

GOVERNMENT OF MANIPUR
DIRECTORATE OF SCIENCE & TECHNOLOGY
OLD LAMBULANE, IMPHAL – 795 001

N O T I C E

Imphal, the 30th July, 2010.

No.19/3/2010 (R&D)-DST: Under the Research and Development Scheme of this Department, financial support is provided to Scientists, Engineers, Doctors etc. for taking up Research projects with inputs of Science and Technology having potential application for Socio-Economic development of the people of Manipur.

1. Applications in the prescribed format for funding of Research projects during 2010-11 under the **R&D Scheme** of this Department are invited from Scientists, Engineers, Doctors etc. of :-
 - i) Recognized Universities, Medical, Engineering, Agricultural and R&D Institutions.
 - ii) Govt. Deptts./Institutions and Government undertaking organizations having essential basic facilities for carrying out the projects .
2. The proposed Research projects shall be :-
 - i) Short term of maximum 1(one) year duration.
 - ii) Result oriented projects of applied nature. Purely academic projects are not supported.
 - iii) Aimed at filling of critical gaps or resolution of problems in Agriculture, Industry, Energy, Natural Resources, Health & Environment etc., and
 - iv) Related to some local problems of Manipur and having significant S&T component.
3. The grant will normally be between Rs.0.50 to 1.00 lakh only.
4. Purchase of furniture, laboratory equipment, computers and other permanent equipment are not allowed out of the grant.
5. Project duration of more than 12(twelve) months will normally not be considered.
6. The Project proposals shall be evaluated by the Selection Committee for R&D projects. The Investigators may be required to make a short presentation to the Committee for interactive discussion and appreciation of the proposal. The Investigators may also be asked to present their findings at the Seminar/Workshop arranged by this Department after completion of project. The Project Reports are also proposed to be hosted on a Website for access over Internet.
7. Last date of receipt of applications in the prescribed format is **31st August, 2010**. The guidelines of the Research Project Proposal under R & D Scheme of the Deptt. and the prescribed formats may be downloaded from the Manipur Govt. Website www.manipur.nic.in


(Uttam C. Laisram)
DIRECTOR

Memo No.19/3/2010 (R&D)-DST:
Copy to:-

Imphal, the 30th July, 2010.

1. The Commissioner(S&T), Govt. of Manipur.
2. The Registrar, Central Agricultural University, Iroisemba.
3. The Director, Regional Institute of Medical Science, Lamphel.
4. The Registrar, Manipur University, Canchipur.
5. The Director, DOEACC, Akampat, Imphal.
6. The Director, J.N. Institute of Medical Science, Porompat.
7. The Principal, Manipur Institute of Technology, Takyelpat.
8. The Director,(Higher & Technical Education),Govt. of Manipur.
9. The Joint Director, ICAR, Lamphelpat.
10. The State Informatics Officer ,National Informatics Centre,
Manipur State Unit, Imphal,
-with a request to kindly publish this Notice along with the
Guidelines & prescribed format on the Manipur Govt. Website www.manipur.nic.in
11. DST Notice Board.

For wide publicity in your
esteemed organisation

GOVERNMENT OF MANIPUR
DEPARTMENT OF SCIENCE AND TECHNOLOGY

FUNDING OF RESEARCH PROJECTS
UNDER R & D SCHEME OF DST, MANIPUR

TERMS AND CONDITIONS

1. Funds released for the projects is for the specific project sanctioned and should be exclusively spent on the project. Any unspent part of the sanctioned amount should be returned/surrendered to the Deptt. of Science & Technology, Govt. of Manipur.
2. Funds are not released directly to the Investigators, but only through the Institution / Organisation.
3. DST reserves the right to terminate the grant at any stage if it is convinced that the grant has not been properly utilized or appropriate progress is not being made.
4. The Investigators shall furnish brief quarterly progress reports. The Final Project Report to DST on completion of the project shall be submitted along with Utilization Certificate in GFR -19A format and Statement of Expenditure.
5. The Final Project Report shall be submitted to DST within 2(two) months from the Project Completion date. Projects shall be deemed to start after one month from the date of release of funds to the Institute, for the purpose of calculating the Project Completion date.
6. In case of delay by DST in release of Project funds after conveying sanction, the Investigators are allowed to start the Project from the date of sanction of the project, and adjust the expenditure after receipt of the project funds.
7. The Investigators shall refund the full sanctioned project cost if the Final Project report is not submitted to DST within 6(six) months of the Project Completion date.
8. The Final Project Report shall be submitted to DST in 5 (five) copies in the prescribed format in bound form and also a soft copy in CD-ROM in MS Word / PDF format, which may be used for uploading to the Internet/ Website.

GUIDELINES AND FORMAT
FOR SUBMISSION OF
RESEARCH PROJECT PROPOSALS
UNDER

**RESEARCH AND DEVELOPMENT
SCHEME - 2010-11**

**GOVERNMENT OF MANIPUR
DEPARTMENT OF SCIENCE & TECHNOLOGY
OLD LAMBULANE, IMPHAL-795001**

Phone : (0385) 2451816, 2454930, FAX :(0385) 2451816

e-Mail : dstmanipur@nic.in

**GUIDELINES FOR SUBMISSION OF
RESEARCH PROJECT PROPOSALS UNDER R&D SCHEME OF DST, MANIPUR.**

INTRODUCTION:

Science and Technology play a vital role in the development strategy of various sections of the society. The Deptt. of Science & Technology, Govt. of Manipur, provides financial support to motivate scientific and Technical experts to take up R&D Projects with inputs of Science and Technology to contribute to the Socio-economic development of the people of Manipur.

OBJECTIVES OF THE SCHEME:

1. To promote research, development and adaptation of Science and Technology for improving quality of life.
2. To motivate scientists and experts for supplying of their knowledge and expertise to the problems of the people for socio-economic development in Manipur.

WHO CAN SUBMIT A PROPOSAL:

Scientists, Engineers, Doctors etc. belonging to :

- Recognised Universities, Medical, Engineering, Agricultural and Technical Institutions.
- Recognised R&D Institutions
- Govt. Deptts. & Govt. Undertakings having essential basic facilities for carrying out the project.

AREAS OF SUPPORT :

Applied short-term, result-Oriented Research, Development and Engineering Projects for filling critical gaps or resolution of problems in Agriculture, Industry, Energy, Natural Resources and Health etc. related to some local problems of Manipur.

Projects should be on applied aspects of the problems and may be of single or multi-disciplinary nature, but should have significant Science and Technology component.

Projects which are essentially of academic nature will not be supported.

WHEN AND HOW TO SUBMIT A PROPOSAL :

The proposal can be submitted as per DST notification, which is normally issued around July-December every year. The proposal shall be in prescribed format only.

COMPONENTS OF GRANT :

Cost of materials, consumables, project manpower, travel and contingencies are provided.

: 2 :

ITEMS NOT ALLOWED OUT OF THE GRANT/RESTRICTIONS :

- Purchase of furniture, Laboratory equipments, vehicles etc. are not allowed out of grant. Permanent equipments may be considered only in exceptional cases.
- Projects on pure Sciences and those which are primarily of academic interest shall not be supported.
- The Project should not be drawn to obtain a few research fellows who may work towards Ph.D. Degree, since opportunities or such fellowship are available under separate programme.
- Project duration shall normally be of 6(six) to 12(twelve) months only, and projects of longer duration may be considered only in exceptional cases.

OPERATION OF THE SCHEME :

Project proposals are evaluated by a Committee of Experts. The Investigators may be required to make a short presentation to the Committee of Experts on proposal, for interactive discussion and appreciation of the proposal. The Investigators may also be asked to present their findings at the Seminar/Workshop arranged by this Deptt. after completion of the project.

CONTACT ADDRESS :

The Director,
Department of Science & Technology,
Government of Manipur
Old Lambulane, Imphal – 795 001.
e-mail : dstmanipur @ nic.in
Telephone : 2451816, 2454929, 2454930.

**THRUST AREAS FOR RESEARCH PROJECT PROPOSALS
UNDER R&D SCHEME OF DST, MANIPUR.**

THRUST AREAS :

To direct the efforts of experts, the following priority areas with the objective of Socio-Economic Development have been identified.

1. Energy related technologies including those for Renewable/Non-Conventional Sources, and Energy Conservation aspects with due weightage to domestic/local availability base.
2. Conservation of land, water and energy resources and their integrate management for sustainable development, leading to higher efficiencies in utilisation.
3. Local-specific requirements of exclusive concern to Manipur such as those based on Natural Resources and indigenous.
4. Extensive and intensive mapping and exploration of natural resources as well as estimation of reserves for optimal utilisation of such resources.
5. The necessity of protecting vast sections of people against natural hazards like Earthquakes, Cyclones, Draughts and Floods.
6. Agriculture, allied services and agro-based industries.
7. Technologies and practices for provision for maintenance of health services, as well as leading to development of new drugs, medical devices and instrumentation, improved practices etc.
8. Technologies and practices related to betterment of infrastructural facilities like; Transport, communication, drinking water, irrigation and housing.
9. Areas which are relevant to a hold range of modern systems like materials development, bio-technology, electronics and communication, with emphasis on new product and system designed.
10. Speedily enlarging areas of recognized strength like software.
11. R&D in Medical Sciences and relevant devices for benefit of the people.

**UTILISATION CERTIFICATE
(FORM GFR- 19 A)**

(See Government of India's Decision (1) below Rule 150)
(To be submitted in duplicate to DST, Manipur)

Sl. No.	Letter No. & date	Amount
	Total	

Certified that out of Rs _____ (Rupees) only of grants-in-aid sanctioned during the year _____ in favour of _____ under this Ministry/Department letter No. in the margin and Rs _____ on account of unspent balance of the previous year, a sum of Rs. _____ has been utilized for the purpose of _____ for which it was sanctioned and that the balance of Rs. _____ at the end of the year has been surrendered to Government (vide No. _____ dtd. _____ will be adjusted towards the grants-in-aid payable during the next year _____.

2. Certified that I have satisfied that the conditions on which the grants-in-aid was sanctioned have been duly filled/ are being fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purposed for which it was sanctioned.

Kinds of checks exercised.

- 1.
- 2.
- 3.

Signature of
Principal Investigator:
Name:
Designation

Signature of
Accounts Officer:
Name:
Designation:

Counter Signature of
Head of Organisation:
Name & Designation:

STATEMENT OF EXPENDITURE

(As on.....)

(To be submitted in duplicate to DST, Manipur)

Name of the Project :	
Name of the Principal Investigator :	
Name of the Institute :	
DST letter No. & date sanctioning the project	

Sl. No.	Items	Amount Sanctioned	Actual Expenditure	Variation (if any)	Remarks
1.	Materials:				
2.	Consumables :				
3.	Project manpower:				
4.	Travel :				
5.	Other Costs / contingencies :				
	Total :				

Signature of
Principal Investigator:
Name:
Designation

RESEARCH PROJECT PROPOSAL FORMAT
APPLICATION FOR FUNDING OF RESEARCH PROJECT

To,

The Director (Science & Technology),
Government of Manipur.

Subject :- Application for funding of Research Project for the year 2010-11.

Ref:- DST Notice No. _____ dtd. _____

Sir,

I/we would like to take up a short term, result-oriented Research Project with the following title:

Project title : _____

I/We Certify that :

1. I/We agree to abide the terms and conditions of the DST Grant.
2. I/We did not submit this or a similar project proposal to elsewhere for financial support.
3. I/We have explored and ensured that the equipment and basic facilities will actually be available as and when required for the purpose of the project.
4. I/We agree to the refund of the full sanctioned project cost if the project is not completed at stipulated time and the final project report is not submitted to DST within 6(six) months from the project completion date.

Signature & Name of the Investigators.

Date : 1)

Place : 2)

Enclosed:

- a) Endorsement Letter from the Head of Institution (on letter head) in prescribed format
- b) Research Project proposal details in formats part 1 to 5.
- c) 10 (Ten) additional Xerox copies of Part 2 (Summary of project proposal)

**RESEARCH PROJECT PROPOSAL
FORMAT OF ENDORSEMENT LETTER FROM THE HEAD OF INSTITUTION**

(To be given on Official letter head)

To,

The Director,
Department of Science & Technology
Government of Manipur.
Old Lambulane, Imphal.

Subject :- Endorsement from Head of Institution for taking up R&D Project
with funding of DST, Manipur.

Sir,

This institute welcomes the participation of
Dr./Shri/Smt. _____ Principal Investigator
and
Dr./Shri /Smt. _____ Co-Investigator for
the Project titled _____ and
certify that in the unforeseen event of discontinuance, the Principal Investigator and Co-
Investigator will assume responsibility of fruitful completion of the project.

2. Certified that the equipment, other basic facilities and such other administrative facilities needed for undertaking the project are available at this Institute, and these will be extended to the Investigator(s) throughout the duration of the project.

3. This institute assumes to undertake the financial and other management responsibilities of the project. The Demand Draft/Banker's Cheque for the sanctioned project cost shall be released to the Institution in favour of _____

4. This Institute agrees to refund in full the project cost by deduction from the salaries of the Investigator on demand from DST, if the final project report is not submitted within the 6 (six) months of the project completion date.

Date :
Place :

Signature & Name of the
Head of Institution with Seal.

RESEARCH PROJECT PROPOSAL FORMAT

PART 1 : Identification

1.	Project Title :	
2.	Scheme applied for :	a) Research & Development
3.	Project applied under the DST Thrust Area of : (From notified list only)	
4.	Project duration :	
5.	Total project cost :	
6.	Principal investigator : Name : Designation: Date of birth: Organisation: Address for correspondence: Telephone No.(Office & Mobile): Email:	
7.	Co-Investigator : Name : Designation: Date of birth: Organisation: Address for correspondence: Telephone No.(Office & Mobile): Email:	
8.	Self attested Passport size Photograph of Principal Investigator:	Self attested Passport size Photograph of Co-Investigator:
	Signature:	Signature:

RESEARCH PROJECT PROPOSAL FORMAT
PART 2 : SUMMARY OF PROJECT

(Please fit into one Page only.)

Submit 10(ten) extra copies for circulation among Selection Committee Members).

1.	Project Title :	
2.	Principal investigator :	
3.	Name of Institution:	
4.	Project Objective :	
5.	Work plan / Methodology :	
6.	Nature of outcome of the Project :	
7.	Relevance of the outcome to socio-environment / economic development of the people of Manipur :	
8.	Proposed budget and project duration	
9	Any special point of significance.	

RESEARCH PROJECT PROPOSAL FORMAT
PART – 3 : TECHNICAL DETAILS

Project Title :

1. Introduction :

- 1.1. Origin of the Proposal
- 1.2. Definition of the project
- 1.3. Objectives of the project
- 1.4. Science Technology content of the proposal
- 1.5. Importance of the proposal with reference to Manipur.

2. Review status of the subject :

- 2.1 International status
- 2.2 National status
- 2.3 Importance of the project in the context of current status

3. Capability of the Organisation

- 3.1 Specialists consulted/ to be consulted
- 3.2 Expertise available with the Investigating group
- 3.3 List of on going and completed projects of this group
with the following details :

Title of the Project	Month &Year of start	Month &Year of completion (Targeted)	Project cost	Name of sponsoring Organisation

4. Work-plan :

- 4.1 Methodology and experimental set-up to be adopted:
- 4.2 Materials and date to be collected and examined:
- 4.3 Method of analysis and conclusion:
- 4.4 Time schedule of activities giving milestones:

5. **Outcome and Assessment :**

- 5.1 Nature of outcome of the project
- 5.2 Anticipated contribution from the project towards increasing the state and knowledge on the subject.
- 5.3 Proposed academic benefits from the project in terms of number of research publications and manpower trained.
- 5.4 Anticipated practical benefits resulting from the outcome/financings of the project.
- 5.5 Anticipated practical benefits which are relevant particularly to the socio-economic development of the people of Manipur.
- 5.6 Names and addresses of experts/ institutions interested in the project outcome of the project.
- 5.7 Whether Patent is proposed.

**RESEARCH PROJECT PROPOSAL FORMAT
PART – 4 : BUDGET ESTIMATES**

1. TOTAL BUDGET :

Item	Budget Estimate(in Rs)
A. 1. Materials : 2. Consumables : 3. Project manpower: 4. Travel : 5. Other Costs / contingencies :	
B. Equipments (normally not supported)	
Grand Total (A+B) :	

2. DETAILS OF MANPOWER :

Designation of manpower	Qualification	Monthly Wages	No. of Months to be engaged
Total :			

3. JUSTIFICATION : Please give justification for budget items.

- a)
- b)
- c)

Note: Manpower will normally be treated as part-time engagement and the wages/honoraria will be considered accordingly.

**RESEARCH PROJECT PROPOSAL FORMAT
Part 5 : BIODATA OF INVESTIGATORS**

A. Name :	
B. Date of Birth :	
C. Institution :	
D. Whether belongs to SC/ST :	
E. Academic & Professional career : Academic career : Professional career :	
F. Title of Doctoral theses :	
G. Award/Prize/Certificate etc. won by the Investigator :	
H. Publications : Books : Research Papers, Reports : General Articles : Nos. Nos. Nos.

I. List of completed and on-going projects during the last five years (if any):

Sl.No.	Title of the Project	Duration		Total Cost	Funding Agency
		From	To		

I. Project submitted for funding (if any):

Sl.No.	Title of the Project	Name of Organisation applied to	Funding Agency

FINAL PROJECT REPORT FORMAT

5(Five) copies of the report are to be submitted on completion of the project along with soft copy in CDROM in MS Word / PDF format.

A. FIRST PAGE :

1. Project Title :
2. Name & Designation of Principal Investigator :
3. Project Serial Number (as per DST Sanction Order) :
4. DST Sanction Order No. and date :
5. Sanctioned Project cost and duration :
6. Actual Project cost and duration :
7. Date of Project start and completion :
8. Project Funding Agency :
9. Signature of the Investigators:

B. PROJECT REPORT CONTENTS :

1. Project proposal details as per formats PART 1 to PART 5
2. Deviations made from original objectives, if any, while implementing the project, and reasons thereof.
3. Details of the project work. This should include full details of the Experimental set-up, Methodology adopted, Materials and Data collected and examined, Data collection format/questionnaire etc. It should be supported by tables, charts, drawing, maps, photographs etc.
4. Outcome of the Project :
5. Analysis of Results. This should indicate contributions made towards increasing the state and knowledge on the subject.
6. Conclusion, summarizing the achievements and indicating scope of future work.
7. Benefits accorded from the Project :
 - a) Academic benefits :
 - 1) List of Research Publication- indicating Authors, Title of paper, Name of Journal, Volume, Page, Year.
 - 2) Scientific manpower trained, indicating Names with qualifications and dates.
 - 3) Non-Scientific manpower trained, indicating Names and dates.
 - b) Contributions towards socio-economic development :
 - 1) Practical benefits resulting from the project outcome.
 - 2) Specific benefits, if any, to the people of Manipur.
 - 3) Patents taken/proposed, if any.

C. UTILISATION CERTIFICATE & STATEMENT OF EXPENDITURE :

To be furnished in duplicate in GFR-14A & SOE(statement of Expenditure) prescribed format.
