

TO EMPOWER THE PERSONS WITH DISABILITIES  
**MINISTRY OF SOCIAL JUSTICE AND EMPOWERMENT**  
**(DISABILITY DIVISION)**

INVITES RESEARCH PROPOSALS FOR DEVELOPMENT OF SUITABLE ASSISTIVE DEVICES FOR THE PERSONS WITH DISABILITIES UNDER ITS SCHEME OF 'SCIENCE & TECHNOLOGY PROJECT IN MISSION MODE'.

The objective of the Scheme is to design/develop suitable and cost effective aids & appliances to enhance the opportunities for persons with disabilities for a) Easier living and mobility, b) Communication, c) Recreation and d) Integration in society through education and skill development.

The organizations equipped with necessary infrastructure and flair of product development can submit proposals for 100% funding under the Scheme.

The detailed guidelines for submitting the project proposal, proforma of application can be downloaded from Ministry's Website <http://socialjustice.nic.in/disabled/welcome.htm>. Complete proposals in all respects may please be sent to Shri K S Sawhney, Director (Disabilities), Ministry of Social Justice and Empowerment, Room No 253A, A Wing, Shastri Bhawan, New Delhi – 110001. [E mail [dir-ddiii.wel@nic.in](mailto:dir-ddiii.wel@nic.in), Phone Number - 011-23387690 (O)].

# **S & T PROJECT IN MISSION MODE ON "APPLICATION OF TECHNOLOGY FOR THE WELFARE AND REHABILITATION OF THE HANDICAPPED"**

## **GUIDELINES FOR SUBMITTING PROPOSALS**

### **INTRODUCTION**

The Government of India has launched a Science & Technology Project in Mission Mode on "Application of Technology for the Welfare & Rehabilitation of the Handicapped" with the objective to coordinate, fund and direct application of technology in development and utilization of :-

- 1) Suitable and cost effective aids and appliances
- 2) Methods of education and skill development leading to enhancement of opportunities for:
  - a) Employment
  - b) Easier living and mobility
  - c) Communication
  - d) Recreation and
  - e) Integration in society

Studies have shown that only about 10-20% of the population with disability who need aids are able to get these. There are various reasons for this scenerio like nonavailability of right kinds of appliances, high cost of aids, their non compatibility with Indian conditions, inadequate production capacity and inadequate distribution, maintenance and promotive network. There is therefore a need for adopting an end to end approach beginning with R&D and ending with gainful utilization by the poorest of handicapped in all parts of the country.

Four Technical Advisory Groups (TAGs) have been set up for evaluating research and development proposals in the areas of four disabilities viz. visual, hearing, orthopaedic and mental. The area of cerebral palsy also falls within the purview of the mission. These groups have experts in these areas and representatives of concerned government departments and voluntary agencies as members. After the recommendations of TAGs, the proposals will be put up to the Apex Level Committee (ALC) for final approval. The ALC under the chairmanship of Secretary, Ministry of Social Justice & Empowerment has Secretaries of Department of Science & Technology, Deptt. of Electronics, Deptt.of Health, Planning Commission, Director General, ICMR, representative of SA to PM and representatives from voluntary agencies as members. The ALC will meet once in a quarter and will provide necessary guidelines and

directions for successful implementation of the project. It would review the financial, technical and physical progress of various projects. Monitoring of each project will be undertaken quarterly by the TAG and ALC. A half yearly review will be undertaken by SA to PM.

This document lays down the guidelines for submitting proposals for funding under this scheme. Chapter- I deals with eligibility, areas of research and procedure for submitting applications. Chapter-II deals with proforma for applications and other requirements and Chapter–III deals with Terms & Conditions of the Grants.

# **GUIDELINES FOR SUBMITTING PROPOSALS**

## **Chapter-1**

### **ELIGIBILITY OF APPLICATIONS**

The proposals could be submitted in the prescribed proforma by scientist(s)/ Engineer(s)/Researchers from - Academic and Research institutions, Public sector/private sector industries, Non-Governmental organisations having some basic and essential facilities to carry out the research programme. Such proposals could be submitted any time during the year.

### **AREAS OF RESEARCH SUPPORT**

The proposals could be in the areas identified in Annexure 'A'.

Financial support under the schemes are provided only for - Staff salaries, equipment, consumables, internal travel and other miscellaneous items. No support is provided towards basic infrastructure and building.

### **PROCEDURE OF APPLICATIONS**

All applications in the prescribed proforma should be forwarded through the Head of the respective agency/organisation/institution accompanying the following documents/ papers: -

-Endorsement from the Head of the agency/ organisation/institution on the letter head	1 copy
-Certificate from the Investigator	1 copy
-Detailed proposal as per the proforma	35 copies
-Name & Address of experts/institutions in the subject of the project (circulation list)	2 copies

All such applications/proposals and the necessary documents are to be addressed to :

The Director (Disabilities)  
Ministry of Social Justice & Empowerment,  
Room No. 253A, 'A' Wing',  
Shastri Bhawan,  
New Delhi-110001  
Phone - 23387690  
E-Mail – [dir-ddiii.wel@nic.in](mailto:dir-ddiii.wel@nic.in)

**AIDS FOR THE DISABLED**

**The Visually Handicapped :**

1. Interpoint Braille Slate
2. Hand and table magnifiers
3. CC TV with 8 to 16 times magnification
4. Telephone switchboard on the lines of the one developed at national Institute of Telematics, Bangalore.
5. Audio testing devices for circuits
6. Braille Shorthand Machine
7. OCRs with speech or Braille output adapted to Indian languages
8. Geometry Kit
9. A lighter for kerosene stove
10. A versatile braille writer
11. A standard cane specially designed for rural areas
12. Areas for improving employment opportunities to be identified.

**The Hearing Handicapped**

1. Hearing aids with minimal distortion
2. Simple screening devices
3. Delayed auditory feedback
4. P.M. Hearing aids
5. Low-Cost testers for batteries and cords
6. Monometer for impedance audiometer
7. Evoked response audiometer
8. Visual reinforcement audiometer
9. Tape recorders with variable speeds without change in pitch
10. Ear protectors
11. Captioning in the same language
12. Computer hearing aid testers

13. One way mirrors
14. Areas for improving employability to be identified.

### **The Orthopaedically Handicapped**

1. Development of appropriate orthosis for patients with post-polio paralysis, the paralyzing and aneesthetising effects of leprosy,
2. Development of modular lower extremity prosthesis.
3. Development of flexible socket.
4. Development of AK Prostheses to permit squatting and cross legged sitting.
5. Development of Polyurethane foam foot suitable to be used with shoes as well as bare foot
6. Development of light weight cosmetic hand.
7. Development of simple device for suspension and operation systems for functional upper extremity prostheses.
8. Development of multi-functional devices to carry out routine as well as specific activities.
9. Development of a light weight modular lower extremity orthosis by use of composite plastics material.
10. Development of aids for management of fractures.
11. Development of complete plastic functional terminal devices.
12. Development of powered wheel chair/tricycle.
13. Development of light weight and strong wheel chairs, preferably using composite plastic materials.
14. Modification of existing automobiles to make them suitable for use by the disabled.
15. Development of light weight mobility aids like crutches, walkers etc.
16. Development of test rigs for evaluating functional efficiency of aids and appliances and rehabilitation aids.
17. Development of sensory aids.
18. Reading, writing and other living aids for multiple disabled.
19. Areas for improving employability to be identified.

## **CHAPTER - II**

### **PROFORMA FOR APPLICATION AND OTHER DOCUMENTS**

Following proforma for application and other documents required for the submission of project proposals for financial support to the Ministry are attached herewith.

- Certificate from the investigator (Proforma-I)
- Endorsement from the Head of the Institution (Proforma-II)
- Format for submission of projects (Proforma-III)

The applications received without any of the Proforma or without complete information under each item will not be entertained.

## PROFORMA-I

### CERTIFICATE FROM THE INVESTIGATOR(S)

**Project Title :**

1. I/We carefully read the terms and conditions of the research grant and agree to abide by them.
2. I/We did not submit the project proposal elsewhere for financial support.
3. I/We have explored and ensured that equipment and basic facilities (enumerated in Section 440) will actually be available as and when required for the purpose of the project. I/We shall not request financial support under this project, for procurement of these items.
4. I/We undertake that spare time on permanent equipment (listed in Section 404) will be made available to other users.
5. I/We have enclosed the following materials :

Items	No. of copies
a) Endorsement from the Head of Institution (on letter head)	1
b) (This) Certificate from Investigators	1
c) Details of the proposal from Section 101 to 700	35
d) Name & Address of experts/institutions interested in the subject/outcome of the project (circulation list)	2

*Name and Signature of Investigator*

Date : .....

Place : .....

**PROFORMA-II**

**ENDORSEMENT FROM THE HEAD OF THE INSTITUTION**

**PROJECT TITLE:**

1. Certified that the Institute welcomes participation of Shri/  
Smt.....  
as the Principal Investigator and Shri/Smt.....  
as the Principal Co-investigator for the project and that in the unforeseen event of  
discontinuance by the Principal Investigator, the Principal Co-Investigator will assume the  
responsibility of the fruitful completion of the Project.
2. Certified that the equipment and other basic facilities as enumerated in Section 440 and  
such other administrative facilities as per terms and conditions of the grant will be  
extended to the investigator(s) throughout the duration of the project.

Date : .....

Place : .....

*Name and Signature of  
the Head of Institution*

## PROFORMA-III

### FORMAT FOR SUBMISSION OF RESEARCH PROJECT

101. Name of the Project
102. Broad discipline
  - (a) Visually Handicapped
  - (b) Hearing Handicapped
  - (c) Orthopaedically Handicapped
  - (d) Mentally Handicapped
103. Total cost including foreign exchange (Rupees)
104. Foreign exchange component in equivalent (Rupees)
105. Project duration (Months)
111. Lead implementing, agency where the work will be carried out, with full address, telex and telephone number, etc.
112. Name of Project Investigator and designation
113. Address and telephone number/E.mail address
114. Name of Co-investigator(s) and designation
115. Address and telephone number/E.mail address
116. Brief write up on the lead implementing agency (experience and expertise in the area)
117. Collaborating agency, with full address, telex, telephone number, cable, etc.
201. Abstract of the Project (maximum 300 words)
202. Kev Words (maximum 6)
203. Introduction
211. Review of Status (800 to 1000 words)  
covering the following :
  - Nature of technology development proposed.
  - International status of development and future programmes.
  - Current status of technology in India.

-Gaps to be covered with special reference to the proposal.

230. Technical details :

-Objectives

-Justification (necessity and importance of the solution)

-Principal applications (including spin offs).

-Estimated/Expected demands.

-Approach (discuss different methodologies with reference to the one being adopted)

-Field Trials of prototypes.

(i) proposed methodology;

(ii) total number of prototypes/patients proposed for field trials;

(iii) proposed places for field trials.

-Likely economic of development.

-Role of collaborating agency and its commitment to the project.

300. Work Schedule :

Furnish BAR chart indicating important activities and time duration from start to end.

400. Budget Estimates :

(Following break-up to be given)

401. Manpower:

Designation	No. of persons	Qualifications	Salary per month (Rs.)	Total for the Project (Rs.)
-------------	----------------	----------------	------------------------	-----------------------------

402. Consumables:

Details of Consumables	Quantity Year-wise	Total Amount (Rs.)
------------------------	--------------------	--------------------

403. Travel expenses (year wise)

404. Permanent equipment:

Equipment	Number	Unit Price (Rs.)	Total Cost (Rs.)
-----------	--------	------------------	------------------

405. Contingency (year wise)

(to include typing, stationery, etc.)

406. Computer time charges.

407. Maintenance expenditure.

408. Expenses towards the services of collaborating agency, if any (year-wise)

420. Justification for the expenditure asked for.

- 421. Manpower
- 422. Equipment
- 423. Consumables
- 424. Travel
  
- 440. List of facilities available in the institution for carrying out the subject project proposal.
  
- 500. Bio-data of Investigator:
  - Name
  - Qualification
  - Date of Birth
  - Experience
  - Awards received
  - List of Project completed indicating briefly the outcome of the project.
  - List of papers published in the related field.
  - Books published, if any.
  
- 600. Research project currently with the Investigator(s):
  - Title of the Project
  - Duration and date of commencement of the project
  - Status
  - Cost
  - Funding agency.
  
- 650. Previous projects funded by Ministry of Social Justice & Empowerment
  - Project name
  - Duration
  - Starting date
  - Sanctioned project cost
  - End results
  
- 651. Project funded by any other agency :
  - Project name
  - Duration
  - Starting date
  - Sanctioned project cost
  - End results
  
- 700. Any other remarks

**CHAPTER-III**  
**TERMS AND CONDITIONS OF THE GRANTS**

1. Approval shall always be for a specific project and shall be utilised only for the purpose for which it is sanctioned. Where the entire cost of the project has been sanctioned, it shall not be open to the institute to obtain assistance for the same project from other sources.
2. For permanent, semi-permanent assets acquired solely or mainly out of the grant and audited record in the form of register in the prescribed proforma 1 (enclosed) shall be maintained by the grantee institution. Term 'assets' means (i) immovable property of a capital nature, where the value exceeds Rs. 1.000/-. The grant will not be utilised for construction of any building. Full facilities by way of accommodation etc. for the project will be given by the grantee institution.
3. All the assets acquired from the grant will be the property of Government of India and should not be disposed of without the prior sanction of Ministry of Social Justice & Empowerment of encumbered or utilised for purpose other than those for which the grant has been sanctioned.
4. At the conclusion of the project, the Government of India will be free to sell or otherwise dispose of the assets which are the property of Government. The Institute shall render to Government necessary facilities for arranging the sale of these assets. The Government of India has the discretion to gift the assets to the institute, or transfer them to any other institute if it considers it appropriate.
- 5.(a) The Institute will be required to furnish progress reports (as per proforma 2, enclosed) every three months on the progress made on all aspects of the project including expenditure incurred on various approved items during the period.
- 5.(b) PI should forward the detailed PERT network within one month of the date of sanction. Officials/representatives of Mission Directorate, Ministry of Social Justice & Empowerment will have the right to visit the site as deemed fit.
6. The Institute is required to send to Ministry of Social Justice & Empowerment at the end of each financial year, a list of assets referred to in para (2) above, a statement of accounts alongwith progress report at the time of seeking further instalment of the grant. Carry forward of unspent funds to the next financial year for utilisation of the same project may be considered only with specific approval of Ministry of Social Justice & Empowerment.
7. The Institute would furnish to Ministry of Social Justice & Empowerment a Utilisation Certificate and an audited statement of accounts pertaining to the grant immediately at the end of each financial year.

8. The Controller & Auditor General of India at his discretion shall have the right to access to the books and accounts of the Institute for grant received from the Government.
9. The Institute would maintain separate audited accounts for the Project. It is found expedient to keep a part of whole of the grant in a bank account earning interest, the interest thus earned should be reported to the Ministry of Social Justice & Empowerment. The interest thus earned will be treated as a credit to the institute and adjusted towards further instalment of the grant.
10. Sale proceeds, if any, shall be retained by the institute under intimation to the Ministry of Social Justice & Empowerment. The amount could be adjusted against further instalment due to the institute. However, any amount left at the end of the project shall be refunded to the Ministry of Social Justice & Empowerment.
11. Investigators wishing to publish papers based on the research work done under projects funded by the Ministry of Social Justice & Empowerment should acknowledge the financial support received from the Ministry of Social Justice & Empowerment indicating the name of the scheme.
12. In no case the Institute should entrust the implementation of the work, for which the grant is being sanctioned to another institution and divert the grant receipts as assistance to later institution. In case the Institute itself is not in a position to execute or complete the project, it is required to refund forthwith to the Government of India, the entire amount of grant-in-aid received by it. In exceptional cases, this condition may be relaxed by the Government of India.
13. The staff that may be employed for the project by the Institute/Organisation are not to be treated as employees of the Government of India and the deployment of such staff at the time of termination of the project will not be the concern/responsibility of the Government of India. They will be subjected to administrative control and service rules as applicable (leave, TA & DA etc.) of the institute where the project is based. For the expeditious implementation of the research projects, the Investigator-Incharge will take the assistance of the concerned institute in the process of selection and appointment of staff and payment to them. In case of any special posts, rates of salary may be decided by the Ministry of Social Justice & Empowerment.
14. The Ministry of Social Justice & Empowerment reserves the right to terminate the grant at any stage if it is convinced that the grant has not been properly utilised or appropriate progress is not being made. In the event, the Ministry terminates the grant, the grantee shall refund the unspent amount to the Ministry of Social Justice & Empowerment, and also hand over all documents including technical details, equipments purchased as related to research work.
15. If the Principal Investigator to whom a grant for a project has been sanctioned wishes to leave the institution where the project is based, the institute/investigator will inform the same to the Ministry of Social Justice & Empowerment and with it's consultation evolve

- steps to ensure successful completion of the project, before relieving the Principal Investigator. The investigator should submit five copies of complete and detailed rent of the work done by them on the project with the date of his/her release.
16. The know-how generated as a result of the Ministry of Social Justice & Empowerment funded scheme, shall be the property of Government of India. The Institute shall not take commercial use of the result of his work, unless permitted to do so by the Ministry of Social Justice & Empowerment.
  17. For all the successful Ministry of Social Justice & Empowerment funded technology, the Ministry of Social Justice & Empowerment has the right to transfer the technology to any party it wishes through the assistance of any Government agencies.
  18. The Patent application, if any regarding the know-how shall be filed jointly by the NRDC and the Institution concerned, after taking the necessary permission/approval of Ministry of Social Justice & Empowerment.
  19. Wherever necessary, institution shall give to Ministry of Social Justice & Empowerment the required information which may be necessary for preparing a preliminary technical note for licensing purposes.
  20. The Government of India, Ministry of Social Justice & Empowerment, will have the right to call for drawing, specifications and other data at any time deemed necessary and the Pi/Institute is liable to supply it.
  21. The grantee institute ensure that all the scientists doing research and development work should keep clear and proper records of the daily work done by them in respect of the Ministry of Social Justice & Empowerment funded project. The pages in the diary should be consecutively numbered and the entries made therein are signed and dated by the scientist and the project investigator for any future reference to be made by Ministry of Social Justice & Empowerment.
  22. The project would become operative one month from the date of letter dispatching the bank draft to the Registrar/grantee institute. Requer\* for change in this date will not be entertained under any circumstances. The PI should place the order for the equipment within one month of receiving the sanction letter from Ministry of Social Justice & Empowerment or within the validity period of the quotation whichever is earlier to avoid escalation in cost of the equipment.
  23. The PI is required to submit the completion report including all experimental data and results, details software/hardware development drawings, etc. to the Ministry of Social Justice & Empowerment at the completion of the project.

**PROFORMA FOR MAINTAINING ASSETS**

Assets acquired wholly or substantially out of Government Grants, Register maintained by grantee Institution

**Name of the Sanctioning Authority**

S. No.	Name of the Grantee Institution	No.& Date of sanction	Amount of the sanctioned grant	Brief purpose of Grant	Whether any condition regarding the ownership of Govt on the property or other acquired out of the grant was incorporated in the grants-in-aid sanction	Particulars of facilities actually acquired	Value of assets	Purpose for which utilized	Encumbered or not	Reasons if encumbered	Disposed or not	Reasons and authority if any for disposal	Amount realized on disposal	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

**QUARTERLY PROGRESS RFEPORT FOR THE PERIOD.....**

1. Mission (MSJ&E) Ref No :
2. Title of Project Proposal :
3. PL's name & address :
4. Total cost of the peroject :
5. Amount sanctioned  
(with date of sanction)  
for the financial year.....: :
6. Broad work plan for the quarter.....  
reflected in PERT :
7. Work completed during the quarter..  
..... :
8. Work Plan for the next quarter..... :
9. Any other relevant information PI  
would like to furnish :

**Signature of the PI**