Government of India
Ministry of Science and Technology
Department of Science and Technology
Science for Equity, Empowerment & Development (SEED) Division

SUTRA-PIC

Scientific Utilization through Research Augmentation-Prime Products from Indigenous Cows: SUTRA-PIC India Program

OPEN CALL FOR RESEARCH & DEVELOPMENT PROPOSALS

An inter-Ministerial funding program "Scientific Utilization through Research Augmentation-Prime Products from Indigenous Cows" (SUTRA-PIC India) has been planned with the support of Ministry of Science & Technology through Department of Science and Technology (DST), Department of Biotechnology (DBT), Department of Scientific and Industrial Research (DSIR)- Council of Scientific & Industrial Research (CSIR); Ministry of Ayurveda, Yoga, and Naturopathy, Unani, Siddha & Homoeopathy (Ayush); Ministry of New and Renewable Energy (MNRE), Indian Council of Agricultural Research (ICAR), and Indian Council of Medical Research (ICMR). Project proposals are invited from scientists/ academicians from Research Institutions, Academics, Grassroots Organizationsand so on to carry out R&D work, technology development linked to capacity building at local levelcovering following five thematic areas:

1. Uniqueness of Indigenous Cows

Indian cows are believed to possess certain unique qualities& characteristics. It is well known perception that Desi cow remain healthy and can survive well in local environment. According to one report "The markets from Australia to Brazil are seeking India's cattle for their resilient qualities such as tick resistance, heat tolerance and the ability to flourish even with inadequate feeds." Though, scientific studies performed by a few investigators prove some special characteristics of *desi* cows, many other properties of these cows need detailed scientific investigations. Studies on Metagenomic and proteogenomic analysis of Indian cows need detailed scientific investigations. **Thus, one of the major aims under this theme is the systematic scientific investigation of uniqueness of pure Indigenous Indian cows.**

2. Prime-products from Indigenous Cows for Medicine and Health

Cowpathy is a treatment based on products obtained from Indigenous cow as used in Ayurveda. The ancient Ayurvedic literature (*VirCharak Samhita, Sushrut Samhita, Gad Nigrah*) suggests a number of pharmacological applications of Prime Products from Indigenous cows such as in treatment of leucoderma, hyperlipidemia, arthritis, renal disorders, dietary disorders, gastro-intestinal tract disorders, acidity, diarrhoea, dysentery, Cancer, diabetes, blood pressure, asthma,

psoriasis, eczema, ringworm, itching, heart attack, blockage in arteries, fits,gynaecological problems, ear and nose problems,etc.

Though many *Vaidyas* and practitioners are using Prime Products from Indigenous cows for various treatments, there is not much scientific studies and research on the same. Cow urine and its distillate is being used by Ayurveda practitioners throughout the country. However, the scientific information is lacking regarding active principle, batch to batch variation, seasonal variations, urine collection time and its effect, effect of fodder and differences/similarities among the urine of other cattle.**Thus, the research proposals under this theme should undertake detailed scientific investigation of chemical profiling, identification of bioactive principle responsible for enhancing activity of antibiotics and anticancer drugs, and other medicinal properties of Prime Products from indigenous cow from modern perspective.**

3. Prime-products from Indigenous Cows for Agricultural Applications

It is believed that cow dung and urine are rich in microbial communities and can therefore be investigated for their bio-pesticidal values. Farmers have traditionally carried out composting of animal manures but with rudimentary methodology. Therefore, selecting efficient method(s) for management of livestock waste and generate quality compost is essential in today's scenario. Also investigating the microbial community dynamics during the process of composting of dung from different cattle is pivotal in enhancing the process and developing standards for this biotechnological process. **The project proposals to be submitted under this theme, should aim to perform scientific investigations of role of Prime Products from Indigenous cows on plant growth, soil health and providing immunity in plant system, their application as organic manure and bio-pesticide in agriculture, among others uses.**

4. Prime-products from Indigenous Cows for Food and Nutrition

Ayurveda has given highest importance to cow's milk, curd and ghee, at various places. It is believed that Indian cow's milk is the very essential part of the balanced diet which isessential to have on daily basis to get all the required healthy nutrients in form of the vitamins, minerals and protein. It is believed to help in managing regular weight of the weight conscious people. Ghee is mostly prepared by traditional method in Indian households or by direct cream method at industry level. It is believed that the quality of ghee and its shelf-life depends on the type and quality of milk and method of preparation. **The proposals under this theme, should aim to perform scientific research on complete characterization of milk and milk products derived from Indian indigenous cows, Scientific research on nutritional and therapeutic properties of curd and ghee prepared from indigenous breeds of cows by traditional methods; development of standards for traditionally processed dairy products of Indian origin cow; and Identification of Bio/Chemical markers to authenticate the quality of *ghrita*.**

5. Prime-products from indigenous cows-based utility items

The major areas of interventions for the development of utility products based on Prime Products from Indigenous cows may include: mosquito repellent, floor cleaner, personal care products like *dantamanjan*, hair-oil,shampoos, conditioners, etc. Initial studies performed by a few investigations showed the effective development of an antidandruff poly-herbal hair conditioner based on cow urine. It is also widely believed that smouldering cow patties keep away mosquitoes. Apparently, the traditional Indian village system of wiping the floor daily with a mixture of water and fresh cow dung assured that flies and other insects did not settle there. Various products are available in the market but there is no scientific research on the

same. Procedures and standard for the development of utility products based on Indigenous cows should be undertaken. **Thus, the proposal under this theme should be framed with aims to standardize effective, economic and eco-friendly preparations of Utility products from the Prime components of indigenous cows.**

Note: It may be noted that products developed from the project under SUTRA-PIC program should be certified by concerned agencies for quality control and compliance with standards. For example, Medicinal products should get certified by Ministry of AYUSH. Products developed under the program should conform to BIS or related standardization on quality control.

Who can apply:

Proposals can be submitted by Academic/R&D Institutions/potentialS&T capable voluntary organizations (NGO's) active in India with proven record of accomplishment in executing S&T based R&D projects.

Project Duration: Normally for a period of two-three years.

Project cost: Project cost should commensurate with the activities planned and due justification may be provided.

How to Apply: The format for submission of project proposal under SUTRA-PIC India Program is available for online submission under SEED Division on the website: *https://*onlinedst.gov.inin Electronic Project Management System (e-PMS).Please use a standard 11-point font for all text (not including figures or tables) and a 2.5 cm (one inch) margin on all sides. Principal Investigator has to register at this portal and then upload the proposal in the given format. For any queries, please contact.Dr. Sunil K. Agarwal, Scientist 'E', Science for Equity, Empowerment & Development Division (SEED), Department of Science & Technology, Technology Bhavan, New Mehrauli Road, New Delhi –110016 (E – Mail: sunilag@nic.in& Phone: +91 11 26590693/618)

Approval mechanism: As per standard DST Rules and Regulations.

Last date of Proposal Submission: Completed applications must be received no later than 30 days from date of advertisement. No proposals shall be entertained after the last date i.e.**14-03-2020.**

Project Proposal Submission under

"Scientific Utilization through Research Augmentation- Prime Products from Indigenous Cows": SUTRA-PIC India Program

INTRODUCTION:

A inter-Ministerial funding program "Scientific Utilization Through Research Augmentation-Prime Products from Indigenous Cows" (SUTRA-PIC India) has been initiated with the support of Ministry of Science & Technology through Department of Science and Technology (DST), Department of Biotechnology (DBT), Department of Scientific and Industrial Research (DSIR)-Council of Scientific & Industrial Research (CSIR); Ministry of Ayurveda, Yoga and Naturopathy, Unani, Siddha and Homoeopathy (AYUSH); Ministry of New and Renewable Energy (MNRE), Indian Council of Agricultural Research (ICAR), and Indian Council of Medical Research (ICMR).The program will involve participation of Research Institutions, Academics, Grassroots Organizations and so on to carry out R & D work, technology development and capacity building at local level covering following five thematic areas:

1. Scientific research on uniqueness of Indigenous Cows.
2. Scientific research on *Prime-products from indigenous cows* for medicine and health.
3. Scientific research on *Prime-products from indigenous cows* for agricultural applications.
4. Scientific research on *Prime-products from indigenous cows* for food and nutrition.
5. Scientific research on *Prime-products from indigenous cows-based* utility items.

ELIGIBILITY CONDITIONS:

- Recognized R&D laboratories, Universities and Educational Institutions.
- **S&T capable voluntary organizations**, registered under the Societies Registration Act 1860 or a trust registered under the Indian Trusts Act 1982 or Charitable or Religious Act 1920 or under the corresponding State Act.The organization should have been in existence for a minimum of three years after registration.
- The organization should have experience in handling projects having focus on S &T.

Note: It may be noted that products developed from the project under SUTRA-PIC program should be certified by concerned agencies for quality control and compliance with standards. For example, Medicinal products should get certified by Ministry of AYUSH. Products developed under the program should conform to BIS or related standardization on quality control.

GUIDELINES, TERMS & CONDITIONS FOR FORMULATING PROPOSALS

Proposals should focus on specific aspects of identified problem, which can be addressed in a reasonable period of intervention and it should not exceed over three years. Project proposals should be submitted only through online portal http://onlinedst.gov.in/

GENERAL TERMS AND CONDITIONS:

1. Institutions/organization receiving funds for execution of the project would assume financial and legal administrative responsibility for execution of the project.
2. In case of multi-institutional project, the Principal Investigator (PI) must furnish formal agreement from the collaborating institutions/ scientists and proposal should clearly specify their role and functions with expected deliverables. Budget should be moderate with justification details in respect of each collaborating agency.
3. International travel is not permissible under a project.
4. The PI & Co-I should be able to devote adequate time to the project and should not handle more than three projects simultaneously. Project implementing agency/organization will be responsible in case of any legal dispute between the agency/organization and PI/Co-I/project staff. Funding agency will not be liable for such legal cases of disputes.
5. Staff recruited for a project should be paid as per the rules of the institute and guidelines of the Government of India.
6. For release of grant from Govt. of India, it is mandatory for the organization to register with central plan scheme and monitoring system (CPSMS), Office of Controller General of Accounts, Ministry of Finance. For details, please log on to: www.cga.nic.in.
7. The proposals would generally be evaluated considering demand of proposed solution and its novelty/potential superiority over existing options, technical feasibility, social acceptability, environmental soundness, stakeholder's involvement including community rooting. The technology solution proposed if any should necessarily be developed through indigenous research initiative and need to have been tested in lab environment and demonstrated in field at certain scale. DST at the behest of Expert Panel may introduce any other criteria considered to be critical for successful implementation of the project (S).
8. It is mandatory for Voluntary Organizations (VOs)/ Non-Governmental Organizations (NGOs) seeking grant from Central Government should register in NGO Darpan portal being maintained by NITI Aayog.
9. Regarding budget projections under Manpower head, DST's O.M. No. SEED/TIASN-2/002/2016 dated 20-12-2016 and O. M. No. SR/S9/Z-09/2012 dated 21-10-2014 available in DST's website (www.dst.gov.in) should be followed.

PERFORMA FOR SUBMISSION OF PROJECT PROPOSALS

Part I: General Information

1. Project Title (should be focused not exceeding 15 words):

2. i. Name of PI:

    ii. Name of Co-I:

3. Name of organization & place:

4. a. Type of organization:

Academic institution	
Research organization	
S&T Council	
S&T capable Voluntary Organization	
Panchayati Raj Institution (PRI)	
Krishi Vigyan Kendra	
Other (please specify)	

* Joint proposals with academic and/or research institutions will be encouraged.

5. Field of research proposal under SUTRA Program: (chose any one relevant to the proposal)

Uniqueness of Indigenous Cows	
Prime-products for Agricultural Applications	
Prime-products for Food and Nutrition	
Prime-products for Medicines and Health	
Prime-products for Utility Items	
Other (please specify)	

6. Whether your organization has been sanctioned projects by other central/state govt. deptt. or from foreign funding agencies in the past (up to 10 years)? If yes, provide details of completed and ongoing projects**:**

SN	Title of the project	File No.	Name of Division and funding agency	Date of completion/ status	Amount (Rs lakh)	Whether final UC/SE & project completion report has been submitted (if yes, mention date)

7. Whether the same or a similar proposal has been submitted to any other agency/funded for full or partial support? If yes, please give details. If sanctioned please enclose copy of sanction order.

S N.	Title of project proposal	Funding agency	Date of submission/sanction	Amount (Rs lakh)	Status

8. Whether project activities require any clearance from relevant authorities in respect of any environmental/legal/ethical issues? If yes, pl. provides supporting document.

Yes/No

9. Duration (months):

10. Cost (Rs. in Lakhs): Recurring _____; Non-recurring: _____

11. Bank Details for Electronic Transaction:

(As per approval of governing/executive body of the organization/institution)

Part II: Proposal Summary (Restricted to 3-4 pages only)

1. Project Title (Short &focused not exceeding 15 words):
2. Nature of project:
   (Pl. tick one or more boxes, as applicable)

Technology development (new product/process or up/down scaling of existing systems)	
Technology development & transfer (development of product/process followed by field adaptation trials, demonstrations & transfer of technology)	
Technology dissemination (dissemination of available technology for solution of identified problem)	
technology adaptation/optimization, demo and training	
Other (Please specify)	

3. Implementing Organization (s):

	Role & responsibility
a. Implementing Org.	
b. Collaborator(s)	

4. Name of PI, Co-I and Affiliation (Please enclose copies of certificate of highest Qualification):

i. PI	
Name	
Organization	
City (with pin code)	
Highest qualification & subject	
ii. Co-I	
Name	
Organization	
City (with pin code)	
Highest qualification & subject	

5. i. Statement of the Problem being proposed to be addressed:

ii. Suggested Solution:

6. Objectives (**Only 4-5 focused one that can be observed**, measured or clearly assessable):

i.
ii.
iii.

7. Methodology and Work Plan (Max. 250 words):
   i. State the methodology in a sequence of clearly defined steps leading to achievement of the stated objectives.

   ii. Phase wise Work plan of action with time line and deliverables in **tabular form**

8. Project Area:

Project Area: ☐Rural ☐Urban ☐ Both
Geographical Focus Area: Village(s)/urban locality:_____   Block/Taluka: _____   District: _____; State: _____
Project Area Profile (Give details along with a neatly drawn location map):

9. **Total Budget (Rs. in Lakhs):**
   i. Recurring Cost (Rs):
   ii. Non-Recurring Cost (Rs):

S. No.	Item	Budget			
		1stYr	2nd Yr	3rd Yr	Total
A	**Recurring** 1. Manpower 2. Consumables 3. Travel 4. Field testing, adaptive R&D, Demo/ Training expenses (if applicable)				

	5. Contingencies/Other costs				
	6. Institutional Overheads*				
	7. Any other item				
B	**Non-Recurring** Permanent equipment Construction of work shed/structures (Size) Fabrication of prototype equipment				
	Grand Total (A+B)				

10.   Project Duration: months

11.   Deliverables(the list below must correspond with and be derived from # 6 & # 7):

Deliverable	Mark √	Brief description
Product development/adaptation		
Process development/adaptation		
Technology package for development of the project area and local community		
Technology capability development, training & documentation (e.g. reports, papers, articles, technology manuals, patents)		
Scientific knowledge and/or data generation leading to technology development in future		
Other (Please specify)		

Part III - Technical Details

1. **Title**(Short & Focused not exceeding 15 words) :

2. I. **Statement of the problem**(200 words)
    i. State the main problem you seek to address:

    ii. Who has this problem, where does it occur?

    iii. How did you come to know of this, did the people who have problem approach you or you visualized it yourself?

    iv. Why is it important to solve it?

    II. **Technology gaps & Suggested solution** (150 words):

    (Describe how the proposal will lead to a novel and effective solution, **based on a scientifically and technically sound concept** and keeping in view the user needs and local availability of resources-**supported with baseline data)**

    i. Outline your idea or solution you plan to develop:

    ii. Did you think up the technological solution within your team or was it thought up in consultation with others (who):

3. **Review of Status** - (100 words):
    A) National level:

    B) International level:

4. **Objectives**(Only 4-5 focused that can be observed, measured or clearly assessable**):**

i.
ii.
iii.

5. **Methodology**(100 words):
    (*Please indicate clearly the standards/ parameters against which the product(s) would be evaluated. Also, please indicate the protocols to be followed for validation. Raw materials would be the products available from cow i.e. milk, dahi, curd, ghee, gaumutra and gobar, must be tried from at least 3 different sources (from statistical point of view) being natural products with large variation*)

6. **Work Plan** (150 words - **Phase wise work plan of action with time line and deliverablesin tabular form)**

7. **Environmental, Legal and Ethical Issues:**
   (Explain any environmental, legal and ethical compliance issues. Please mention how these will be addressed &enclose clearance certificate from concerned authorities if required)

8. **Deliverables** (the list below must correspond with and be derived from # 4, # 5& # 6. Please also indicate affordability of deliverables to the target beneficiaries):

Deliverable	Mark √	Brief description
Product development		
Process development		
Technology package development of the project area		
Technology capability development, training & documentation (e.g. reports, papers, articles, technology manuals, patents)		
Scientific knowledge and/or data generation leading to technology development in future		
Other (Please specify)		

9. Suggest measurable indicators (**10-12 tangible as well as non-tangible along with means of verification)** for monitoring effectiveness of project interventions in respect to the stated objectives and deliverables. The indices you choose must permit objective measurement and determination *vis-à-vis* time line during project cycle comparing with base line data/control:

S. No.	Indicators (as applicable)
1	
2	
3	
4	
5	
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10	
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20	

Part IV.   Budget Details

BUDGET ESTIMATES: SUMMARY

(Rs. in lakhs)

Sl.No.	Item	Budget			
		1st Yr	2nd Yr	3rd Yr	Total
A	**Recurring** 1. Manpower 2. Consumables 3. Travel 4. Field testing, adaptive R&D, Demo/Training programs (if applicable) 5. Contingencies/Other costs 6. Institutional Overheads*				
B	**Non-Recurring** Permanent equipment Construction of work shed/structures Fabrication of prototype equipment				
	Grand Total (A+B)				

7. Financial Year: April to March
8. It is essential to provide brief & adequate justification for each item of expenditure.

A. Recurring:

1. BUDGET FOR MANPOWER

Sl.No.	Designation	No.	Qualification & experience	Monthly emolument (Rs)	Budget (Rs. in lakhs)			
					1st Yr	2nd Yr	3rd Yr	Total

i.   Only NET/GATE qualified candidates can be appointed as Res. Associate/SRF/JRF.

ii. Funding agency would not entertain any request for hike in emolument of project staff during the project period.

iii. Limited funds may be allowed as 'Honorarium to Experts' for need-specific consultancy.

2. BUDGET FOR CONSUMABLES*

Sl.No.	Description of consumable	Qty./Yr	Budget (Rs. in lakhs)			
			1stYr	2ndYr	3rdYr	Total

* Includes items like chemicals, glasswares, supplies, seed, pesticides, fertilizers, raw materials for fabrication, stationery, etc.

3. BUDGET FOR TRAVEL

Sl.No.	Purpose	Budget (Rs. in lakhs)			
		1stYr	2ndYr	3rdYr	Total
1	Project logistics				
2	Field activities				
3	DST review meetings				

    i. International travel is not permitted

    ii. The project personnel shall exercise utmost austerity while traveling.

    iii. Please provide detailed justification for budget proposed under first two headings.

4. FIELD TESTING/ADAPTIVE R&D/DEMO/TRAININGS*

Sl.No.	Description of field testing/demos /trainings	No/Yr	Budget (Rs. in lakhs)			
			1stYr	2ndYr	3rdYr	Total

* Include material for technology field testing/adaptive R&D, demo, training manuals, training expenses for beneficiaries. **Note:** For capacity building, training gives details about the subject of training(s), no. of beneficiaries/training, duration of training days, cost /training).

5. BUDGET FOR CONTINGENCIES*

Sl.No.	Item	Qty./Yr	Budget (Rs. in lakhs)			
			1stYr	2ndYr	3rdYr	Total

* Includes items like computer time, secretarial assistance, documentation, cost of technology transfers/acquisitions (intellectual fees), lab/field trials, maintenance/servicing of equipment, incidental expenses, etc.

B. Non-Recurring:

BUDGET FOR PERMANENT EQUIPMENT/WORKSHED/STRUCTURES

Sl.No.	Equipment/Item details	Qty	Budget (Rs. in lakhs)
1			
2			
3			
4			

i.   Include installation charges, transport, taxes/duties/levies, etc. Please try to avail tax/duty exemptions as applicable to your institution/organization.

ii. Budgetary quotations will be required for permanent equipment (estimates, if the equipment is to be fabricated locally for prototype testing etc.) and other items under non-recurring head, once project is approved for financial support.

iii. Drawings/layouts, etc. prepared by authorized professionals/agencies should be submitted for proposed work shed/structures, if applicable, and supported by documents showing availability of required land along with consent letter from the owner (Panchayat/individual/Govt./etc.).

iv. Proper record should be maintained for the items procured under this Head.

Part V.Project Team

a.   Team Members:

	PI	Co-1	Co-I-2/ RA/Tech. or project Asst.	Field worker
Name				
Designation				
Organization				
Sex (M/F)				
Date of birth				
Address				
Phone, fax, email, mobile				
Whether drawing salary from any other source				

b.   Implementing Organization (& collaborators):

Name of the organization:		
Address:		
District:	State:	Pin:
Telephone with STD code:	Fax:	
Email:		
Website:		

Details of Organization	
Year of Establishment:	
Registration No & Date:	Valid up to:
FCRA Registration No & Date:	Valid up to:
PAN #: Bank Account #:	
NGO Darpan ID (for NGO)	

Chief Functionary:	
Annual budget in last financial year:	
Operational area (State, Dist.):	
Details of branch/unit offices:	
Total staff (Administrative & technical):	
Main R&D and science-society achievements during last three years:	
Years of association with DST/DBT/ICMR/CSIR/MNRE/DSIR/Ministry of Ayush as the case may be :	

c. **Nature of Implementing Organization (Mark √ in the box):**

Academic institution	
Research organization	
S&T Council or State established autonomous organization	
S&T capable Voluntary Organization, registered under Societies Registration Act (1860) or a State amendment thereof Indian Trust Act (1882) or Religious and Charitable Institutions Registration Act (1920)	
Institutions incorporated under the Companies Act, setup for non-profit objectives (e.g. under Section 25)	
Professional & industry Associations	
Private R&D Centre (recognized by DSIR)	
Panchayati Raj Institution (PRI)	
Krishi Vigyan Kendra	
Other (please specify)	

d. **Capability of the Organization(s):**
   I. Expertise available

	Impl. Org.
No. of full-time staff with professional qualifications	

No. of persons available as professional consultants	

II. Facilities/Assets/Equipment available

	Impl. Org.

III. Links with Outside Agencies:

(Please provide information on the linkages envisaged with outside agencies to solicit necessary inputs for project implementation)

a. Links with local bodies (Panchayats/RWAs/BDO/local cooperatives):

Name	Purpose & inputs expected

b. Links with voluntary organizations:

Name	Purpose & inputs expected

c. Links with S&T institutions/subject consultants:

Name	Purpose & inputs expected

d. Links with industry, banks/other financial institutions:

Name	Purpose & inputs expected

IV. Any Other Capability (please specify):

e. Whether the implementing organization and/or collaborators have previously worked in the proposed project area? If yes, please give details (project/activities and highlights of results/achievements, availability of any local office, infrastructure, etc.). If no, please mention strategy for working in this area.

f. Role & responsibility of collaborators:

	Role	Responsibility
Implementing Org.		
Collaborator		

ENDORSEMENT FROM THE HEAD OF INSTITUTION

(TO BE GIVEN ON LETTER HEAD)

PROJECTTITLE:_____

_____

_____

1. Certified that the Institute welcomes participation of Dr./Shri/Smt./Km. _____ as the Principal Investigator and Dr./Shri/Smt./Km. _____ as the Co-Investigator for the project and that in the unforeseen event of discontinuance by the Principal Investigator, the Co-Investigator will assume the responsibility for the fruitful completion of the project (after obtaining consent in advance from funding agency).
2. Certified 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 project.
3. Institute assures financial and other managerial responsibilities of the project.
4. Certified that the organization has never been blacklisted by any department of the State Government or Central Government.

Name and Signature of Head of Institution

Date: ………………

Place: ………….

REMARKS

In regard to research proposals emanating from scientific institutions/laboratories under various scientific departments the Head of the institution is required to provide a justification indicating clearly whether the research proposals falls in line with the normal research activities of the institution or not and if not, the scientific reasons which merit its consideration by funding agency.

CERTIFICATE FROM THE INVESTIGATOR

PROJECT TITLE: _____

_____

_____

1. We agree to abide by the terms and conditions of the funding agency (DST/DBT/ICMR/CSIR/MNRE/DSIR/Ministry of Ayush as the case may be) grant.
2. We did not submit this or a similar project proposal elsewhere for financial support.
3. We have explored and ensured that equipment and basic facilities will actually be available as and when required for the purpose of the project. We shall not request financial support under this project, for procurement of these items.
4. We undertake that spare time on permanent equipment will be made available to other users.
5. We have enclosed the following materials:

   ITEMS   NUMBER OF COPIES

   (a)   Endorsement from the Head of   One

         The Institution (on letter head)

   (b)   Copies of the proposals   2

   (c)   Registration certificate, Memorandum   One

         of association, rules and regulations of

         the institution, Audited Balance Sheet

         and annual report of previous three years.

Date: ………………   Name & Signature of   Name & Signature

                      Principal Investigator   of Co-Investigator(s)

Place: ………

PROFORMA FOR BIODATA OF INVESTIGATORS (P.I. & CO-I.)

A.   Name   B.   Date of Birth

C.   Institution   D.   Whether belongs to SC/ST

E.   Academic and professional career:

Academic career (From Graduation to highest qualification level indicating subject and area of specialization – Enclose copy of certificate of highest qualification):

Professional career:

F.   Award/Prize/Certificate etc. won by the investigator:

G.   Publication (Numbers only)

Books   Research Papers, reports   General articles

Patents   Others (please specify)

H.   (1)   List of completed and ongoing projects

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

(2) List of projects submitted

Sl. No.	Title of the project	Name of Organization	Status