maharashtra Bamboo Promotion Foundation (MBPF), Maharashtra Bamboo Development Board (MBDB), Bamboo Research and Training Centre (BRTC), and various government departments have all been working toward bamboo promotion — yet, without a coordinated strategy, progress remains scattered.

**The solution is clear:** centralize bamboo development under the Forest Department, streamline efforts, and repurpose MBDB into a broader Maharashtra Agroforestry Development Board. This new board would not only focus on bamboo but also on other commercially valuable tree species like teak, sandalwood, and fruit trees — supporting diversified rural economies.

### A Strategic Action Plan

1. Strengthening the Supply Side :- Scientific GIS mapping of bamboo resources must guide expansion strategies. Establishing tissue culture labs for high-yield clones and certified nurseries for quality planting material will lay the foundation for a robust supply chain. Promoting industry-led plantations through CSR initiatives, ensuring fair price mechanisms, setting up processing units near cultivation areas, and offering capacity-building programs for farmers and SHGs are crucial steps. Additionally, private sector participation must be incentivized to scale operations.

2. Empowering Artisans and SHGs :- Revitalizing traditional bamboo craftsmanship is key. This requires skill training in modern designs, access to tools and Common Facility Centres (CFCs), and strong market linkages via e-commerce platforms. Focused efforts to enhance branding and packaging, promote women-centric initiatives, and facilitate waste utilization will maximize resource efficiency and improve livelihoods.

3. Boosting Demand and Industrial Growth :- Building strong linkages between growers and industries is essential. Maharashtra must promote bamboo-based industries in sectors like furniture, bioethanol, pulp and paper, and green construction. Setting up Bamboo Industrial Parks and Export Hubs, offering incentives such as Production-Linked Incentives (PLI) and tax breaks, and investing in R&D for engineered bamboo products will unlock new markets and opportunities. Creating stable pricing frameworks, developing e-marketplaces, and ensuring export readiness will drive the bamboo economy towards global competitiveness

### The Pivotal Role of the Forest Department

A dedicated Bamboo Development Cell with nodal officers will drive bamboo sector growth through GIS mapping, nursery development, artisan support, and policy leadership. The Forest Department will also enable industrial parks, B2B meets, value chain financing, and global outreach to build a resilient bamboo industry.

With Forest Department leadership and cross-sector collaboration, bamboo can drive sustainable livelihoods, green industries, and climate resilience in Maharashtra. Embracing this vision will position the state as a national model of inclusive, eco-friendly growth.

## 13

# National Bamboo Mission (NBM)



## National Bamboo Mission: India's Green Gold Revolution

The National Bamboo Mission (NBM), launched by the Ministry of Agriculture & Farmers Welfare, Government of India, is a transformative initiative aimed at boosting bamboo cultivation, enhancing rural livelihoods, and promoting sustainable development across the country.

### Key Goals of NBM:

- Expand bamboo plantations on non-forest land
- Strengthen bamboo-based industries and reduce imports
- Develop infrastructure for harvesting, processing & marketing
- Create livelihood opportunities for farmers and artisans
- Provide training and build entrepreneurship capacity

### Core Focus Areas:

- Nursery & Plantation: High-quality saplings, farmer subsidies
- Post-Harvest Management: Treatment, storage, mobile processing units
- Market Infrastructure: Support to FPOs, mandis, and trade platforms
- Skill Development: Training for artisans, youth & entrepreneurs
- MSME Support: Financial aid for processing units and product design

### Impact Highlights:

- Over 1.3 lakh hectares under bamboo cultivation
- Thousands of farmers and tribal artisans empowered
- Modern processing and treatment units set up
- Bamboo now recognized as non-timber forest produce — easing transport and trade

### Why Bamboo?

Fastest-growing renewable plant  
Excellent carbon sink & climate-resilient  
Over 1,500 industrial and craft uses  
Ideal alternative to plastic, wood & steel

### The Way Forward:

NBM envisions India as a global hub for bamboo innovation. Through eco-conscious practices, skill-building, and partnerships with institutions like BRTC Chichpalli, the mission supports the dream of an Atmanirbhar Bharat while nurturing a greener future.

Visit: [nbm.da.gov.in](http://nbm.da.gov.in)



<https://www.brtc.org.in/>

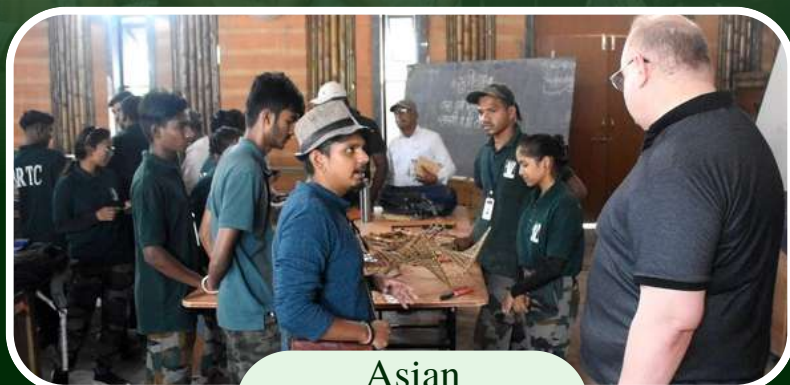


9552729996



[brtcchichpalli@gmail.com](mailto:brtcchichpalli@gmail.com)

# VISITORS



Asian  
Development Bank



Monitoring Committee



PDKV College  
Nagpur



SNDT University  
Members



Sunil sukre  
High Court Judge



IFS Batch

## Artisans Corner

My name is Rupesh, and I proudly work as an artisan at the Bamboo Research and Training Centre (BRTC), Chichpalli. Being part of BRTC has been an incredibly rewarding experience for me. The work comes with its share of challenges, but I take pride in pushing through them—whether it's handling tight deadlines or managing complex bamboo craft assignments.

I often work beyond regular hours, especially when we have bulk orders to complete. Despite the hard work, I feel a strong sense of satisfaction when I see the finished products and the appreciation they receive.

At BRTC, we don't just follow traditional methods—we constantly create innovative bamboo products that meet modern needs while staying rooted in our cultural craft. From eco-friendly utility items to artistic home décor, each product reflects creativity and skill.

One of the best parts of working at BRTC is the supportive and encouraging environment. The staff, fellow artisans, and trainers are always ready to help each other. This sense of community motivates me every day and helps me improve my skills continuously.

I am truly thankful for the opportunities BRTC has given me—not just for livelihood, but for growth, learning, and self-respect through bamboo craftsmanship.





# MY JOURNEY OF EMPOWERING WOMEN THROUGH BAMBOO BASKETRY BY YOGITA SATHAWANE, SUPERVISOR – BRTC, CHICHPALLI

It has been a truly fulfilling experience for me to conduct bamboo basketry training programs under the District Mineral Foundation (DMF) scheme. Over the past few months, I've had the privilege of training more than 150 women across various villages like Mohorli, Varvat, Ghugus, and Nimbada.

Most of these women were learning bamboo craft for the first time, but their dedication and creativity were inspiring. I saw how quickly they adapted, supported each other, and started weaving beautiful baskets with precision. Some have even expressed interest in starting self-help groups and exploring local markets.

I feel proud to be part of this initiative by BRTC, where we're not just teaching skills but also building confidence and self-reliance among women in our communities. This work makes me believe more strongly in the power of bamboo and the strength of rural women.

**Please visit our souvenir shop located at Moharli, Kolara Gate, Chandrapur.**



**GOVERNMENT OF MAHRASHTRA  
BAMBOO  
SOUVENIR SHOP**

**BAMBOO RESEARCH & TRAINING CENTRE**





**ADMISSION**  
**OPEN**



# DIPLOMA IN BAMBOO TECHNOLOGY

**REGISTER NOW**



<https://www.brtc.org.in/>



9552729996



[brtchichpalli@gmail.com](mailto:brtchichpalli@gmail.com)