



**Submission of
Detailed Project Proposal**

Under the Scheme

**“DBATU Vice Chancellor’s
Research Promotion Grants 2023”
(DBATU-VC-RPG 2023)**

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Proposals under DBATU-VC-RPG 2023 are expected to be related to areas of research listed in categories as under

1. Technology interventions for Addressing Societal and/or Industrial Needs

- Research on identifying local & systemic needs and developing scientific and need-based innovative technologies for improvement in following areas-
 - Green Infrastructure and Connectivity to Remote Habitations;
 - Recycling and reprocessing of non-bio-Waste;
 - Bio-oil or other products from Agricultural Waste;
 - Affordable Quality Health & Nutrition and/or Sanitation Management System;
 - Crop Stubble Management;
 - Hydroponic farming System;
 - Low-Cost Educational Tools;
 - Drudgery reduction of traditional artisans in particular and others in general
 - Grey Water Recycling System and Usage of Treated Water;
 - Eco-tourism, Agro-tourism, Academic-tourism Management;
 - Biologically integrated farming systems (BIFS) & best practices;
 - Linking local innovations to market and financial services;
 - Low-Cost commodity Tools;
 - infectious disease management and development of vaccines
 - applications of geotagging
 - Hyperspectral analysis for agriculture and/or health care
 - Online security system applications for cryptocurrency and block chain
 - Development of smartphone-based applications
- Standardizing locally appropriate & pilot tested technologies;
- Identifying local innovation system and linking with formal innovation system;

2. Capacity Building of Community-based organizations and Knowledge Institutions

- Imparting knowledge on societal development issues, Sustainable Development Goals of National Priorities and Scientific Social Responsibilities to scientific & research community;

3. S&T Studies & Surveys:

This includes support for carrying out S&T studies/surveys including techno- economic analysis, simulation modeling etc; development of State databases on S&T resources; S&T policy issues; specific status reports on technology gaps etc. The activities under this head should lead to specific action plan for generation of field projects such as:

- (1) applications of satellite surveys for CRZ mapping, contouring, land profiling, flood risk management, etc.
- (2) Spectral Mapping
- (3) Food Preservation techniques
- (4) Extractions of medicines from plants

4. Location specific research & innovative technology development / application:

Identify and formulate projects linked to specific local needs, material resources, skills, and potential of development with S&T inputs/applications. Utility in the local conditions should be the primary focus.

5. Pilot scale demonstration projects:

Pilot scale demonstration projects, including field trials, based on technologies developed by Central S&T Agencies Labs/Institutions etc. relevant to the needs of the State. These may involve appropriate collaborations within institutions.

6. Replication of successful models

Replication of innovative S&T projects/programs based on successful experiences elsewhere. These could be linked to their relevance to local situation.

7. Joint Programs

To evolve and support certain joint programs focusing on multi-sectoral area- based approach to rural regional development in cooperation with multiple State & Central Institutions, NGOs and field agencies. These locations should be so identified that S&T intervention could significantly improve the existing economic conditions

8. Awareness and Training:

Awareness and Training on specific innovative technologies, scientific information and skill development requiring special S&T inputs and also on specific topics/themes such as nutrition, water, hygiene, superstitions, local trades, science education etc.

9. Indian History and Value based Education:

Technological studies related to “Swarajya” of Ch. Shivaji Maharaj, leading to investigative creation of audio-visuals, short films, PPTs etc. which shall effectively use technological tools such as 3D Mapping in presentation of studies. It is expected to cover armory, warfare strategy, naval defense strategy, construction of forts, communication and transportation planning, etc.

Summary

1. **Title of the project proposal:**
2. **Sr. No. of category as listed on page 2 and 3:**
3. **Name of the Institution where the work will be carried out:**
4. **Name of the investigator/s:** (must be regular Faculty)
5. **Objective of the project:**
6. **Methodology:**
7. **Duration of the project:**
8. **Approximate cost for the project:**
 - Recurring expenses:
 - Non-Recurring expenses: (Purchasing equipment and PC, laptop, software, computer peripherals are not permitted)
9. **What is the scope of the project? What end results are expected?**
10. **Why do you feel the necessity to undertake this work?**
11. **Who will be benefited by the proposed work and what is the scope for its replication/ scale up?**
12. Total Amount of funding for the proposed research work
13. If amount in 11 above is more than Rs. 5.0 lakh, what are other sources to generate balance funding

Certified that I/we have not submitted the same / similar proposal for funding support from any other source expect for the purpose covered as under 13 as above.

Signature of Investigator/s

Certified that PC/Laptop/Software or basic laboratory equipment required for proposed research are available in our department

Signature of Head of Department:

Certified that DBATU-VC-RPG funding will be used for purpose as stated and as approved in proposal. Information as above is true, if found false at any point of time, the proposal will be rejected by the University and disciplinary action as per University Act and Statutes will be acceptable which will include returning the financial grant with necessary additional interest.

Signature of Principal:

Seal of Institute

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A. IDENTIFICATION

[1] **Project Title**
keywords
Broad Area

[2] **Duration:**

[3] **Cost Estimates: Schedule/s of proposed utilization of grant.**

[4] **Investigator/s:**

4.1 Name:

4.2 Department:

4.3 Designation:

4.4 Organisation/Institution Name:

4.5 Address (Including Telephone (official & residence), E-mail, Fax):

[5] **Capability of the Organisation**

a) **Major Facilities related to proposed research:**

b) **Expertise available related to proposed research:**

c) **List of on-going and completed projects giving the following details**

Project Title	Start Date	Completion Date	Project Cost	Sponsoring Organisation

B. TECHNICAL DETAILS

1. Background

1.1 Description of problem:

1.2 Review of work already done

1.3 Rational for taking up the project

1.4 Relevance to State priorities

2. Challenge and Constraints

Please identify strengths and weaknesses of the implementers vis-à-vis current project in terms of technical expertise, team building, past record etc. Also list the perceived opportunities and threats and describe how PI/Organisation proposes to capitalise on them or avert them.

3. Description of Proposal

3.1 Objectives of the project. (Brief and to the point)

3.2 Preliminary Investigations done by organisation. (If any)

3.3 S&T component in the project.

3.4 Linkage with S&T Institutions / NGOs / resource persons / R&D organization / Industry for technical backup.

3.5 Other organisations working in this area.

3.6 Methodology detailing stepwise activities and sub-activities.

4. Work Plan

Phase-wise plan of action up to post project activities detailing time schedule. Milestones may clearly be indicated. PERT/GANTT chart may be attached.

5. Targeted Output of the Project

6. Likely Impact (Please attempt to quantify)

7. Parameters for monitoring effectiveness of project

8. Suggested Post Project Activities

9. Budget Estimates: Summary

10. Details of Institute Bank Account (A/C Name, Type, Name of Bank, IFSC)

Signature of Investigator/s (All pages of proposal shall be signed)