

PROFORMA FOR SUBMISSION OF PROGRAMME SUPPORT/PROJECTS UNDER MEDICAL BIOTECHNOLOGY & HEALTHCARE AREAS

Preamble:

The Department of Biotechnology is soliciting research and development proposals for providing Programme Support to interdisciplinary groups with demonstrated research capacity working in a defined priority domain. The purpose of programme support is to create centres or research groups of excellence. The research groups are expected to be involved in coordinated research activities with the participation of basic scientists, applied scientists, biomedical scientists and clinicians from relevant disciplines. Preference would be given to the application oriented programmes that are likely to lead to new ways to detect diseases early, identify target groups that may benefit for specific therapies, develop new therapeutics or preventive strategies with essential health and economic gain. Ideally the collaborative methods would involve and link investigators within the same institute or across basic science or medical institutes.

The Terms for the Proposal:

The proposed Programme Support will be highly competitive. The group leaders should have proven track record. The groups, within or across the institutes should collectively have strength in basic research, technology and medicine. Initially the Programme Support would be considered for a period of three years with flexible support extending up to five years or longer in the programmes demonstrating significant progress. In addition for one or more related specific research projects, equipment and training support will be considered. Clinical trials, if appropriate would be taken up.

The Department of Biotechnology is considering instituting 3-4 programmes during this financial year. However, other programmes of merit eligible for funding, which do not get funded this year, would be considered for financial support in the next financial year.

Proforma for Submission of Proposals for Programme Support R&D Projects under Medical Biotechnology and Healthcare Areas (To be filled by the applicant)

PART I : GENERAL INFORMATION

1. Programme/Project Title _____

2. **Category of the Programme/Project** (Please tick): Programme Support
 R&D
 Establishment of Centre of Excellence

3. **Priority Area** (As per the list of priority areas given below): _____

4. **Duration:** _____ **Years** _____ **Months** _____

5. **Total Programme/Project Cost:** Rs. _____ **Lakhs**

6. **Is the project Single Institutional or Multiple-Institutional (S/M)?** :

7. **If the Programme/Project is multi-institutional, please furnish the following:**

Name of Programme/Project Coordinator: _____

Affiliation: _____

Address: _____

8. **Programme/Project Summary** (attach separate sheet – one page)

9. **Priority Areas: Medical Biotechnology and Healthcare**

- (i) **Infectious Diseases & Vaccinology** - Development of vaccine candidates, defining protective immunity, biomarkers, novel adjuvants, delivery systems and molecular epidemiology.
- (ii) Diagnostics using new innovative technologies resulting in tests that are easy to perform, rapid, affordable, including those that detect multiple diseases through syndrome approach, or select (target groups for therapeutics). Focus is on diagnostics that influence medical practice or are useful in public health programmes.
- (iii) **Stem Cell Research** on basic and applied aspects with potential applications leading to therapy of spinal cord injury, Ischemic heart disease, cardiac failures, neurological, cutaneous, ocular and joint diseases.
- (iv) **Molecular Cardiology** with emphasis on Molecular pathogenesis of major cardiac disorders including genomics and proteomics to identify marker from early detection or targets for therapy, tests for screening in high risk groups.
- (v) **Pharmacogenomics** including drug metabolism, identification of drug target, drug design, genotype analysis etc.
- (vi) **Diabetes & other Metabolic Disorders**
- (vii) **Cancer Biology** and **Biology of Metastasis** leading to early detection and new therapies.

- (viii) **Molecular Pathogenesis of Chronic Neurological Diseases/ Disorders.**
- (ix) **Nanobiotechnology** – applications for medical and healthcare areas.

PART II : INVESTIGATOR PROFILE

10. Programme/Project Coordinator:

Name _____
Date of birth _____ Sex (M/F) _____
Designation _____
Department _____
Institute/University _____
Address _____

Pin _____
Telephone _____ Fax _____
E-mail _____

11. Principal Investigator:

Name _____
Date of birth _____ Sex (M/F) _____
Designation _____
Department _____
Institute/University _____
Address _____

Pin _____
Telephone _____ Fax _____
E-mail _____

12. Co-Investigator

Name _____
Date of birth _____ Sex (M/F) _____
Designation _____
Department _____
Institute/University _____
Address _____

Pin _____
Telephone _____ Fax _____
E-mail _____

PART III : TECHNICAL DETAILS OF PROGRAMME/PROJECT

(Under the following heads on separate sheets)

13. Introduction

- 13.1 Description of broad aims and objectives of the proposed research programme over a 5 years period. One page each on specific studies to be developed in next five years including potential for application(s) envisaged from the research.
- 13.2 Specific research project(s) that will be initiated in the first year of the programme support.

14. Review of Current Status of research and development in the subject

- 14.1 International Status
- 14.2 National Status
- 14.3 Importance of the proposed programme/project in the context of current status
- 14.4 Description of institution(s) and recent research interest
- 14.5 Expertise available with the proposed investigating group/institution in the subject of the programme/project (individual group/institute should be detailed).
- 14.6 Anticipated Products & Processes of Potential/Technological Application(s)/Socio-economic relevance expected to be evolved by pursuing the programme/project.
- 14.7 Does the programme require clinical trials? if so give details.

15. Work Plan

- 15.1 Methodology
- 15.2 Proprietary/patented items, if any, expected to be used for this programme/project.
- 15.3 Organization of work elements including training (if required)
- 15.4 Suggested plan of action for utilization of research outcome expected from the programme/project.
- 15.5 Time schedule of activities giving milestones

Sr.No.	Name of Milestone	Expected Start (Month/Year)	Expected Completion (Month/Year)

15.6 Programme/Project implementing Agency/Agencies

Name of Agency	Address of Agency	Proposed Research Aspects	Proposed Amount	Cost Sharing %

16. Linkages with other Institutions/Industries/NGOs , if any.

PART IV : BUDGET PARTICULARS

17. Budget

A. Non-Recurring (e.g. equipments, facilities, accessories, etc.)

Budget, details of the project. Individual project to be included in the five years. Key support may be indicated, which is required for equipment, facility(ies) etc. to facilitate continued work for 3 – 5 years.

(Rupees in lakhs)

S. No.	Item	Year 1	Year 2	Year 3	Year 4	Year 5	Total

Sub-Total (A)

B. Recurring

B.1 Manpower (See guidelines at Annexure-III)

S. No.	Position No.	Consolidated Emolument	Year 1	Year 2	Year 3	Year 4	Year 5	Total

Sub-Total (B.1) =

B.2 Consumables

S. No.	Item	Quantity	Year 1	Year 2	Year 3	Year 4	Year 5	Total

Sub-Total (B.2) =

Other items	Year 1	Year 2	Year 3	Year 4	Year 5	Total
B.3 Travel & Training (National)						
B.4. Contingency						
B.5 Overhead Charges (if applicable)						

Sub-Total (B = B.1 + B.2 + B.3 + B.4 + B.5)

Grand Total (A + B)

Note :

Please give justification for each head and sub-head separately mentioned in the above table.

Financial Year : April - March

In case of multi-institutional project, the budget estimate to be given separately for each institution.

PART V : EXISTING FACILITIES

18. Available equipment and accessories to be utilized for the programme/project :

S. No.	Name of equipment/ accessories	Make	Model	Funding Agency	Year of Procurement

PART VI : DECLARATION/CERTIFICATION

It is certified that

- (a) the research work proposed in the programme/project does not in any way duplicate the work already done or being carried out elsewhere on the subject.

- (b) the same programme/project has not been submitted to any other agency/agencies for financial support.
- (c) the emoluments for the manpower proposed are those admissible to persons of corresponding status employed in the institute/university or as per the Ministry of Science & Technology guidelines (Annexure-III).
- (d) necessary provision for the programme/project will be made in the Institute/University/State budget in anticipation of the sanction of the scheme/project.
- (e) if the programme/project involves the utilization of genetically engineered organism, it is agreed that we will ensure that an application will be submitted through our Institutional Biosafety Committee and we will declare that while conducting experiments, the Biosafety Guidelines of the Department of Biotechnology would be followed in toto.
- (f) if the programme/project involves field trials/experiments/exchange of specimens, etc. we will ensure that ethical clearances would be taken from concerned ethical Committees/Competent authorities and the same would be conveyed to the Department of Biotechnology before implementing the project.
- (g) it is agreed that any research outcome or intellectual property right(s) on the invention(s) arising out of the programme/project shall be taken in accordance with the instructions issued with the approval of the Ministry of Finance, Department of Expenditure, as contained in Annexure-V.
- (h) we agree to accept the terms and conditions as enclosed in Annexure-IV. The same is signed and enclosed.
- (i) the institute/university agrees that the equipment, other basic facilities and such other administrative facilities as per terms and conditions of the grant will be extended to investigator(s) throughout the duration of the programme/project.
- (j) the Institute assumes to undertake the financial and other management responsibilities of the programme/project.

Signature of Project Coordinator

(applicable only for multi-institutional projects)

Date:

**Signature of Executive Authority
of Institute/University with seal**

Date:

Signature of Principal Investigator

Date:

Signature of Co-Investigator

Date:

Signature of Co-Investigator

Date:

**PART VII : PROFORMA FOR BIODATA OF PROGRAMME/PROJECT
COORDINATOR/ PRINCIPAL INVESTIGATOR(S)/ CO-INVESTIGATOR(S)**

Name :Designation :

Department/Institute/University :

Date of Birth : Sex (M/F)

Education (Post-Graduation onwards & Professional Career)

Sl. No.	Institution Place	Degree Awarded	Year	Award/ Prize/ Certificate

Research Experience in various institutions (including national/ international trainings & abstracts of the investigations).

Publications (Numbers only)

Books :Research Papers, Reports :

General articles : Patents :

Others (Please specify) :

List of important publications relevant to the proposed area of work (last five years only):

Sl. No.	Title of Paper	Authors	Reference of Journal	Year of Publication

List of project(s) being pursued/carried out by the Coordinator/Investigator in the last five years:

Sl. No.	Title of Project	Funding Agency	Duration From To	No. of Scientists/ Associates working under the project	Total Approved Cost of the Project (in Rs.)

Highlight the progress of the project(s) (in 200 words) for ongoing projects only.

Place:

Date:

Signature of the Coordinator/Investigators

Note:

Twenty Five copies of the Programme Support Proposal/Project Document in the Prescribed Proforma should reach the Adviser (Medical), Department of Biotechnology, Block-2, C.G.O. Complex, Lodi Road, and New Delhi – 110003 by September 30, 2004. Any additional enquiry may be addressed at Telephone 2436 0984, Telefax 2436 0984, e-mail gandhi@dbt.nic.in .

The Department would entertain receiving a Letter of Intent (LoI), if desired, describing programme grant which will be responded within a week.