

**SUMMARY OF PROPOSAL TO DRDO Dte of ER&IPR, RBs FOR RESEARCH GRANT**  
(Under Grants-in-Aid)(All fields are mandatory)

1. Proposal (Title):  Keywords (4-5):  Type of Institution: (a) Govt / Non-Govt / Private(*) (b) University/College/PSU/Industry/NGO/ Society(Regn No. .... .) (*)For Private institute, attach recognition certificate from UGC/AICTE/Govt. bodies valid for at least 3 Years.		(For DRDO Use Only)  Date Received: /...../ .....  ER&IPR , RB File Number:  ERIPR/NRB/ARMREB/LSRB/ARDB									
2. Principal Investigator (PI):  Name: Designation: Department: Institution:	3. Date of Birth <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; text-align: center;">DD</td> <td style="width:33%; text-align: center;">MM</td> <td style="width:33%; text-align: center;">YY</td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> </tr> </table>			DD	MM	YY				Sex: M / F	
DD	MM	YY									
4. PI's address:  <div style="text-align: right; margin-right: 50px;">           Pin code <input style="width: 50px; height: 15px;" type="text"/> </div> Phone:                      Mobile:                      Fax: Email:	5. Co-Investigators (CIs): a) Name: Address: (Phone/e-mail):  b) Name: Address: (Phone/e-mail):										
6. Main objectives (not exceeding 50 words)											
7. Name of collaborating DRDO/other institutions, if any, in the current proposal											
8. Two best publications in the field by the PI in last five years and brief references to any patents filed or technologies developed											
9. Proposed expenditure on ▼ (Rs. In lakhs) during ➤											
	Year 1	Year 2	Year 3	Line total							
a) Staff :											
b) Equipment (including spares thereof)											
c) Operation and maintenance of equipment											
d) Expendables											
e) Travel											
f) Contingencies											
g) Consultancy											
h). workshops											
i) Procured services (other than (g)) and metered utilities											
Total for (a to i)											
j) Add Institutional overheads as per 5.2 (i) Use year wise proportional figures.											
Column totals											
10. References to other ongoing projects with, or proposals made to, DRDO/other (including foreign) agencies: <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">Funding agency</td> <td style="width:20%;">Amount (Rs.)</td> <td style="width:20%;">Period</td> <td style="width:30%;">Title</td> </tr> </table>					Funding agency	Amount (Rs.)	Period	Title			
Funding agency	Amount (Rs.)	Period	Title								
11. Cheque to be issued in favor of:											

12. Administrative authority of host institution forwarding proposal (Signature with Seal and Full Name & Designation)	13. Signature of Principal Investigator (PI):
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## **APPLICATION FOR GRANT OF RESEARCH PROJECT**

(One hard copy in case of online submission, Otherwise four hard copies duly signed by PI & concerned administrative authority at appropriate places, to be submitted to one of following :

1. Joint Advanced Technology Center  
Room No 418, Block-V  
II Delhi

## Summary:

	Page No
Title of Research proposal.....	1
Type of Project: Basic/Applied .....	2
Aims of the Research Proposal .....	4
Deliverables .....	
Details of Investigator(s) .....	
Proposed duration of the research proposal .....	
Brief review of the state-of-art in the field (National & International)	
Scientific Importance of the project .....	
Methods and Procedure .....	
Facilities available for carrying out the proposed research work	
Additional equipments required for the proposed work with price, budgetary quotations & justification .....	
Previous work done in this or related fields	
Biographical sketch of investigator(s) .....	
Research support for other projects of the applicant from various sources .....	
Deliverables specific to Software / firmware intensive Projects	
Specific points linked to centre of excellence .....	

## Section 'A'

1. Title of Research proposal (Make the title concise & specific)

2. Type of Project: Basic/Applied

3. Aims of the Research Proposal

4. Deliverables

5. Details of Investigator(s)

(a) Principal Investigator

Name & Designation

Name and Address of Institution (complete with Phone(Off & Res), Mobile, Fax & E-mail)

(b) Co-Investigator

Name & Designation

Name and Address of Institution (complete with Phone(Off & Res), Mobile, Fax & E-mail)

6. Proposed duration of the research proposal with justification

7. Amount of grant proposed (with justification)

Proposed expenditure on ▼ (Rs. In lakhs) during ➤	Year 1	Year 2	Year 3	Line total
a) Staff :				

b) Equipment (including spares thereof)				
c) Operation and maintenance of equipment				
d) Expendables				
e) Travel				
f) Contingencies				
g) Visiting Faculty or Research Consultant(s)				
h) Workshops				
i). Procured services (other than (g))and metered utilities				
Total for (a to i)				
a) Add Institutional overheads as per 5.2 (i) Use year wise proportional figures.				
Column totals				

Justification:

- a. Staff (Designation, number and pay for each post to be given)
- b. List of equipments proposed with budgetary quotations ( Refer col 12 also)
- c. Maintenance
- d. Expendables (Chemicals, Substrates, Glassware, photographic materials etc.)
- e. Travel (only Domestic)
- f. Contingencies ( Postage, Stationary, typing, Miscetc)
- g. Visiting Faculty, if any
- h. Procured services
- i. Proposed duration

8. (i) Department of the Institution where research will be carried out

(ii) Other departments, if any, which will cooperate in this study (Mention name of DRDO Lab also if any)

9. Brief review of the state-of-art in the field (National & International)

(Appendix A)

10. Scientific Importance of the project

(Appendix B)

11. Methods and Procedure

(Appendix C)

(Give details of the actual experimental approach to the execution of your research plan indicating how each specific aim is expected to be fulfilled. Give activity chart/Bar chart).

12. Facilities available for carrying out the proposed research work in Applicant's (a) Group, (b) Department, (c) Institution and (d) co-located DRDO lab

(Appendix D)

13. Additional equipments required for the proposed work with price, budgetary quotations & justification (Refer Col 6 b. also)

(Appendix E)

14. Previous work done in this or related fields (To be attached as Appendix "F". Describe briefly any work done that is particularly pertinent to the proposal and list (i) your personal publications in this related area and (ii) personal publications in other areas).

15. Biographical sketch of investigator(s)

- (i) Name
- (ii) Designation
- (iii) Date of Birth
- (iv) Education and Experience
- (a) Academic Qualifications  
(Begin with bachelor degree)

Degree	University	Subjects(s)	Year

- (b) Other research training and experience especially establishing research qualification in area covered by this application including previous and present position.

Institution	Topic of work done	Year

- (v) Field of major scientific interest:
- (vi) Additional information (if any):

16. Research support for other projects of the applicant from various sources.  
(List all other research support to PI & Co-PI).

Name of Agency	Title of project	Total Amount	Period of support	Completed/on-going



## Section 'B'

1. Name of institution submitting application
2. Address
3. Name, designation and full address of the official to whom cheques are to be mailed.

### CERTIFICATE

The undersigned agree to abide by the terms and conditions set forth for the Grants-in-aid scheme of the Ministry of Defence and certify that basic necessary facilities for the proposed work are available and the same can be extended to the investigator. The proposal has not been submitted to or under consideration by any other funding agency, simultaneously.

Signature of the Principal Investigator  
Authority  
institution

Signature of Executive  
of the

Name and Designation  
Date

Name and Designation  
Date

Signature of co-investigator

Official stamp  
University/institution

Name and Designation  
Date

## GUIDELINES TO FILL THE FORM

**Item 1:** Title of proposal must be short and should encapsulate the main objective. Examples: “Mapping trajectories of ions in nearly-insulating multi-layers using channeling ERDA”; “Design and construction of a new instrument to confirm the Patankar conjecture that bacterial rhodopsin acts as a pseudo-prion in Bose-Chapman electric fields”. The objective of the proposal could also be pursuit of a generic research programme such as “A Programme for Advanced Research in Mathematical Engineering of Non-Linear Systems”.

PI should provide 4-5 keywords which will help in classification

PI should provide information about type of institution

**Item 6:** State main objectives of the proposal highlighting investigations, methodology and/or experimental design (such as validating new theory, exploring new parameter regimes, test of hypotheses, etc.) followed by expected categories or types of results. Example: “The test-section of the existing hypersonic wind tunnel will be modified to enable two yawed cones to be placed laterally in the test section. Liquid crystal coatings will be used to identify location of transition. Results will be reported as Dhawan transition maps in nested form.”

**Item 9:**

- a) Staff: Indicate here numbers and categories of staff proposed to be engaged. The current emoluments are as per Govt rules. HRA also payable as per Govt. rules.
- b) Equipment (including spares thereof): Details of proposed equipment with justification to be given against item 12 of section A of detailed form.
- c) Operation and maintenance of equipment: Include here proposed outlays on service contracts for maintenance of equipment beyond guarantee period; upkeep of animal houses; items essential for safe operation of equipment (other than required utilities under (h) below) e.g. essential periodic replacement of furnace linings, pump bearings, etc
- d) Expendables: Chemicals, Glass Wares, Electronic components and other consumables.
- e) Travel: Details in proposal should show the purpose of travel.
- f) Contingencies: Includes office supplies, local transport, telephone/fax expenses, postage, etc. but should not include (h) below.
- g) Visiting Faculty or Research Consultants: Enter total annual remuneration in year-boxes. (Brief bio-data of proposed Visiting Faculty or Research Consultants must be included in the proposal.)
- h) Procured services (other than (g)) and metered utilities: Include here any charges for separately metered power consumed by heavy equipment (e.g. furnaces, compressors, etc.); commercial sample-testing; certification charges; charged time on shared or hired equipment outside the host institution and expenses towards advertising for equipment and recruitment of staff

**Note:** Neither DRDO nor institutions receiving this grant shall charge for use of their technical facilities.

**Item 11:** Identify payee in cheque, e.g. Registrar, Indian Institute of Technology, Delhi.

**Item 12:** Should get the signature and the seal of the Administrative Authority.

**Item 13:** Signature of the Applicant

Please send hard copy by Speed Post (Not Courier) to one of following

Director, Directorate of Extramural Research & Intellectual Property Rights,  
Defence Research & Development Organisation,  
Room No. 348, DRDO Bhawan, Rajaji Marg,  
New Delhi-110011  
Ph. (11) 23017661 Fax: (11) 23017582  
Email : erip\_er@hqr.drdo.in

Member secretary, Naval Research Board  
Defence Research & Development Organisation,  
Room No. 322, DRDO Bhawan, Rajaji Marg,  
New Delhi-110011  
Ph. (11) 23007322 Fax: (11) 23016640  
Email : sverma@hqr.drdo.in

Member secretary, Armament Research Board  
Defence Research & Development Organisation,  
Room No. 307, DRDO Bhawan,  
Rajaji Marg, New Delhi-110011  
Ph. (11) 23007307  
Email :

Member secretary, Life Sciences Research Board  
Defence Research & Development Organisation,  
Room No. 341, DRDO Bhawan, Rajaji Marg,  
New Delhi-110011  
Ph. (11) 23007341 Fax: (11) 23012652  
Email :

Member secretary, Aeronautics Research and Development Board  
Defence Research & Development Organisation,  
Room No. 323, DRDO Bhawan,  
Rajaji Marg, New Delhi-110011  
Ph. (11) 23017752 Fax: (11) 23007853  
Email : kuldeep@hqr.drdo.in