

Volume -2

Study

On

Developing Indicators for Measuring Success of Research Projects

Supported & Catalyzed by:

GOVERNMENT OF INDIA
Ministry of Science & Technology
Department of Science & Technology
National Science & Technology
Management Information System
(NSTMIS)

Conducted by:



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the 1990s, the number of people in the world who are undernourished has increased from 600 million to 800 million.

There are a number of reasons for this increase. One of the main reasons is the rapid population growth in the developing countries. The number of people in the world is increasing at a rate of about 1.2% per year, and this is expected to continue for the next 50 years.

Another reason is the increasing demand for food. As the population grows, the demand for food increases. This is especially true in the developing countries, where the population is growing rapidly and the food supply is not keeping pace with the demand.

There are also a number of other factors that contribute to the increase in undernourishment. These include the increasing cost of food, the increasing demand for land, and the increasing demand for water.

The increasing cost of food is due to a number of factors, including the increasing cost of fertilizers and pesticides, the increasing cost of fuel, and the increasing cost of labor. The increasing demand for land is due to the increasing need for food and the increasing need for housing.

The increasing demand for water is due to the increasing need for irrigation and the increasing need for drinking water. The increasing demand for water is also due to the increasing need for industrial water.

The increasing demand for water is also due to the increasing need for electricity. The increasing demand for electricity is due to the increasing need for industrial production and the increasing need for domestic electricity.

The increasing demand for electricity is also due to the increasing need for transportation. The increasing demand for transportation is due to the increasing need for goods and services and the increasing need for people to travel.

The increasing demand for transportation is also due to the increasing need for communication. The increasing demand for communication is due to the increasing need for information and the increasing need for people to stay in touch.

The increasing demand for communication is also due to the increasing need for education. The increasing demand for education is due to the increasing need for a skilled workforce and the increasing need for people to improve their lives.

The increasing demand for education is also due to the increasing need for health care. The increasing demand for health care is due to the increasing need for people to live longer and the increasing need for people to be healthier.

The increasing demand for health care is also due to the increasing need for social services. The increasing demand for social services is due to the increasing need for people to have a better quality of life and the increasing need for people to be able to take care of themselves.

The increasing demand for social services is also due to the increasing need for housing. The increasing demand for housing is due to the increasing need for people to have a place to live and the increasing need for people to have a better quality of life.

The increasing demand for housing is also due to the increasing need for transportation. The increasing demand for transportation is due to the increasing need for people to be able to get to work and the increasing need for people to be able to get to school.

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MONITORING & EVALUATION SYSTEM

INTRODUCTION

**HIERARCHY OF VARIOUS STAGES
OF RESEARCH PROJECT LIFE CYCLE**

FLOW DIAGRAM OF RESEARCH PROJECT

DOCUMENTS FOR PI

**ANNEXURE -1, ANNEXURE -1A & 1B
FORMAT -A, FORM 01 TO 03, FORMAT -B,
FORMAT -C, FORMAT -D, FORM 04 & 05**

DOCUMENTS FOR FUNDING AGENCY

**FORM 06, FORMAT - E, APPENDIX, FORMAT -F,
FORMAT -G, FORM 07 & 08**

MONITORING & EVALUATION SYSTEM

1.0 INTRODUCTION

Continuous Monitoring & Evaluation is very important for the success of any research project. A close watch has to be kept at all stages to ensure that the committed objectives are achieved and that the research project is a success. With this objective in view, as a part of this study, we held 1:1 meetings with leading R&D experts in the country from different organizations and also organized five Brain Storming Sessions (BSSs). As a result study of various secondary literature and these discussions the main *thrust points*, which emerged for the various stages of research project life cycle are explained in the form of a hierarchy (*Table -1 below*) and also flow diagram of research project—various dimensions (*Diagram-1 below*). This mechanism would effectively assess research efforts against well-defined goals and avoid duplication of efforts. Hierarchy has been designed to evaluate and monitor various activities of research projects in terms of **committed targets, achieved or not, if not, the reasons and the steps taken by the PI to achieve the committed targets**. It has been designed to monitor and evaluate information on continuous basis during the entire research project life cycle i.e. mid term and upto the completion of the project. This hierarchy encompasses monitoring and evaluation as an important activity and it provides scope for mid term corrections for the ultimate success of the research project. Evaluation on the other hand, in particular, is useful for future planning also by the decision makers. Hierarchy also outlines the entire process of moving downstream along the research continuum from the research component to the final destination of a useful outcome and its impacts & benefits particularly Scientific and Technological.

2.0 HIERARCHY OF VARIOUS STAGES OF RESEARCH PROJECT LIFE CYCLE

COMPONENT		MEANS	FOCUS
A. <u>RESEARCH PROJECT PROPOSAL SUBMISSION STAGE</u>			
1.	Submission of research proposal	Summary Proposal, Proposal & Researchers Qualifications & Experience format <u>Form 01, 02 & 03</u>	<ul style="list-style-type: none"> ☞ Clarity of Objectives ☞ Deliverables ☞ End User Identification ☞ Identification of Risks / ☞ Uncertainties by P I ☞ Research Plan (PERT/ CPM) ☞ Achievable Milestones ☞ Beneficiary of Research ☞ Outcome
2	Evaluation of proposal by Funding Agency Experts / Peers	Expert review format <u>Form 06</u>	<ul style="list-style-type: none"> ☞ Clarity of objectives ☞ Clarity of deliverables ☞ Evaluation of Risks/ uncertainties ☞ Skills & Capabilities of P I, Co.P.I & Institute ☞ Grading of Proposal
3.	Presentation by P I before PAC (Project Advisory Committee)	Discussions by PAC members	<ul style="list-style-type: none"> ☞ How well defined are the objectives? ☞ Is there any industry participation? ☞ Is methodology sharp & Clear? ☞ Is Budget justified?
4.	Sanction by Funding Agency	Release of Funds	<ul style="list-style-type: none"> ☞ Start of work by PI

Table –1 contd.

B. <u>RESEARCH PROJECT IMPLEMENTATION STAGE</u>			
5.	Mid Term Progress reviews	Self - assessment by PI Form 04 and reviews by Funding Agency Experts Form 07	<ul style="list-style-type: none"> ☞ Meeting the committed Objectives ☞ Responsibility of Institute head ☞ Monitoring by PERT/CPM ☞ Log books ☞ Visit by experts to place of work ☞ Assessing extent of success at this stage ☞ How effectively PI put in his efforts? ☞ Deviations –Why / Alternate plan of action
C. <u>RESEARCH PROJECT COMPLETION STAGE</u>			
6.	Final Completion Report	Final Self - assessment by PI Form 05 and Review by Funding Agency Experts Form 08	<ul style="list-style-type: none"> ☞ Meeting the committed objectives fully ☞ Assessing extent of success ☞ How effectively PI put in his efforts? ☞ Deviations –Why? ☞ Indicators of success & measurement of research outcome (S&T). ☞ Measurement of efforts put in by PI ☞ Grading of final R&D outcome by funding agency

Table –1

3.0 FLOW DIAGRAM OF RESEARCH PROJECT (MONITORING & EVALUATION—VARIOUS DIMENSIONS)

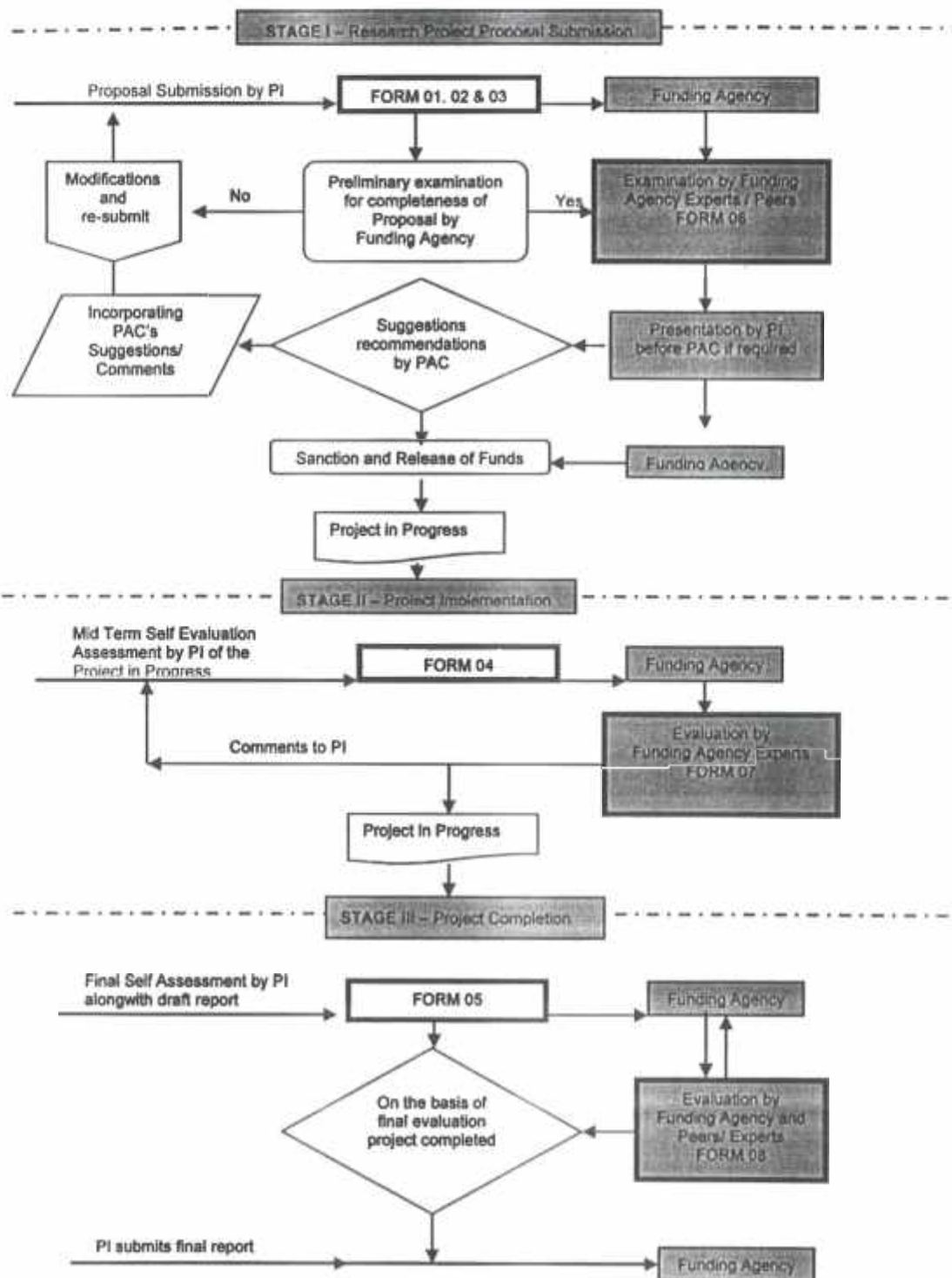


Diagram-1

4.0 DOCUMENTS / FORMATS

Various documents / formats have been designed and developed to ensure smooth implementation of the research project and to monitor various activities in terms of the committed targets and targets achieved.

List of various documents / forms developed is given below and annexed in this volume:-

A. Documents for Project Investigator (PI)

Annexure -1 : Important Instructions to the applicants

Annexure -1A : PERT Chart for an illustrative network for 52 weeks work plan

Annexure - 1B: Format of Log-book

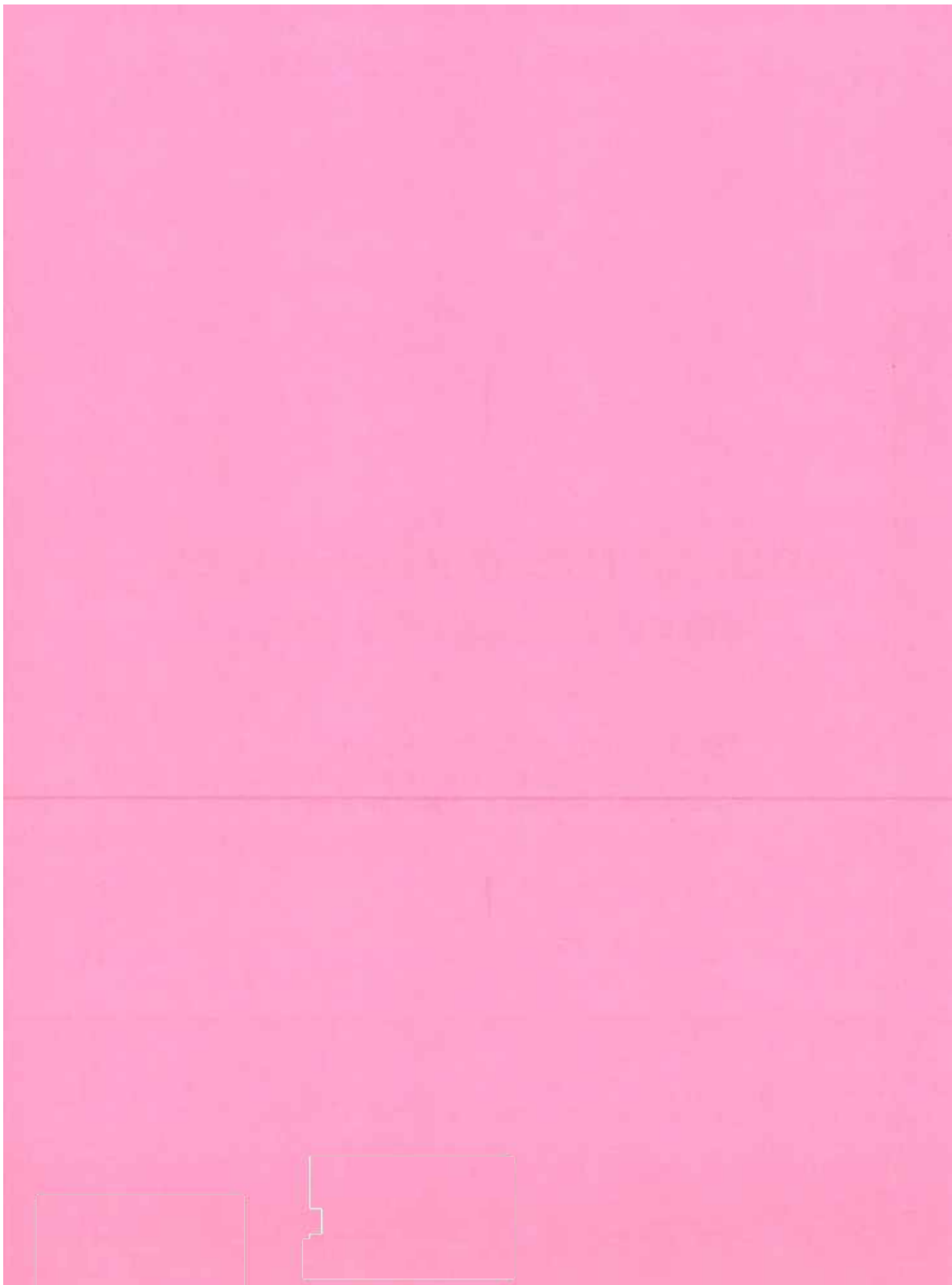
- Format -A :** Proposal Covering Letter to be given by the P I along with the proposal
- Form 01 :** Project Summary
- Form 02 :** Research Proposal
- Form 03 :** Researchers Background & Qualifications
- Format -B :** Certificate from the head of the institution
- Format -C :** Check List
- Format -D :** Acknowledgement to be issued by the Funding Agency on receipt of the proposal from PI
- Form 04 :** Mid Term Evaluation of Research Project
--- *Self assessment by PI*
- Form 05 :** Final Evaluation of Research Project
--- *Self assessment by PI*

B. Documents for Funding Agency

- Form 06 :** Project Proposal Evaluation by Funding Agency Experts
- Format -E :** Project Sanction Letter alongwith terms & conditions of grant (Appendix) to be issued by Funding Agency
- Format -F :** Bond
- Format -G :** Grant Utilization Certificate
- Form 07 :** Mid Term Evaluation of Research Project by Funding Agency Experts
- Form 08 :** Final Evaluation of Research Project by Funding Agency Experts

DOCUMENTS FOR PROJECT INVESTIGATOR (PI)

**ANNEXURE -1, ANNEXURE -1A & 1B
FORMAT -A, FORM 01 TO 03, FORMAT -B,
FORMAT -C, FORMAT -D, FORM 04 & 05**



IMPORTANT INSTRUCTIONS TO APPLICANTS

[Full Compliance with these instructions is essential. If it is observed at any stage that these are not complied with, the project will be cancelled]

Note: Applicants must read the instructions given below very carefully before submitting the proposal.

A. GENERAL

- **Copies of Research Proposal etc.:** Please send _____ copies of the research proposal in the prescribed formats (**FORM 01 to 03**) along with the covering letter to the funding agency. Also send three copies of the Acknowledgement letter and _____ copies of the certificate from the Head of the Institution / organization of the Project Investigator (PI) and Co-Project Investigator (Co-PI).
- **Completeness of the proposal:** The application for the research proposal should be typed and complete in all respects. Incomplete proposals will not be accepted.
- **Procedure in case PI leaves the original Institute:** For smooth implementation of the sanctioned project, funding agency insists that the project, in addition to the PI, should also have a Co-PI from the same Department / Institution. The Co-PI is expected to ensure that the project work is carried out even when the PI is on leave / deputation. In case of long leave / deputation, PI must inform funding agency sufficiently in advance so that correspondence can be addressed to the Co-PI directly.
 - ☞ *Institute head must first assess that the Co-PI identified in the original proposal is competent to take over as PI. If yes, a new Co-PI may be identified and his details submitted to the funding agency as per **FORM 03** for their approval. Otherwise following procedure may be followed:-*
 - ✱ *The new institute Head must agree that the research work will continue and agree for the transfer. New Institute Head must sign the same certificate which was signed by the original institute head at the time of submission of the research proposal to the funding agency. This certificate must be submitted to the funding agency while seeking approval of change along with the profile of the new institute as per original performa (**Form 3, B1 or B2 as applicable**).*
 - ✱ *Original institute head must also agree for transfer of funds to the new institute*
 - ✱ *Funding Agency must agree to the transfer, but it will first assess the new institutes' track record in meeting the requirements of the research project.*
- **Multi Centre Studies:** Funding agency can consider projects based on multi-center studies also. For such research project proposals, the Co-PI can be drawn from a institution other than that of the PI. In such cases, funds required by the Co-PI should be shown separately using the same format. If the project is approved, funding agency will sanction funds to PI and Co-PI separately and send the grants to their respective institutions.

- ⊙ **IPR Indemnification** PI / Co-PI / Institute Head will keep the funding agency *indemnified* all the time against any IPR infringements and all other related IPR issues.
- ⊙ **Processing of Applications:** All applications received will be processed. Based on the comments from the experts / referees, the short listed candidates may be invited for a presentation before a Project Advisory Committee (PAC) meeting. Based on the recommendations of the PAC, the proposal may be recommended for sanction.
- ⊙ **Release of Funds:** Suitable funds are released along with the issue of initial sanction. For the subsequent period, PI is requested to submit progress reports in the prescribed format [FORM 04] and final completion report [FORM 05]. For evaluation of progress of project, PI may also be called for a presentation along with the photocopies of the log-books showing the progress of work and if the progress is found satisfactory, a sanction letter renewing the project will be issued. Audited "Statement of Accounts" along with "Utilization Certificate" etc. in respect of the funds received in the previous period and to claim the sanctioned funds for the next period be submitted alongwith the request for release of next installment of payment.
- ⊙ **Local Project Advisory Committee:** After the approval of the project, PI may propose eight to ten names of the experts as the members of the Local Project Advisory Committee (LPAC). These experts will guide him from time to time. They should be renowned experts from the relevant fields of proposed research project.

B. INSTRUCTIONS FOR FILLING THE RESEARCH PROPOSAL FORM

S.No. of the instructions	Form No.		Description
	Sr. No. of the research proposal form	Page No. of the research proposal form	
01.	FORM -01		Project Summary Form
	01 – 08	27	Project Summary should reflect the complete information of the project in a concise format. It should be filled, preferably, only after completing all other sections of the proposal. Key words Maximum _____ words may be used for indexing the project
02.	FORM -02		Project Research Proposal Form
	01-03	28 - 29	Objective(s) must be clearly defined. It should be target oriented, realistic, time bound, achievable, measurable, identifiable and in terms of deliverables. Any industry / marketing tie-up / end user identification and research outcome potential in terms of commercial / marketing / technological advancements may be highlighted in the proposal.
03.	04 – 05	30 - 31	State of the Art – National/ International National / International status of the proposed research in the chosen area / similar area should be highlighted in the proposal referring to various refereed national / international journals and other printed literature.

S.No. of the instructions	Form No.		Description
	Sr. No. of the research proposal form	Page No. of the research proposal form	
04.	06	32	<p>Motivation of the PI</p> <p>PI must highlight the source of his inspiration, which motivated him to submit the research project proposal.</p>
05.	07	32 - 33	<p>Novelty of project</p> <p>PI must clearly state the novelty of the project in terms of differentiation from similar research being undertaken elsewhere nationally and internationally. PI must highlight any industry/ marketing tie-ups at the proposal stage.</p>
06.	08 – 09	33 - 34	<p>Weakest link and identification of Risks / Uncertainties during all the stages of Research Project Life Cycle.</p> <p>PI must clearly bring out in the proposal, the risks / uncertainties anticipated by him in executing the research project. Each risk should be given a risk rating as H- (High Risk), S – (Substantial Risk), M- (Moderest) and N-(No Risk). Further for each risk factor, PI must propose his strategy / action plan to minimize the risk i.e. risk minimization measures. In the end, the overall risk rating of the research proposal should also be given.(H/S/M/N)</p>
07.	10	35	<p>Reasons for Accepting the Research Project Proposal</p> <p>PI must clearly bring out the <i>core competencies</i> of his research proposal highlighting various reasons why funding agency should accept the proposal.</p>
08.	11	35	<p>Research Outcome</p> <p>In case the research outcome is resulting in more than one impact factors, the resultant impact factors must be <i>prioritized</i> as I, II and III. In order to make the objectives focused, more than 3 priorities are not permitted.</p>
09.	12	36	<p>Methodology</p> <p>It should be sharp and well defined and should highlight the various steps in details which would be undertaken to meet the objectives. Simply do not just give a list of points</p>
10.	13	37	<p>Yearly Research Plan</p> <p>Describe research work plan in details with deliverables, atleast quarter wise for each year of the project life cycle.</p> <p>Work Plan should be in a network form i.e. inter relation of various activities must be shown. This will facilitate effective scheduling and monitoring. Various Milestones and Critical Path to be clearly identified. An illustrative network for 52 weeks work plan is given in <u>Annexure –A.</u></p>
11.	14	38	<p>Referees</p> <p>PI is encouraged to provide name and affiliation of not more than 5 potential referees for your research project. PI may also provide name(s) of experts / referees to whom PI would not prefer project to be referred for evaluation for example, conflict of interest reasons. However, the choice of final referees in all cases; will be made by the funding agency.</p>

S.No. of the instructions	Sr. No. of the research proposal form	Page No. of the research proposal form	Description
12.	15 - 17	39 - 41	<p>List of Current & Previous Projects</p> <p>A complete list of all the current & previous research projects being handled by PI and Co-PI is required. It is not enough to give the list of the projects being handled by the institute of the PI /Co-PI. Funding agency needs the list of all projects in which each of the PI / Co-PI are directly involved. Also give details of all the other on going research projects being executed at your institute.</p>
13.	18 - 19	42 - 44	<p>Budget</p> <p>Consolidated amounts need to be furnished under overall budget summary. Budget details like Manpower, Equipment Purchases, and Recurring Expenses etc. along with budget justifications are to be furnished separately in the relevant columns provided. After the financial sanction is issued, it may be noted that transfer of funds from one head of a/c to another is normally not permitted.</p> <p>Manpower</p> <p>Wherever an institute / organization have its own norms for recruitment of manpower, it may follow them. In such a case, PI should enclose a copy of the norms along with the project proposal.</p> <p>Equipment</p> <p>Brief specifications of the equipment to be procured, possible suppliers and documents in support of the estimated cost (e.g. quotations, performa-invoice etc.) are required to be furnished. This will facilitate early decision making.</p> <p>Travel</p> <p>The entitlement of mode (Rail/Air) and class of travel will be governed by the rules of the institution to which the PI and Co-PI belong. In such a case, PI should enclose a copy of the norms along with the project proposal.</p> <p>Contingencies</p> <p>The amount that can be sanctioned under this "Head" will vary depending on the type of project. Under the Head 'Contingency', the funds can be utilized to meet the expenditure towards advertisement and selection related expenses for the staff etc. This can also be used for purchase of urgently required laboratory equipment or for buying books, but books so purchased should be deposited in the library of the Institute / Organization and issued as per the rules of the library.</p> <p>Overheads</p> <p>These are meant to cover the cost of infrastructure utilities such as water, electricity, communication and administrative services provided by the University / Institute/ Organization. Each institute can use its discretion to form regulations to use the funds under this head.</p>

S.No. of the instructions	Form No.		Description
	Sr. No. of the research proposal form	Page No. of the research proposal form	
14.	20	45 - 46	<p>Log-Books</p> <p>PI shall maintain log-books of each activity. Log-books should be bound and each page serially numbered. On weekly basis, it should be signed by PI / Co-PI and by the Institute Head. First page of the log book should read as follows:-</p> <p style="text-align: center;"><i><u>*Certificate</u></i></p> <p><i>This is certified that the work reported in this log-book embodies faithful records of original research work carried at the institute under our guidance and supervision. This Log-book contains ___ pages and is for the period _____ to _____. No page is removed from the Log-book".</i></p> <p><i>Signature of PI</i> <i>Signature of Institute Head</i></p> <p><i>Place:</i> <i>Date.....</i>"</p> <p>Detailed formats for recording various activities under the research project are enclosed as Annexure – B</p>
15.	21	47	<p>In-house Monitoring System</p> <p>PI must give in the research proposal, a detailed in-house monitoring system that shall be in place during the project life cycle. The system must clearly outline the responsibilities of the Institute Head and Co-PI. Further for each Key Performance Indicators (deliverables), a detailed monitoring and evaluation system with critical assumptions details is given in the research proposal.</p>
16.	22	48	<p>Infrastructure Facilities</p> <p>Details of all the infrastructure facilities must be given in the proposal, highlighting their usefulness / applicability for the proposed research project.</p>
17.			<p>FORM -03</p> <p>Researchers Background & Qualifications</p> <p>All the necessary details in terms of skills / capabilities and previous track records of the PI / Co-PI/ Institute/ R&D Organization should be highlighted, that will be useful and relevant to the proposed research project. Under publications, only high quality important publications that are relevant to the area of the proposed research project should be indicated.</p>
	All	A, B-1 & B-2 49 - 54	
18.			<p>FORM 04 & 05</p> <p>Monitoring & Evaluation (M&E)</p> <p>M&E has been designed on self assessment basis to evaluate and monitor various activities of research project in terms of committed targets, achieved or not, if not, the reasons and the steps taken by the PI to achieve the committed targets. It has been designed to monitor and evaluate information on continuous basis during the entire research project life cycle i.e., quarterly, mid term and annual basis upto the completion of the project. This encompasses monitoring and evaluation as an important activity and it provides scope for mid term corrections for the ultimate success of the research project. M&E also outlines the entire process of moving downstream along the research continuum from the research component to the final destination of a useful outcome and its impacts & benefits particularly Scientific and Technological.</p>
	All	58 - 67 & 68 - 77	

(PERT CHART)
TYPICAL NETWORK FOR 52 WEEK'S RESEARCH PROJECT

Nomenclature used:-

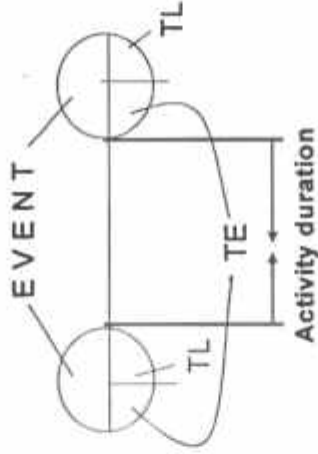
TE -Earliest Time TL - Latest Time TE-TL = Float / Slack HP - Hold Point (Milestones)

- Forward

↓ ↓

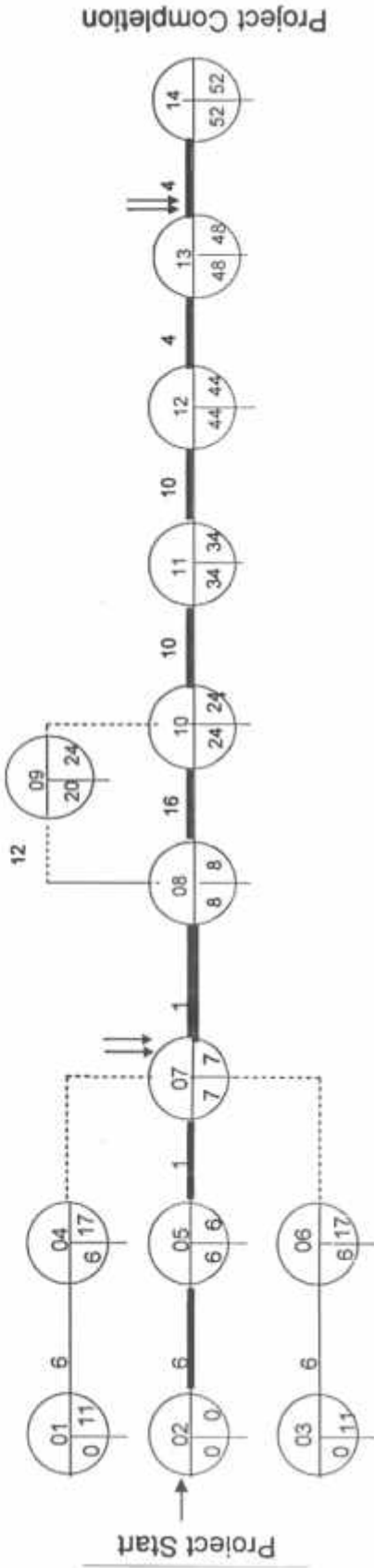
----- Interlinkages

———— Critical Path



$$TE = (a + 4b + c) / 6$$

Where a = optimum time
 b = most likely time
 c = pessimistic time



S.No.	Activity Number	Activity Duration in Weeks	Activities	Remarks
1.	01 - 04	6	Finalization of Universe	} Deliverable 1
2.	02 - 05	6	Identification and Finalization of Sample	
3.	03 - 06	6	Preparation of Questionnaire	
4.	05 - 07	1	1 st Meeting of LPAC (H.P.) ↓ ↓	
5.	07 - 08	1	Mailing of Questionnaire	Deliverable 2
6.	08 - 10	16	Field Visits for Data Collection	Deliverable 3
7.	08 - 09	12	Experiments & Tests	-----
8.	10 - 11	10	Final Tests & Experiments based on field data.	Deliverable 4
9.	11 - 12	10	Completion of Data Feeding & Analysis	Deliverable 5
10.	12 - 13	4	Checking & Draft Report	Deliverable 6
11.			2 nd Meeting of LPAC (H.P.) ↓ ↓	
12.	13 - 14	4	Final Report	Deliverable 7

FORMAT OF LOG BOOK

[To be filled in by the PI and sent along with the quarterly/ mid term / annual / final progress reports.]

Week No. _____ Date from _____ to _____

Project Name : _____

Name of the Project Investigator : _____

Name of the Institute/ organization : _____

(A) Experiments / Tests to be conducted

S.No.	Activity* (Give brief details)	Number* of hours planned	Number of hours actually utilized			Remarks	Signature
			Start Time	End Time	Actual hours used		
1.	Experiments						
2.	Tests						

* This should be same as given in the research project proposal, S.No. 20.

Performed by & date

Verified by & date

Reviewed by & date

(B) Equipment Usage

S. No.	*Brief Description of the Equipment Used	*Purpose	*Hrs. Planned	Hrs. Actually Used

** This should be same as per details given in the research proposal Sr. No. 20.*

Used by & date

Verified by & date

Reviewed by & date

(C) Visits

S. No.	* Number of Visits Planned	Visits actually undertaken
1.	Data Collection	
2.	Meetings	

** This should be same as per details given in the research proposal Sr. No. 20*

Undertaken by & date

Verified by & date

Reviewed by & date

PROJECT PROPOSAL COVERING LETTER

[To be filled in by the Project Investigator on the Institute/ organization letter head]

Ref No.

Date:

To

┌

└

Dear Sir,

We submit herewith _____ hard copies and a CD (PDF Format) of the Research Proposal entitled
.....
for your kind consideration for funding. We also enclose herewith the requisite certificate from the head of the institution/ organization in the format specified. We confirm that if the Research Proposal is accepted, we shall abide by all the "terms, conditions and instructions" stipulated and shall execute the project accordingly.

Project Investigator
Signature

Co-Project Investigator
Signature

Head of the Institute/ Organisation
Signature

PROJECT SUMMARY FORM*[To be filled in by the Project Investigator]*Research area: **Applied / Up-scaling***[Please see instruction – Sr. No. 01 Page No. 17]**[Please tick mark (✓) the appropriate]*1. **Project Title:**2. **Project Key Words:**3. **Institute:**

[Where the work will be carried out.]

(With name, address, telephone, fax, e-mail etc.)

4. **Head of the Institute:**

(With name, designation, address, telephone, fax, e-mail etc.)

5. **Project Investigator (PI) :**

(With name, designation, address, telephone, fax, e-mail etc.)

6. **Co-Project Investigator (Co-PI):**

(With full name, designation, address, phone, fax, e-mail etc.)

7. **Total Project Cost:**

(In Indian Rupees)

8. **Total Project Duration:**

(In months)

Project Investigator
SignatureCo-Project Investigator
SignatureHead of the Institution/ Organisation
Signature**Place:****Date:**

PROJECT RESEARCH PROPOSAL FORM*[To be filled in by the Project Investigator]*Research area: *Applied / Up-scaling**[Please tick mark (✓) the appropriate]***Please give detailed Research Proposal description under the following heads:-****[Attach extra sheets wherever required]****01. Objective(s) of the project:***[Please see instruction – Sr. No. 02 Page No. 17]*

02. Identify the deliverables:

[Please see instruction – Sr. No. 02 Page No. 17]

03. What are the potential applications of the research outcome? Identify end user:

[Please see instruction – Sr. No. 02 Page No. 17]

Potential of the Research Outcome	End User
<input type="radio"/> Commercial & Marketing	
<input type="radio"/> Technological Advancements	

Potential of the Research Outcome	End User
<input type="radio"/> Others (Please specify)	

04. State of the Art (With relevant references from major national journals) – National status including details of cost & time.

[Please see instruction – Sr. No. 03 Page No. 17]

* Directly in the chosen area

* In the similar area

05. State of the Art (with relevant references from major International Journals) – International status including details of cost & time.

[Please see instruction – Sr. No. 03 Page No. 17]

* Directly in the chosen area

* In the similar area

06. What is the source of motivation of the PI for submitting the research proposal?

[Please see instruction – Sr. No. 04 Page No. 18]

07. What is the Novelty of the Project?

[Please see instruction – Sr. No. 05 Page No. 18]

List FOUR Strengths of the research proposal :-

a.

b.

c.

d.

List FOUR Weaknesses of the proposal :-

a.

b.

c.

d.

08. Please bring out the weakest link of the research proposal.

[Please see instruction –Sr. No. 06 Page No. 18]

09. Identify the risks / uncertainties during all stages of the research project life cycle in the following format and rate them as High Risk (H), Substantial Risk (S), Moderest Risk (M) and No Risk (N).

[Please see instruction – Sr. No. 06 Page No. 18]

Risk	Risk Rating	Risk Minimization Measures
Overall Risk Rating (H/S/M/N)		

10. Give reasons why your research proposal should be accepted?

[Please see instruction – Sr. No. 07 Page No. 18]

11. The Research outcome will result in: -

[Please see instruction – Sr. No. 08 Page No. 18]

[Please tick mark (✓) the appropriate box; but not more than three areas (Impact Factors) in any case and prioritize them as I, II & III]

- Commerlization & Marketing
- Consultancy
- Cost Saving
- H R Development like Ph.D. Generated, New Teaching Methodologies
- Import Substitution
- Improvement in any existing Process
- Industrial Application / Industrial tie up
- Innovation & Creativity
- Laboratory Development
- Linkages with national Priorities, Societal Applications / Socio Economic Benefits
- New e-Applications
- Patents
- Process Development
- Product Development-
- Publications / Citations / Technical reports
- Technology Development
- Technology Transfer
- Any others (Please specify.....)

12. Methodology:

[Please see instruction – Sr. No. 09 Page No. 18]

Provide sufficient detailed description of your methodology. Please do not simply make a list of activities:

13. Yearly Research Plan:

[Please see instruction – Sr. No. 10 Page No. 18]

(a) Duration of the Project: _____ Months

(b) Please indicate the approximate number of man-months during a year that will be devoted in the research project by Project Investigator and Co-Project Investigator.

	Man –months		
	I yr	II yr	III yr
Project Investigator			
Co-Project Investigator			

(c) Outline various activities of research project life cycle giving duration of each activity (Attach a Network). Indicate on the net work, mile stones, identifiable / tangible outputs at the conclusion of each activity in line with the objective (s) of the research proposal.

S.No.	Activities (e.g. questionnaire preparation)	Duration of activities in weeks (e.g. weeks 2-4)

14. Please propose ____ referees to whom your research proposal should be sent for evaluation (Do not propose more than five referees) with their complete contact details including e-mail. Please also give name(s) and contact details of five referees to whom you would not like that the research proposal should be sent, in your opinion, for reasons of conflict of interest etc. :

[Please see instruction – Sr. No. 11 Page No. 18]

* Research proposal should be sent

* Research proposal should not be sent

15. List all projects that are supported by this funding agency or any other funding agency in which PI is actively participating:

[Please see instruction – Sr. No. 12 Page No. 19]

a. Pervious Projects

S.No.	Title of the project	Total cost	%age of time spent by PI on the project	Funding Agency	Present status

b. Projects in the current financial year

S.No.	Title of the project	Total cost	%age of time spent by PI on the project	Funding Agency	Present status

16. List all projects that are supported by this funding agency or any other funding agency in which Co-PI is actively participating:

[Please see instruction – Sr. No. 12 Page No. 19]

a. Previous Projects

S.No.	Title of the project	Total cost	%age of time spent by Co-PI on the project	Funding Agency	Present status

b. Projects in the current financial year

S.No.	Title of the project	Total cost	%age of time spent by Co-PI on the project	Funding Agency	Present status

17. Describe with details other ongoing projects at your institution related to the area of this research project proposal:

[Please see instruction – Sr. No. 12 Page No. 19]

S.No.	Title of the project	Total cost (Rupees)	Funding Agency	Present status	Name & Designation of Project Investigator

18. Overall Budget Summary (Rupees)

[Please see instruction – Sr. No. 13 Page No. 19]

Description	1 st year	2 nd year	3 rd year	Total
a) Manpower				
b) Equipment				
c) Recurring Expenses				
d) Sub-Total (a+b+c)				
e) Contingency & Overheads (%age of d)				
f) Sub-Total (d + e)				
g) Grand Total (f & g)				

19. Detailed Budget Estimates:

[Please see instruction – Sr. No. 13 Page No 19]

a) Manpower--Salaries

Designation	Nos.	Rate per month (Rs)	1 st Year (Rs.)	2 nd Year (Rs.)	3rd Year (Rs.)	Detailed Justification
Sub Total (a) – Year wise						
Total Manpower			Rs.			

b) Purchase of Equipment (Give details year wise)

S.No.	Description of equipment	Nos.	Estimated cost			Detailed justification
			In foreign* Currency	Exchange* Rate	Cost in Rs.	
1st Year						
Sub Total – 1st year						
2nd Year						
Sub Total – 2nd year						
3rd Year						
Sub Total – 3rd year						
Total Purchase of Equipment (in Rupees)						

* To be given only for imported equipment if any.

c) Recurring Expenses

S.No.	Details	1 st Year (Rs.)	2 nd Year (Rs.)	3 rd Year (Rs.)	Detailed Justification
1.	Cost of consumables (Pl. specify)				
2.	Cost of outstation travel, boarding & lodging				
3.	Other miscellaneous expenses (Please state what is included)				
Sub Total (c)					
Total Recurring Expenses		Rs.			

20. Give below the details which would facilitate the recording of various activities in the log books during the implementation of the research project.

(These details should be given separately for each year and tick ✓ the appropriate year i.e. 1st Year / 2nd Year / 3rd Year)

[Please see instruction – Sr. No. 14 Page No. 20]

S.No.	Activity	Quarter			
		1 st	2 nd	3 rd	4 th
		Nos. of hrs. required	Nos. of hrs. required	Nos. of hrs. required	Nos. of hrs. required
1.	Experiments to be conducted -- Brief details of experiment along with the name of researcher(s). (i) (ii) (iii).				
2.	Tests to be conducted -- Brief details of test along with the name of researcher(s). (i) (ii) (iii)				

21. In-house Monitoring System

[Please see instruction – Sr. No. 15 Page No. 20]

- (a) Give a detailed In-house monitoring system that shall be followed by the PI for the execution of the project:-

- (b) Over all details of the In House Monitoring System

S.No	Objectives	Key Performance Indicators (Deliverables)	Monitoring & Evaluation System	Critical Assumptions

22. Infrastructure facilities

[Please see instruction – Sr. No. 16 Page No. 20]

List below the details of existing infrastructure facilities of the institute that shall be used for this project.

a. Office Space _____ sq.ft.

b. Office automation set-up like: **Nos.**

- Photocopier
- Electrical Generator
- Computers
- Printers
- UPS
- Scanner

c. Communication System like: **Nos.**

- Land line Phones
- EPABX
- Fax
- Modem
- LAN / Networking Yes No
- Internet Yes No

d. Laboratory details where experiments / tests will be conducted

e. Details of other existing equipment to be used for the Project

f. Any other details (Pl. Specify):-

RESEARCHERS BACKGROUND & QUALIFICATIONS FORM

[To be filled in by the Project Investigator and Co-Project Investigator separately]

[Attach extra sheets wherever required]

A. Project Investigator / Co- Project Investigator

[Please see instruction – Sr. No. 17 Page No. 20]

01.	Name
------------	-------------

--	--

02.	Sex
------------	------------

Male <input type="checkbox"/>	Female <input type="checkbox"/>
-------------------------------	---------------------------------

03.	Date of Birth
------------	----------------------

<table border="1" style="width: 100%; height: 30px; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> </table> <p style="text-align: center; margin-top: 5px;">(Date)</p>			<table border="1" style="width: 100%; height: 30px; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> </table> <p style="text-align: center; margin-top: 5px;">(Month)</p>			<table border="1" style="width: 100%; height: 30px; border-collapse: collapse;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> </table> <p style="text-align: center; margin-top: 5px;">(Year)</p>				

04.	Highest Qualifications Achieved
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--	--

05.	Name of Institution/ Organization
------------	--

--	--

06.	Present Designation
------------	----------------------------

--	--

07.	Residential Address
------------	----------------------------

--	--

Phone: With code	(O)	(R)
Mobile:		
Fax: With code		
E-mail:		

08.	Areas of specialization
------------	--------------------------------

a.	
b.	
c.	

09. Give an up-to-date summary of your scholarly knowledge in the field of the research proposal.

10. PI/Co-PI achievements during the last 3 years. (Attach details of best five in each category, which are relevant to the present research area)

I	Awards	a. Indian <input type="text"/> <input type="text"/>	b. Foreign <input type="text"/> <input type="text"/>
II	Publications	Numbers	
		National	International
	a. Books	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
	b. Journals	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
	c. Conference proceedings	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
	d. Technical reports	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
	e. Citations	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
III	Patents		
	a. Applied for	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
	b. Patents obtained	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>

11. Any other details which you may like to give related with the present research field to highlight your skills & capabilities

B-1. Academic Institution Profile

[Please see instruction – Sr. No. 17 Page No. 20]

01.	Institution Name
------------	-------------------------

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02.	Name of the Head of the institute
------------	--

--

03.	Designation
------------	--------------------

--

04.	Address
------------	----------------

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Phone: With code Fax: With code E-mail: Website:	<table border="1"> <tr> <td style="width: 50px; text-align: center;">(O)</td> <td style="width: 150px; text-align: center;">(R)</td> </tr> <tr> <td colspan="2" style="height: 20px;"></td> </tr> <tr> <td colspan="2" style="height: 20px;"></td> </tr> <tr> <td colspan="2" style="height: 20px;"></td> </tr> </table>	(O)	(R)						
(O)	(R)								

05.	Year of establishment
------------	------------------------------

--

06.	Affiliation (Please tick ✓ mark)
------------	--

Government	<input type="checkbox"/>	University	<input type="checkbox"/>
Deemed University	<input type="checkbox"/>	Privately Funded	<input type="checkbox"/>

07.	Present Academic strength
------------	----------------------------------

Professor/ PSO/ Eqvt. Associate Prof. / Reader/ SSO/ Eqvt. Asst. Prof. / Lecturer/ SO/ Eqvt.	<table border="1"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table>									

08.	Educational Strength					
	S.No.	Discipline	Year in which started	Current sanctioned in-take of students (Nos.)		
				U.G.	P.G.	Ph.D.

09. **Institution's achievements during the last 3 years.**
 (Attach details of best five in each category, which are relevant to the present research area)

I.	Awards		
	a. Indian	<input type="checkbox"/>	<input type="checkbox"/>
	b. Foreign	<input type="checkbox"/>	<input type="checkbox"/>
II.	Publications	Numbers	
		National	International
	a. Books	<input type="checkbox"/>	<input type="checkbox"/>
	b. Journals	<input type="checkbox"/>	<input type="checkbox"/>
	c. Conference proceedings	<input type="checkbox"/>	<input type="checkbox"/>
	d. Technical reports	<input type="checkbox"/>	<input type="checkbox"/>
	e. Citations	<input type="checkbox"/>	<input type="checkbox"/>
III.	Patents		
	a. Applied	<input type="checkbox"/>	<input type="checkbox"/>
	b. Patents obtained	<input type="checkbox"/>	<input type="checkbox"/>
IV.	Consultancy Assignments	<input type="checkbox"/>	<input type="checkbox"/>

10. Give details of the department where PI is working like Discipline, Academic Strength, Laboratory Facilities etc.

11. Give details of the department where Co-PI is working like Discipline, Academic Strength, Laboratory Facilities etc.

B-2. R&D Organization Profile

[Please see instruction – Sr. No. 17 Page No. 20]

01.	Name of the Organization	
-----	--------------------------	--

02.	Name of the Head of the organization	
-----	--------------------------------------	--

03.	Designation	
-----	-------------	--

04.	Address													
		<table border="1" style="width: 100%;"> <tr> <td style="width: 20%;">Phone: <small>With code</small></td> <td style="width: 40%;">(O)</td> <td style="width: 40%;">(R)</td> </tr> <tr> <td>Fax: <small>With code</small></td> <td colspan="2"></td> </tr> <tr> <td>E-mail:</td> <td colspan="2"></td> </tr> <tr> <td>Website:</td> <td colspan="2"></td> </tr> </table>	Phone: <small>With code</small>	(O)	(R)	Fax: <small>With code</small>			E-mail:			Website:		
Phone: <small>With code</small>	(O)	(R)												
Fax: <small>With code</small>														
E-mail:														
Website:														

05.	Year of establishment	
-----	-----------------------	--

06.	Nature (Please tick ✓ mark)	<table style="width: 100%;"> <tr> <td>Government <input type="checkbox"/></td> <td>Public Sector <input type="checkbox"/></td> <td>Private Sector <input type="checkbox"/></td> </tr> <tr> <td>Laboratory <input type="checkbox"/></td> <td>NGO <input type="checkbox"/></td> <td>Any other <input type="checkbox"/></td> </tr> </table> <p style="text-align: right;">Pl. specify-----</p>	Government <input type="checkbox"/>	Public Sector <input type="checkbox"/>	Private Sector <input type="checkbox"/>	Laboratory <input type="checkbox"/>	NGO <input type="checkbox"/>	Any other <input type="checkbox"/>
Government <input type="checkbox"/>	Public Sector <input type="checkbox"/>	Private Sector <input type="checkbox"/>						
Laboratory <input type="checkbox"/>	NGO <input type="checkbox"/>	Any other <input type="checkbox"/>						

7.	Category of the organization [tick ✓ the appropriate box against each item] :-
----	--

a.	Joint Venture	<input type="checkbox"/>
b.	Subsidiary of a Foreign Company	<input type="checkbox"/>
c.	Foreigner or NRI Owned	<input type="checkbox"/>
d.	Any other (Pl. specify)_____	

8.	Present R&D Manpower Strength	<table style="width: 100%;"> <tr> <td>PhD</td> <td><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/></td> <td>M E/ Eqvt.</td> <td><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/></td> </tr> <tr> <td>BE/ Eqvt.</td> <td><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/></td> <td>Others</td> <td><input type="checkbox"/><input type="checkbox"/><input type="checkbox"/></td> </tr> </table>	PhD	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	M E/ Eqvt.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	BE/ Eqvt.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Others	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
PhD	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	M E/ Eqvt.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>							
BE/ Eqvt.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Others	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>							

9.	Main field of operations of R&D activities of the organization
----	---

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11.	Gross Turnover in Rupees (in million)
-----	--

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[Give Total Turnover for last three years]

12.	Expenditure on R&D activities in Rupees (in million)
-----	---

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[Give only R&D expenditure for last three years]

13.	Organization's R&D Achievements during the last 3 years. (Attach details of best five in each category, which are relevant to the present research area)
-----	--

I.	Awards		
	a. Indian	<input type="checkbox"/> <input type="checkbox"/>	b. Foreign <input type="checkbox"/> <input type="checkbox"/>
II.	Publications	Numbers	
		National	International
	a. Books	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	b. Journals	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	c. Conference proceedings	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	d. Technical reports	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	e. Citations	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
III.	Patents		
	a. Applied for (Pending)	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	b. Patents obtained	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
IV	Consultancy Assignments	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
V.	Industrial Applications	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

14.	Give details of the department where PI is working like Nomenclature of the Department, R&D Personnel Strength, Laboratory Facilities etc.
-----	---

15.	Give details of the department where Co-PI is working like Nomenclature of the Department, R&D Personnel Strength, Laboratory Facilities etc.
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CERTIFICATE FROM THE HEAD OF THE INSTITUTION

[To be filled in by the Head of the Institute/ Organisation on the letter head]

Project Title:

1. It is certified that this institution nominates the participation of _____
_____(Name) _____(Designation)
as **Project Investigator** and _____(Name)
_____(Designation) as **Project Co-Investigator** of this
Institution for the above project which is being submitted for funding.

2. It is further certified that all requisite infrastructural facilities for the successful completion of the project being submitted for funding are available in this institution including equipment, manpower and other facilities, as well as necessary administrative support which will be extended to the Project Investigator for the project, except for the manpower and equipment specifically asked for in the proposal.

3. This institution shall undertake all the financial and other managerial responsibilities of the project, which shall be executed in this Institution. It is further confirmed that the Institute shall be responsible for the submission of audited accounts at each stage and also the other details e.g., Utilization Certificate, Staff engaged for the project & equipment purchased etc.

4. Certified that staff salaries proposed in the project proposal is in accordance with the approved norms of the institution.

Date:

Head of the Institution
Name & Signature and Seal

Place:

CHECK LIST

(To be enclosed duly filled in along with the Research Project Proposal)

Given below is a check list in order to facilitate researchers to submit proposal complete in all respects. Research Project Proposal with duly filled in check list shall only be considered for funding by the department. (Carefully tick the following check list).

1. Registration Certificate
2. Memorandum of Institution/ Organisation
3. Rules and Regulations of the Institution/ Organisation
4. Audited statement of Accounts for the last three years.
5. C.V. of Principal Investigator as per format
6. C.V. of Co-PI as per format
7. Whether Principal Investigator would retire during the currency of the research project.
8. Whether Principal Investigator is having any ongoing research project, if so, when it is to be completed
9. Whether Principal Investigator has completed any research project, if so
 - a. equipment purchased under the research project and
 - b. whether A/Cs have been settled.
10. Whether Principal Investigator would avail sabbatical leave for more than 6 months during the project. If so the name of the Co-PI.
11. Whether Principal Investigator is a retired scientist; if so, amount of honorarium proposed alongwith last pay certificate/ pension drawn by PI.
12. Whether staff salary are as per funding agency norms. If salary as per norms of host institution/ organisation, certificate from host institution/ organisation to be attached.
13. Whether quotations for equipment received.
14. List of equipment already available with the host institution/ organisation.
15. If funded institution / organisation is privately owned; agreement/ bond will be signed by the head of the institution/ organisation.
16. All Certificates on official letterhead of the institution/ organisation duly signed by head of the institute, PI and Co-PI and stamp of the institution / organisation.

Checked by:

Signature of the PI.

Date:

Place:

ACKNOWLEDGEMENT

(Please Submit Two Copies dully filled in by the PI)

F.No.:
Date:.....
Government of India
Ministry of
Department of

Address of Funding Agency with Phone, Fax and E-mail

Title of the Project: _____

Name & Address of the
Principal Investigator (PI): _____

..... (Do not write below this line)

Application No. _____ Received on: _____

Dear _____

This is to acknowledge the receipt of your above research proposal for grant of financial assistance by
..... (Funding Agency). Your application is under scrutiny and
processing.

Kindly quote the above F. No. and date in all your future queries.

Thanking you,

Yours sincerely,

Authorized signatory
Funding Agency

CRITERIA FOR MID TERM RESEARCH PROJECT EVALUATION (FOR PI/CO-PI/INSTITUTE HEAD)

The purpose of mid term research project evaluation is to track the progress and to be able to apply course correction as needed to achieve the committed results. Also to assess what timely actions could be taken, if any of the activities are not progressing satisfactorily, towards achieving the committed goals? PI/Co-PI/ Institute Head are requested to keep the following salient points in view while evaluating the mid term progress of the project: -----

- * Is the project on track to meet its objectives? If yes to what extent. If No what are the reasons.
- * What activities were supported by the project during the reporting period? Were they all part of the original project plan?
- * Approach or the methodology followed? Was it same as originally stipulated in the research proposal or was it changed? If changed, was funding agency prior approval taken by PI.
- * Is the project progress on time? If not what are the reasons.
- * What are the important research findings and outputs coming out of the project at this stage?
- * Is the project helping build up the research capacity of the institution or of the individuals involved?
- * What adjustments are needed to improve future performance?
- * What are the activities planned for the next period and until the end of the project?
- * In sum, the report should be an opportunity to reflect on the management of the project from various perspectives: --- technical, administrative, financial & managerial.

**RESEARCH PROJECT MID TERM EVALUATION FORM
-SELF ASSESSMENT**

[To be filled in by the P.I. Attach extra sheets wherever required]

[Please see instruction – Sr. No. 17 Page No. 20]

Report for the period from To

I – GENERAL

Project No: _____

Project Title: _____

Project Investigator Name: _____

Date of Commencement of Project: _____

Date of Completion of Project: _____

I – WORK REPORT**A. Brief summary of the work achieved on the project till date**

(Please bring out deviations made, if any, from the originally proposed objectives, methodology and work plan, while implementing the project and reasons thereof. Is there any course correction necessary? Give details):-

B. Plan of work for the remaining period of the project

(Please mention variations, if any, for further implementation of the research project, with reasons, from the originally proposed objectives, methodology and schedules)

II – PERSONNEL

A. Details of Research & Other Staff of the Project Investigator's Institution working on this project.

(Details should include name, designation, qualifications, experience, date and duration of appointment for each person)

B. Details of any additional Research staff specially appointed for this Research Project.

(Details should include name, designation, qualifications, experience, date and duration of appointment for each person)

III – EQUIPMENT PROCUREMENT

(SPECIFICALLY BOUGHT FOR THIS RESEARCH PROJECT)

(Give list of equipment specifically purchased along with value and date of receipt of the equipment)

S. No.	Details of the equipment	Value (Rs.)	Date of receipt

IV – FINANCIAL DETAILS

Details	Approved budget			Amount as spent			Remarks
	<u>1st Year</u> Rs.	<u>2nd Year</u> Rs.	<u>3rd Year</u> Rs.	<u>1st Year</u> Rs.	<u>2nd Year</u> Rs.	<u>3rd Year</u> Rs.	
Manpower							
Equipment							
Recurring Expenses							
Overheads							
TOTAL							

V – OVERALL PROGRESS OF WORK—DETAILS FROM LOG BOOK

S.No.	Item	Commitments given in the proposal <u>S.No. 20 Page No. 45</u>	Actual Achievements (As per log-books filled in)		Deviations	Reasons for Deviations	Revised Plan of action to meet the commitments under (3)
1.	2.	3.	4.		5.	6.	7.
1.	I. II. III. IV. V.	Experiments conducted	Nos. of hrs. Planned	Nos. of hrs. Actually used			
2.	I. II. III. IV. V.	Tests conducted					

S.No.	Item	Commitments given in the proposal S.No. 20 Page No. 46	Actual Achievements (As per log-books filled in)		Deviations	Reasons for Deviations	Revised Plan of action to meet the commitments under (3)
1.	2.	3.	4.		5.	6.	7.
3.	i. ii. iii.	Equipment usage	Nos. of hrs. Planned	Nos. of hrs. Actually used			
4.	i. ii. iii.	Number of Visits For: a) Data Collection	<u>Planned</u>	<u>Actual</u>			
	i. ii. iii.	b) Meetings					

VI - CRITERIA FOR SUCCESS

The sole criteria for assessing the "success" of the research project at this reporting period is that the committed objectives are fully met without any deviations. To enable the funding agency to evaluate the success of the project at this point of time, give below the following details: --

- a. **Status of the implementation of the suggestions given by the experts during their reviews?**

- b. **What new action(s) were taken by P I to resolve the problem (s)?**

- c. **Details of experts / agencies / stake holders consulted / met nationally / internationally to resolve the problem(s)?**

- d. Details of any seminars / workshops / exhibitions organized / attended on the subject to resolve the problem(s)? What were the results?

- e. Outline the key lessons learnt so far from this project.

- f. How the experience gained so far will be useful in implementing successfully the project further in order to meet the committed objectives.

g. Can the experience gained so far be used somewhere else?

VII – OVERALL SELF ASSESSMENT

Please give your own overall assessment about the progress / achievements of the research project at this stage.

Rate the overall progress of the research project at this stage:-
(Please tick ✓ as appropriate box given below)

•	Excellent	<input type="checkbox"/>
•	Very Good	<input type="checkbox"/>
•	Good	<input type="checkbox"/>
•	Fair	<input type="checkbox"/>
•	Unsatisfactory	<input type="checkbox"/>

Project Investigator
Signature

Co-Project Investigator
Signature

Head of the Institution
Signature

Date:

Place:

CRITERIA FOR FINAL EVALUATION OF THE RESEARCH PROJECT

(FOR PI / CO-PI / INSTITUTE HEAD)

PI/Co-PI/ Institute Head are requested to keep the following salient points in view while evaluating the final progress of the project: ----

- Did the project fully meet its objectives/ deliverables committed in the proposal?
- What were the most important research findings and outputs of the project?
- Who are the users of the research outcome?
- What contribution to research development in India did the project make?
- Did the project help build up the research capacity of the institution or of the individuals involved?
- What lessons can be derived that would be useful in improving future performance of similar projects? In sum, the report should be an opportunity to synthesize and assess the main results of the project, while reflecting on the project's management, limitations and achievements.
- Has the research outcome / results shown to some industry/ user? What are their comments?

RESEARCH PROJECT FINAL EVALUATION - SELF ASSESSMENT FORM

[To be filled in by the Project Investigator]

[Please see instruction – Sr. No. 17 Page No. 20]

Project No. : _____

Actual Commencement date: Project Completion date:

Report Submission date:

Project Title: _____

Project Investigator	
Surname : _____ First name: _____ Middle name: _____	
Address : _____ _____	Phone: _____ Fax : _____ E-mail : _____
Co-Project Investigator	
Surname : _____ First name: _____ Middle name: _____	
Address : _____ _____	Phone: _____ Fax : _____ E-mail : _____
Name of the Institute:	
Address : _____ _____	Phone: _____ Fax : _____ E-mail : _____
Name & Designation of the Head of the Institute: _____ _____	

[Please attach extra sheet wherever required]

- 01. Give detailed description of the research project. This should be strictly in line with the description given in the research proposal. In case there are any deviations, they must be clearly brought along with the reasons for the deviations:**

02. Details of equipment / items purchased from the research grant

Description of Equipment/Item (s)	Date of Purchase	Amount (Rupees)
TOTAL		

03. Major results achieved:

S.No.	Impact Factors identified in the research proposal. <i>(Ref. Sr. No. 11 Page No. 35 of Research Proposal)</i>	Priority given in the research proposal	Priority of the Impact Factors as obtained at the end of the research project	Remarks
1.	2.	3.	4.	5.
a)				
b)				
c)				

Note: In case of any variations between col. 3 & 4. above, please give detailed reasons under Col. 5 "Remarks"

04. Please list any other benefits achieved due to working on this research project :

05. List three main challenges experienced during implementation of the project.

a.

b.

c.

06. What were the weakest links you observed during the project?

07. Overall progress of work

S.No.	Item	Commitments given in the proposal <u>S.No. 20 Page No. 45</u>	Actual Achievements (As per log-books)		Deviations	Reasons for Deviations	Remarks
			Nos. of hrs. Planned	Nos. of hrs. Actually used			
1.	2.	3.	4.		5.	6.	7.
A.	I. ii. iii.	Experiments conducted					
B.	I. ii. iii.	Tests conducted					

S.No.	Item	Commitments given in the proposal S.No. 20 Page No. 46	Actual Achievements (As per log-books)		Deviations	Reasons for Deviations	Remarks
1.	2.	3.	4.		5.	6.	7.
			Nos. of hrs. Planned	Nos. of hrs. Actually used			
C.		Equipment usage					
	i.						
	ii.						
	iii.						
D.		Visits	Number of Visits Planned	Number of Visits. Actually Undertaken.			
		a) Data Collection					
	i.						
	ii.						
		iii.					
		b) Meetings					
i.							
ii.							
	iii.						

09. Self assessment:

The sole criteria for grading the project "**as success**" is that the **objective(s) / deliverables** committed in the research proposal have been **fully met** In order to evaluate success, following details must be given in this report :---

a. Outline the status of the implementation of various suggestions given by the experts at different stages of the project life cycle

b. What new action(s) were taken by P I to resolve the problem (s)?

c. Details of experts / agencies / stakeholders consulted / met nationally / internationally during project life cycle to resolve the problem(s)?

d. Details of seminars / workshops / exhibitions organized attended on the subject to resolve the problem(s) during the project life cycle?

e. Outline the key lessons learnt from this project

f. Can the experience gained from this project be used somewhere else?

g. Summarize from the Log Books the details of utilization of equipment during project life cycle

h. Summarize from the log books details of utilization of manpower during project life cycle

Project Investigator (PI)
Signature

Co-Project Investigator
Signature

Institute Head
Signature

Date:

Place:



DOCUMENTS FOR FUNDING AGENCY

**FORM 06, FORMAT - E, APPENDIX, FORMAT -F,
FORMAT -G, FORM 07 & 08**

the *Journal of Applied Behavior Analysis* (1974), and the *Journal of Experimental Psychology* (1975).

There are a number of reasons why the *Journal of Applied Behavior Analysis* is the most cited journal in the field.

First, the journal is the only one in the field that is published by a professional organization.

Second, the journal is the only one in the field that is published by a publisher that is not a university.

Third, the journal is the only one in the field that is published by a publisher that is not a university.

Fourth, the journal is the only one in the field that is published by a publisher that is not a university.

Fifth, the journal is the only one in the field that is published by a publisher that is not a university.

Sixth, the journal is the only one in the field that is published by a publisher that is not a university.

Seventh, the journal is the only one in the field that is published by a publisher that is not a university.

Eighth, the journal is the only one in the field that is published by a publisher that is not a university.

Ninth, the journal is the only one in the field that is published by a publisher that is not a university.

Tenth, the journal is the only one in the field that is published by a publisher that is not a university.

Eleventh, the journal is the only one in the field that is published by a publisher that is not a university.

Twelfth, the journal is the only one in the field that is published by a publisher that is not a university.

Thirteenth, the journal is the only one in the field that is published by a publisher that is not a university.

Fourteenth, the journal is the only one in the field that is published by a publisher that is not a university.

Fifteenth, the journal is the only one in the field that is published by a publisher that is not a university.

Sixteenth, the journal is the only one in the field that is published by a publisher that is not a university.

Seventeenth, the journal is the only one in the field that is published by a publisher that is not a university.

Eighteenth, the journal is the only one in the field that is published by a publisher that is not a university.

Nineteenth, the journal is the only one in the field that is published by a publisher that is not a university.

Twentieth, the journal is the only one in the field that is published by a publisher that is not a university.

Twenty-first, the journal is the only one in the field that is published by a publisher that is not a university.

Twenty-second, the journal is the only one in the field that is published by a publisher that is not a university.

Twenty-third, the journal is the only one in the field that is published by a publisher that is not a university.

Twenty-fourth, the journal is the only one in the field that is published by a publisher that is not a university.

Twenty-fifth, the journal is the only one in the field that is published by a publisher that is not a university.

Twenty-sixth, the journal is the only one in the field that is published by a publisher that is not a university.

Twenty-seventh, the journal is the only one in the field that is published by a publisher that is not a university.

Twenty-eighth, the journal is the only one in the field that is published by a publisher that is not a university.

**CRITERIA FOR INTIAL ASSESSMENT OF
RESEARCH PROJECT PROPOSAL
(FOR EXPERTS)**

Following are some of the important criteria upon which the proposal should be assessed and evaluated.

- Is there a clear statement of research objectives in the proposal?
- Are the Deliverables identified?
- Is there an explanation in the proposal as to how the completion of the research would contribute to overall research in the area in India?
- Are all the relevant details of the methodology that will be used given?
- Is an explanation given in the proposal as how these outputs are linked to the present day Indian context?
- Is a strategy given in the proposal for disseminating research results and facilitating the application of research output in the industry—who will be the users?
- Details on the background and expertise of the researchers (PI & Co-PI) and their institute—their previous track record. Do the researchers and the institute have the skills to undertake this project and fit in with the proposed research area?
- Is the work innovative?
- Is the institute infrastructure adequate for the proposed project?
- Is there an adequate implementation work plan including milestones to track progress?
- Are the resources provided or requested adequate and realistic?
- Overall assessment: Briefly provide your own views on the value and importance of the project.

RESEARCH PROJECT PROPOSAL EVALUATION FORM

This page to be filled in by funding agency
 Copy of the Research Project Proposal enclosed.

Proposal No. :

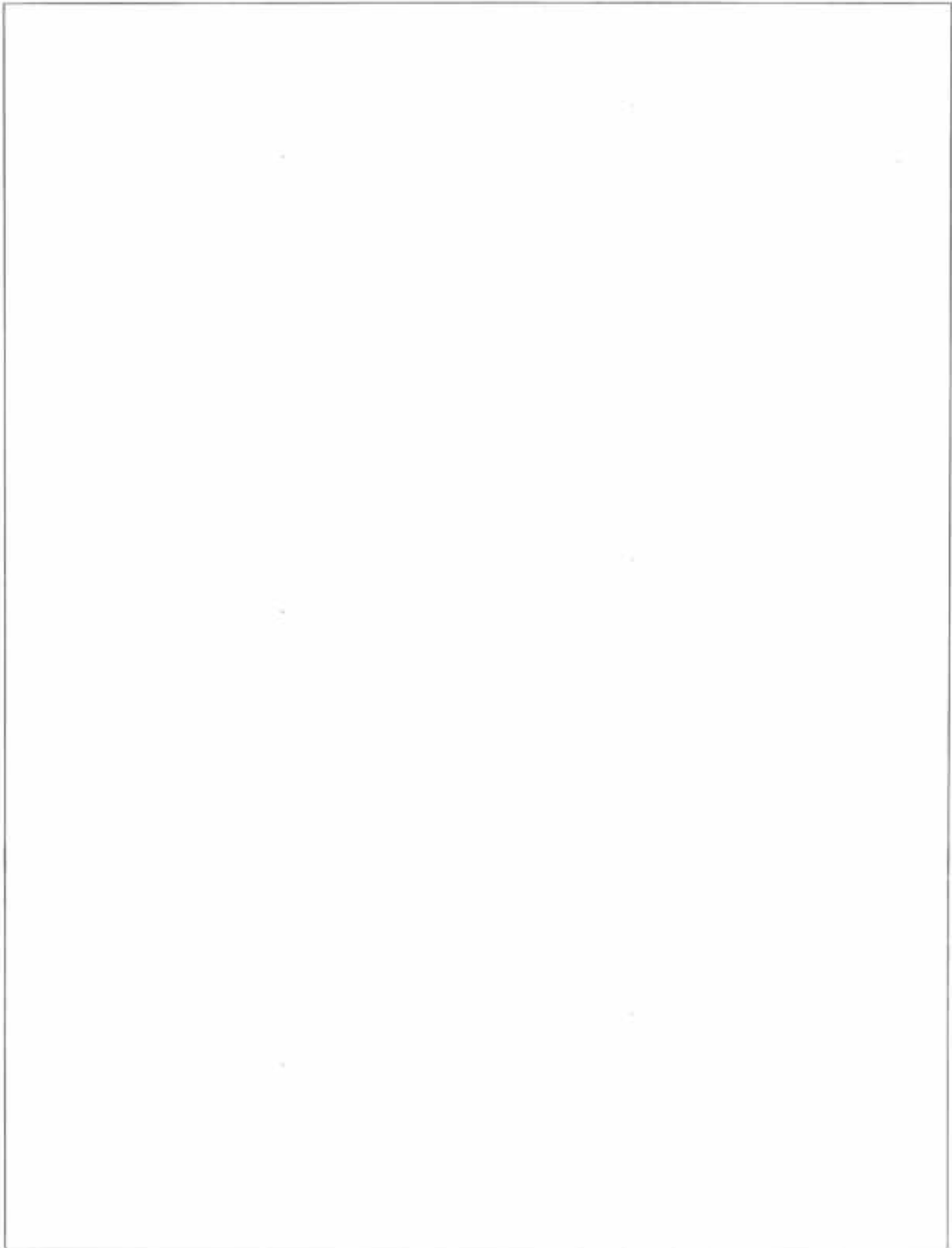
Title of Research
Project :

Project Investigator : Name & Communication address

Name and Address of the
Expert with communication
details

[This page onwards to be filled in by the expert]

- A. Brief Summary of the Research Project Proposal:**
(Please provide your own views on the Value and Importance of the Research Project)



B. Overall Assessment of the Research Project Proposal :

C. Detailed Evaluation :

How would you characterize the project? *[Please tick mark (✓) the appropriate box below]*

- 1. New or emerging subject
- 2. A topic on which considerable work has been done in India; but the approach in the present proposal is innovative & creative & different than earlier approaches.
- 3. A subject wherein considerable data is already available and further work may, at best, provide marginal additional data
- 4. A rather trivial problem identified
- 5. Rating of Research Proposal :

Technically sound and of high international quality :

(A) Yes

(B) No

Give details

6. Has the PI furnished sufficient and accurate information required for proper evaluation of the research proposal?

(A) Yes

Give details

(B) No

7. Is the Research Project aimed at achieving specific deliverables?

(A) Yes

Give details

(B) No

8. Are the objectives of the Research Project realistic and achievable?

(A) Yes

Give details

(B) No

9. Is methodology to achieve the objectives and the work plan given in the proposal appropriate and adequate?

(A) Yes

Give details

(B) No

10. In case the methodology & work plan are not appropriate, please suggest necessary modifications that may help in achieving the objectives?

11. Give your specific comments on the risk / uncertainties identified by the PI in the research project proposal vide S.No. 09, Page No. 34

S.No.	Risk identified by PI in the research proposal	Risk rating given by PI in the proposal	Experts' risk rating	Comments of the expert on the risk minimization measures proposed by the PI in the research proposal

12. List Four Strengths of the Proposal

a.

b.

c.

d.

13. Do you find any weak links in the proposal?

a.

b.

c.

d.

14. Is the In house monitoring system proposed by the PI adequate?

--

15. Is the P I capable of executing the project successfully?

--

16. Is the Co-PI capable of executing the project successfully?

--

17. Is the Institution capable of executing the project successfully?

--

18. Are the details given by the PI for maintaining the log-books adequate?

19. Research Project Rating:

I. Proposed Project is :

- (a) Excellent
- (b) Good
- (c) Average
- (d) Requires major revision and reconsideration
- (e) Not acceptable

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

Please explain

II. Institutional and Laboratory Facilities available are :

- (a) Excellent
- (b) Good
- (c) Fair
- (d) Inadequate

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>

Please explain

20. Evaluation of the Proposed Budget :

21. Evaluation of Equipment proposed :

22. Evaluation of Manpower proposed :

Place:

Signature of the Expert

Date:

FORMAT OF SANCTION LETTER
[To be given by the funding agency on their letterhead]

To,

Subject: _____

1. I am directed to convey the approval of the President to the above mentioned research study at a total cost of Rs. _____ (Rs. In words) for a duration of _____ months.

The item of expenditure for which the total allocation of Rs. _____
 (Rs. in words) _____ has been approved are given below:

S.No.	Item	Approved allocation
A.	Recurring	
1.	Salaries/ wages	Rs. _____
	i. Manpower A	Rs. _____
	ii. Manpower B	Rs. _____
	iii. Manpower Cetc.	Rs. _____
2.	Travel	Rs. _____
3.	Other Costs (including Consumables)	Rs. _____
4.	Contingency & other Institutional Charges – (..... % of the above	Rs. _____
5.	Overheads	
6.	Grand Total	Rs. _____

2. The sanction of the President is also accorded to the payment of Rs. _____ (Rs. in words) as the first installment of the grant for the implementation of the said project.
3. The amount of Rs. _____ (Rs. in words) will be drawn by the account division of the funding agency and disbursed to The Head, _____ (institution name & address).
4. The expenditure involved is debitable to Demand No. _____ funding agency major related heads of expenditure accounts. The above release is made under funding agency scheme _____.
5. As per rule (150)(1) of GFR's the accounts of the grantee institution shall be open to inspection by the sanctioning authority/ audit whenever the institution is called upon to do so.

6. The institute furnished to the funding agency, Utilisation Certificate as per agency format and audited statement of accounts pertaining to the grant immediately after the end of each financial year.
7. The institute will maintain separate audited accounts for the research project. If it is found expedient to keep a part or whole of the grant in a bank account earning interest, the interest earned should be reported to the grantee institution. The interest thus earned will be treated as a credit to the Institute to be adjusted towards further installment of the grant.
8. The sanction has been issued with the concurrence of IFD of funding agency vide sanction No. _____ dated _____.

Signature of the authorized person
by the funding agency.

Copy forwarded for information and necessary action to:

1. Account Officer
2. Cash Section
3. The Head, Grantee Institution. Sanction of the grant is subject to the terms and conditions as detailed in enclosed **Appendix**. A format for submitting statement of expenditure and utilization certificate is also enclosed. Progress report on quarterly basis should be sent to this department. Sample size as stipulated in the proposal should be adhered to.
4. Concerned Officers in connection of the research project.
5. Sanction Folder/ File as office copy.

Signature of the authorized person
by the funding agency

TERMS & CONDITIONS OF GRANT

[Full Compliance with these terms & conditions are essential. If it is observed at any stage that these are not followed, the project will be cancelled]

1.0 GENERAL

- 1.1 Research Proposal & grant approval by funding agency is for the specific project and no diversion / receipt of funds allowed for and from any other project. Unspent funds to be returned to funding agency along with "Statement of Expenditure" & "Utilization Certificate" in the format given at Appendix – at the end of every financial year (31st March) or earlier, as and when payment are claimed.
- 1.2 For permanent / semi-permanent assets i.e. immovable property / movable capital nature property valuing above Rs. purchased from the grant to be recorded and funding agency informed of the same. Normal infrastructure e.g. accommodation, water, electricity and communication etc., however, needs to be with the institute.
- 1.3 The expenditure for each head should be within limits of sanctioned amount.
- 1.4 Yearly annual progress reports (.....copies) of the project to be submitted to funding agency. Agency may designate scientists / specialists / experts to institution periodically for progress review. All expenses of visiting personnel to be included in the budget estimates
- 1.5 Request for utilization of unspent grant to next financial year to be submitted separately along with all details.
- 1.6 Separate audited a/c for project to be maintained. Any interest earning on grant to be informed to the department.
- 1.7 No sub-contracting of the project allowed. Inability to complete the project in time to be notified to the funding agency alongwith return of grant.
- 1.8 The research project approved for funding shall be sanctioned for a specified period.
- 1.9 If during execution of the project, it is observed that the progress of work is unsatisfactory/ any instructions and terms & conditions are violated, PI/Co-PI/ Institute Head after giving full justification, will return the unspent amount to the funding agency and project will be deemed to be closed with immediate effect.
- 1.10 Under no circumstances, the PI/Co-PI/ Institute Head will divert funds for any other use. If it is observed that the funds are diverted, the project will be closed with immediate effect.

2.0 STAFF

- 2.1. Personnel employed on project shall be governed as per their administrative rules.
- 2.2 In case, PI wishes to leave the institution, funding agency & institute to decide on steps for completion of project before relieving PI.
- 2.3 The qualification, emoluments and general service rules for the staff should be as per the sanction.
- 2.4 The procedure for selection and appointment of staff sanctioned for the project shall be as per normal procedure of temporary recruitment of the institute.
- 2.5 The staff appointed on the research project shall be under the administrative control of the PI.

3.0 EQUIPMENT GRANT

- 3.1 All major equipment required will be indicated in the sanction letter. Grant for equipment, if any sanctioned, for the project will be strictly limited to the amount and items of equipment as indicated in the sanction letter.
- 3.2 In case of escalation in prices or changes in specification / type of equipment, prior permission of the funding agency shall be obtained.
- 3.3 Only equipment specially sanctioned for the project shall be allowed to be purchased and no purchase of items like air conditioners, refrigerators, exhaust fans, furniture etc., shall be allowed from the sanctioned amount of the project.
- 3.4 The institution / PI must maintain proper and separate stock register of all items of equipment purchased for the project.
- 3.5 Any asset acquired by grant shall be disposed off exclusively as per the decision of the funding agency at the conclusion of project, including gifting the same.

4.0 PUBLICATIONS & INTELLECTUAL PROPERTY RIGHT'S (IPR) SAFEGUARD

Guidelines for publication and safeguard of intellectual property rights shall be as follows:-:

- 4.1 Publication of any paper, based on research conducted; by the R&D institution shall be subject to prior approval of funding agency.
- 4.2 Project Investigator is not allowed to enter into any agreement for publication with a foreign partner without prior approval of the funding agency.
- 4.3 Project Investigators should resort to publish the research papers of the project work in "high-end" Indian / international journals only after approval of the funding agency.
- 4.4 Wherever funding agency decides that the results of research should be legally protected, the results should be published only after legal protection for the research results is obtained.
- 4.5 As per latest National and International Scenario, the Intellectual Property Rights (IPR) has assumed greater significance. Following guidelines should be adhered to by the PI and the implementing institutions with regard to IPR.
 - a) Institutions / PI need to seek protection of Intellectual Property Rights to the results of research on R&D projects. IPR include patents, registered designs, copyrights and layout design of integrated circuits (IC).
 - b) IPR generated by publicly funded R&D institutions / academic institutions, through projects funded by the Government Departments, be owned by the institutions and they will be required to file patent applications at their cost.
 - c) The Institutions can approach the Patent Facilitating Cell (PFC) set up by this department to assist them for patent search, obtaining a list of patent attorneys, filing of patent application(s) in India and abroad. These institutions will be free to retain exclusively the benefits and earnings arising out of these IPR.
 - d) If the patent is taken by the Institute at its own cost, it is free to transfer the innovation to industry for commercialization, after concluding an agreement, as per its laid down procedures. However, the details of the agreement, amounts received annual sales turnover of the product shall be intimated periodically to the funding agency.
 - e) The institution and industry may transfer the technology to another industry for commercialization, on terms and conditions as may be mutually agreed upon, on non-exclusive basis. Any earnings accruing from such a transfer and commercialization shall be shared between the institution and the industry as may be mutually agreed to. The details of the agreement, amounts received annual sales turnover of the product shall be intimated periodically to the funding agency.

- f) The Government shall have a royalty-free license for the use of the Intellectual Property for the purposes of the Government of India and this Department reserves the right to require the institution and the industry to license others and requires that anyone exclusively licensed to market the innovation in India must manufacture the product in India.
- g) For further information/ clarification on this subject, please contact funding agency.

5.0 SPECIAL TERMS & CONDITIONS OF GRANT

Funding Agency at his sole discretion may stipulate any other terms & conditions as deemed necessary for the implementation of the research project.

BOND

[To be filled up by the Head of the Institution on Rs. 100/- Indian Non Judicial Bond Paper]

KNOW ALL MEN BY these presents that we the _____ (Name of the Institution/ Organisation) registered under _____ having its office at _____ (hereinafter called the obligors which terms shall unless exclude by or repugnant to the context be deemed to include its successors, permitted assigns and all persons entitled to and capable of disposing of the assets and properties of the obligors) are held and firmly bond to the funding agency (herein after called the "_____ " which terms shall exclude by or repugnant to the context to be deemed to include his successors and assigns) in the sum of Rs. _____ (Rs. in words) well and truly to be paid to the Government on demand and without a demur for which payment we firmly bind ourselves by these presents.

SIGNED THIS ____ day of _____ in the year _____.

WHEREAS on the obligors request the Government has as letter No. _____ dated _____ (hereinafter referred to as the "Letter of Sanction" which forms an integral part of these presents and a copy where of is annexed here to marked with the letter "A") agreed to make in favour of the obligors for the purpose of incurring an expenditure of Rs. _____ (Rs. in words) for the _____ (purpose of the sanction), out of which Rs. _____ (Rs. in words) (First installment been paid to the obligors) and the balance amount will be paid to the obligors (the receipt of which sum the obligors do hereby admit and acknowledged), as work proceeds, on condition of the obligors executing a bond in the terms and manner contained after which the obligors have agreed to do.

Now the condition of the above written obligation is such that if the obligors duly fulfill and comply with all the terms and conditions mentioned in the letter of sanction, than the above written bond or obligation shall be void and of no effect, but otherwise it shall remain in full force, effect and virtue. And these presents further witness as under:

1. The decision on the question whether there has been break or violation of any of the terms and conditions mentioned in the letter of sanction shall be final and binding on the Obligors.
2. The Funding Agency has agreed to bear the stamp duty, if any chargeable on these presents.

In witness whereof these presents have been executed on behalf of the obligors pursuant to the resolution No. _____ dated _____ by the Board of the Management of the Institution/ Organisation the Obligors.

Signed for and on Behalf of :

Obligees in the presence of
Witness with name and address.

1.

2.

Signature of the Grantee Institution

(FOR OFFICE USE ONLY)

Accepted for and on behalf of the
Funding Agency

Witness..... Name and Designation

Name and Address:

**FORMAT OF UTILISATION CERTIFICATE
FOR THE FINANCIAL YEAR 1ST (ENDING 31ST MARCH)**

1. Title of the Project / Scheme	
2. Name of the Institution	
3. Name of the Project Investigator	
4. (a) Funding Agency Sanction Letter No.	
(b) Date of Project Sanction	
5. Head of account given in the original sanction letter	
6. (a) Amount brought forward from the previous financial year.	i. Amount
(b) Funding Agency Letter No. and date in which the carry forward of amount was authorized	ii. Letter No. iii. Date
7. Amount received during the financial year (please give no. & date of sanction letter of funding agency for the amount)	i. Amount ii. Letter No. iii. Date
8. Total amount that was available for expenditure (excluding commitments) during the financial year (S.No. 6+7)	Rs.
9. Actual expenditure (excluding commitments) incurred during the financial year (upto 31 st March)	Rs.
10. Balance amount available at the end of the financial year	Rs.
11. Unspent balance refunded if any (Please give details of Cheque No. etc.)	Rs.
12. Amount to be carried forward to the next financial year	Rs.

STATEMENT OF EXPENDITURE

1. Sanction Letter No : _____
2. Project Sanction Date : _____
3. Total Project Cost : _____
4. Sanctioned/ Revised Project Cast (if applicable) Rs. : _____
5. Date of Commencement of the Project : _____
6. Grants received each year
 - a) 1st year : _____
 - b) 2nd year : _____
 - c) 3rd year : _____
 - d) Interests, if any : _____
 - e) Total : _____

6. Statement of Expenditure:

Total Expenditure Rs. _____ (out of which Rs. _____ yet to be received and excess expenditure; if any of Rs. _____ over sanctioned amount is borne by the institution/ organisation.

UTILISATION CERTIFICATE ISSUED BY AUDITOR

(To be filled by the accounts Deptt. of funding agency duly authorized signed by CA in presence of Head of the Institution/Organisation & Project Investigator)

Certified that out of Rs. _____ of grant-in-aid sanctioned during the year _____ in favour of _____ the funding agency, under the sanction Letter No. _____ dated 31st March, _____ and Rs. _____ on account of unspent balance of the previous year, a sum of Rs. _____ (Rupees in words) has been utilized for the purpose of _____ for which it was sanctioned and that the balance of Rs. _____ remaining unutilized at the end of the year has been surrendered to the funding agency (vide Challan No. _____ dated _____).

Project Investigator
Signature

Head of the Institution
Signature

Chartered Accountants
with Membership No.
Signature

Place : _____

Dated : _____

(TO BE FILLED IN BY FUNDING AGENCY)

Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been fulfilled/are being fulfilled / and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned :

- 1.
- 2.
- 3.
- 4.
- 5.

Signature of Funding Agency Financial Authority
with Date and rubber stamp

Signature of Funding Agency Head
with date and rubber stamp

**CRITERIA FOR MID TERM EVALUATION
OF THE RESEARCH PROJECT
(FOR FUNDING AGENCY EXPERTS)**

The purpose of mid term research project evaluation report is to track the progress and to be able to apply course corrections as needed to achieve the committed results. Also to assess what timely actions could be taken if any of the activities are not progressing towards achieving the goals? Each Expert Member of the Monitoring Group is requested to keep the following salient points in view while evaluating the mid term progress of the project.

- ⊛ Is the project on track to meet its objectives? If yes to what extent. If No what are the reasons?
- ⊛ What activities were supported by the project during the reporting period? Were they all part of the original project plan?
- ⊛ Approach or the methodology followed? Was it same as originally stipulated in the research proposal or was it changed? If changed, was funding agency prior approval taken.
- ⊛ Is the project progress on time? If not what are the reasons.
- ⊛ What are the important research findings and outputs coming out of the project at this stage? What are they?
- ⊛ Is the project helping build up the research capacity of the institution or of the individuals involved in India?
- ⊛ What adjustments are needed to improve future performance?
- ⊛ What are the activities planned for the next period and until the end of the project?
- ⊛ Details given in the log-books—do they justify satisfactory progress of work?
- ⊛ Please evaluate the efforts put in by P I. Are they adequate and in the right direction.
- ⊛ In sum, the report should be an opportunity to reflect on the management of the project from various perspectives: -- technical, administrative and financial.

MID TERM EVALUATION FORM OF THE RESEARCH PROJECT

[To be filled in separately by the each expert of the funding agency
after actually verifying the progress of work]

[To be filled in by the funding agency]

*[Copy of the mid term self-assessment report filled in by the PI
along with the original research project proposal enclosed]*

Report for the period from _____ to _____

Project No: _____

Project Title: _____

Project Investigator Name: _____

Name of the Expert _____

[Onwards to be filled in by the expert]

Dates of visit to the institution of the PI to verify the
Research work for the period under review: _____

1. **Give brief summary of the progress of work. Please bring out clearly any deviations from the research proposal: (To what extent objectives have been met).**

2. Log Book Verification

Please give your comments on the revised plan of action given by PI to meet the commitments vide S. No. V Page No.63- 64 of the self assessment report submitted by PI (FORM 04)

A. Experiments conducted .

B. Tests Conducted

C. Equipment Usage

--

D. Visits Undertaken

--

[Note: Details of Sr. No. 2 above should be verified from the log books maintained by PI]

3. Success of the Project at this stage

The sole criterion for assessing the success of the project at any stage of the project life cycle is that the committed objectives are fully met without any deviations. Monitoring committee must examine whether the *suggestions* given by them at any stage have been implemented by the P I or not. They must also examine as to what new action(s) PI took to resolve the problem(s). These must be highlighted by the expert in the report. This is to *evaluate the extent of success and the efforts* put in by the P I to achieve the committed results.

- a. **If there is any problem faced by the PI, have you given any suggestions to over come the problem(s)? Give details of your suggestions.**

- b. **What action (s) PI took on the various measures suggested by the expert at any stage of the project life cycle?**

- c. **Was the action on the suggestions given by the expert, implemented by the PI immediately?**

d. Has *"action taken"* reflected by the PI in his progress report?

e. Which experts/ stakeholders PI consulted / met nationally / internationally to resolve the problems?

f. Which other agencies PI consulted / met to resolve the problems?

g. Did PI organize/ attend any seminars / workshops/ exhibitions to solve the problems? What were the results?

h. Did PI take any other measures so far to meet the committed objectives?

i. How effectively the equipment had been utilized by the P I?—Details from Log Books

j. How effectively the manpower had been utilized by the PI?—Details from the Log Books

5. **Any other comments**

Name & Signature of the Expert

Date:

Place:

**CRITERIA FOR FINAL EVALUATION
OF THE RESEARCH PROJECT
(FOR FUNDING AGENCY EXPERTS)**

Funding Agency Monitoring Group Experts are requested to keep the following salient points in view while evaluating the final progress of the project: ---

- ☞ Did the project meet its objectives?
- ☞ What were the most important research findings and outputs of the project?
- ☞ Who are the users of the research outcome
- ☞ What contribution to research development in India did the project make?
- ☞ Did the project help build up the research capacity of the institution or of the individuals involved?
- ☞ What lessons can be derived that would be useful in improving future performance of similar projects? In sum, the report should be an opportunity to synthesize and assess the main results of the project, while reflecting on the project's management, limitations and achievements.
- ☞ Has the research outcome / results shown to some industry/ user? What are their comments?
- ☞ There should be a clear mention in the report **as to what extent the objectives have been met**. Experts should clearly bring out in the review, the action which PI took on the various corrective measures suggested by the experts during the previous reviews.
- ☞ Meeting the committed objectives is the *sole criteria of success*. If the objectives are *partially met or not met at all*, experts would assess the extent of success and also evaluate the efforts put in by the PI.

FINAL EVALUATION FORM OF THE RESEARCH PROJECT

*[Copies of research proposal, mid term review,
& PI's final self assessment report enclosed]*

[This page to be filled in by the Funding Agency]

Project No. : _____

Actual Project Commencement Date: _____ Actual Project Completion Date: _____

Project Title: _____

Name of the PI: _____

Name of the expert with address and other communication details:

(This page onwards to be filled in by the expert. Attach extra sheet wherever required)

A. Project Description

B. Details of major results obtained

Please also give following details:

S.No.	Impact Factors identified by the PI in the research proposal. (Ref. <u>Sr. No. 11 Page No. 35</u> of Research Proposal)	Priority given by the PI in the research proposal	Priority of the Impact Factors as obtained at the end of the research project	Remarks of the funding agency expert on col. 4
1.	2.	3.	4.	5.
a)				
b)				
c)				

C. What were the weakest links you observed in the project during execution:

D. Final measurement and evaluation of the S&T research outcome

Systematic analysis and evaluation of the performance against committed goals is very essential. Indicators are part of performance measurement. It is necessary to know the factors, which influenced the results. Both quantitative and qualitative indicators have to be selected for measuring the research outcome. Process of moving downstream along the research continuum from the research component to the final destination of a useful outcome and its impacts & benefits particularly scientific and technological have to be evaluated.

Note: - As was done at the time of mid term review, Funding Agency experts and PI should first jointly identify the following details in the beginning of the project keeping in view the nature and type of the research project under review:-

- *Impact factors / indicators which are applicable*
- *Weightage and Priority to be allocated to each selected indicator/ impact factor*
- *Type (fixed or sliding) and Range of Scale to be used for giving score to each indicator / impact factor*
- *These should be same as identified in the mid term review*

S.No (1)	Impact Factors (Research Output leading to:-----) Tick (✓) the applicable impact factor(s) for the project under review (2)	Weightage / Priority (3)	Score given by Funding Agency Expert (4)
A.	<u>I. QUANTITATIVE S&T INDICATORS</u>		
	RESEARCH PUBLICATIONS		
	1 Citations		
	2 International Refereed Journals		
	3 National Refereed Journals		
	4 Papers presented in Conferences/ Seminars		
B.	TECHNOLOGY		
	5 Technical Reports		
	6 Demonstrated/ Awareness Created		
	7 New Materials		
	8 Products		
	9 Processes		
	10 Prototypes		
	11 Scale of Development		
12 Transferred			

S.No (1)	Impact Factors (Research Output leading to:-----) Tick (✓) the applicable impact factor(s) for the project under review (2)	Weightage/ Priority (3)	Score given by Funding Agency Expert (4)
C.	OTHER INDICTORS		
	* Patents		
	a. Applied		
	13 National		
	14 International		
	b. Granted		
	15 National		
	16 International		
	* Awards		
	17 National		
	18 International		
	19 Commercial & Marketing Potential		
	20 Cost Cutting/ Savings achieved		
	21 Experts Trained at National Level		
	22 Experts Trained at International Level		
	23 Industrial Queries Generated		
	24 Import Substitution		
	25 Industrial Tie-ups		
	26 Any other Infrastructure Development which has relevance to R&D (Established/ Upgraded)		
	27 New e-applications		
	28 New Teaching Methods Developed		
	29 Ph.D. Awarded		
	30 Any other indicator(s) –Pl. specify -----		

S.No (1)	Impact Factors (Research Output leading to:-----) Tick (✓) the applicable impact factor(s) for the project under review (2)	Weightage/ Priority (3)	Score given by Funding Agency Expert (4)
II. QUALITATIVE S&T INDICATORS			
	31 Experience Gained useful for further R&D		
	32 Linkages with National Priorities		
	33 Socio-Economic & Societal Benefits		
	34 Any other indicator(s) –PI. specify -----		

- (a) Total Score
- (b) Score Obtained by P I
- (c) % Score obtained {b/c}

In case review is undertaken by more than one expert, then the average of % score given by each expert can be taken as the final score for S&T output and judged as follows: -

SCORE (%)	RATING
0-40	Unsatisfactory
41-50	Fair
51-70	Good
71-80	Very Good
81-100	Excellent

The %age range for "each rating" can be modified by the funding agency, if desired.

In case the above score is <41% i.e. success of S&T research outcome has been rated as Unsatisfactory, funding agency has to critically examine the efforts put in by PI as follows:-

E. Final Measurement & Evaluation of Efforts put in by PI

Stage(s) of Review: Completion / Final Stage Period under Review ----- to -----

Note: - As was done at the time of mid term review, Funding Agency experts and PI should first jointly identify the following details in the beginning of the project keeping in view the nature and type of the research project under review:-

- *Impact factors / indicators which are applicable*
- *Weightage and Priority to be allocated to each selected indicator/ impact factor*
- *Type (fixed or Sliding) and Range of Scale to be used for giving score to each indicator / impact factor*
- *These should be same as identified in the mid term review*

S.No.	Tick (✓) applicable Impact Factor / Indicator for the project under review	Weightage / Priority	Score given by Funding Agency Expert
(1)	(2)	(3)	(4)
1.	Display in Exhibitions		
2.	Implemented various suggestions given by the experts in their reviews.		
3.	Meetings / Consultations held with experts/ stakeholders—Nationally / Internationally		
4.	New initiatives to resolve the problem(s)		
5.	Seminars / Workshop organized		
6.	Tests / Experiments Conducted		
7.	Visits for Data Collection		
8.	Any other indicator(s) –PI. specify -----		

- (a) Total Score
- (b) Score obtained by P I
- (c) % Score obtained (b/a)

In case review is undertaken by more than one expert, then the *average* of % score given by each expert can be taken as the final score for efforts put in by PI and judged as follows: -

SCORE (%)	RATING
0-40	Unsatisfactory
41-50	Fair
51-70	Good
71-80	Very Good
81-100	Excellent

The %age range for "each rating" can be modified by the funding agency, if desired.

If the above score is < 41%, the funding agency may take appropriate decision re: release of final payment for this project as well as for funding of new projects in future.

E. Any other comments

Place:

Signature of expert with name

Date:

