

Ministry of New and Renewable Energy

Proforma for Submission of New R&D and Technology Development Projects

Part-A: Information at a Glance:

Sl. No.	Item	Details
I.	Project Title:	
1.	Title i) Project Title ii) MNRE File No. (to be filled by MNRE) iii) Project code (system generated)	
II.	Project type/ Technology Area, Summary and Objectives:	
2.	Project type:	i) Basic Research ii) Lab Scale Model Development iii) Prototype Development iv) Pilot Scale Development v) Pre-Industry Model Development vi) Technology Demonstration vii) Field Performance Evaluation viii) Technology Forecasting ix) Technology Assessment x) Technology Benchmarking xi) Resource Assessment xii) Standards Development xiii) Status Report Preparation xiv) Technical Assessment/ Audit xv) Solar Passive Building designs and Systems xvi) Others
3.	Technology Area:	i) Hydrogen ii) Chemical Sources/ Fuel Cell iii) Solar Photovoltaic iv) Solar Thermal v) Small Hydro Power vi) Biomass vii) Biogas viii) Wind ix) Bio-Fuel x) Geothermal

		<ul style="list-style-type: none"> xi) Ocean Energy/Tidal Power xii) Urban Waste xiii) Industrial Waste xiv) Hybrid Systems xv) Newer Technologies xvi) Carbon Nano Tube based Systems xvii) Electric/ Hybrid/ Fuel Cell Vehicles xviii) Others
4.	Project Summary:	
5.	Definition of the Problem and Project Objectives	<ul style="list-style-type: none"> i) Definition of the problem ii) Broad Objectives iii) Specific objectives
III	Status of Work being done in other Institutions/ Industries:	
6.	Status of Work being done: <ul style="list-style-type: none"> i) National ii) International iii) Patent search Reports iv) Exprtise available with PI/GROUP/ Institution/ Industry 	
IV	Implementing Institution(s)/ Industry(s):	
7.	Name of implementing institution(s)	
8.	Name of collaborating/ participating industry	
9.	Name of Principal Investigator	
10	Name of co-Principal Investigator(s)	
11.	Address of implementing institution(s): postal address, phone, fax, e-mail, website	
12.	Address of collaborating/ participating industry: postal address, phone, fax, e-mail, website	
V.	Implementation Period:	
13.	Proposed duration <ul style="list-style-type: none"> i) Phase-I ii) Phase-II 	
14.	Financial Year	
15.	Date of Submission	

16.	Date of Receipt in MNRE						
17.	Proposed cost:	Sl. No.	Item	Amount (Rs.)			
				Total Cost	First Year	Second Year	Third Year
		1.	Equipment				
		2.	Manpower				
		3.	Consumables				
		4.	Contingencies/ Other Costs				
		5.	Travel				
		6.	Consultancy				
		7.	Institutional Overhead charges				
		Total					
18.	MNRE share						
19.	Participating Industry(s) share						
20.	Participating Institution(s) share						
VII	Project Status:						
21.	Status of project: i) New ii) Revised/ Under consideration						
VIII	Proposed Output:						
22.	Material development	i) Quantity ii) Purity iii) Other features					
23.	Lab Scale model development	i) Capacity ii) Power Output iii) Energy output iv) Efficiency v) Cycle Life vi) Life vii) Other features					
24.	Prototype development	i) Capacity ii) Power Output iii) Energy Output iv) Efficiency v) Cycle Life vi) Life and vii) Other features					

25.	Pre-Industry Model Development	<ul style="list-style-type: none"> i) Capacity ii) Power Output iii) Energy Output iv) Efficiency v) Life vi) Field Performance vii) Other features
26.	Technology Demonstration/ Field Evaluation	<ul style="list-style-type: none"> i) Capacity ii) Power Output iii) Energy Output iv) Efficiency v) Field Performance Data vi) Projected life and vii) Other features
27.	Standards Development	<ul style="list-style-type: none"> i) Testing Protocols/ Procedures ii) Performance Standards iii) Firming up of specifications iv) Aesthetics v) Other aspects
28.	Research Papers/ Technical Documents/ Reports (likely)	<ul style="list-style-type: none"> i) Indian Journals ii) International Journals iii) Others
29.	Training, Awareness Camps and Ph.D/ M.Tech. (likely)	<ul style="list-style-type: none"> i) Training ii) No. of Ph.D. iii) No. of M. Tech. iv) Awareness Camps
IX	IPR/ Patents/ (likely):	
30.	IPR/ Patent (likely)	<ul style="list-style-type: none"> i) Concept/ Idea patent ii) Process patent iii) Product patent iv) Copy-write v) Trade-mark
X	Technology/ Know-how Transfer (likely)	
XI	Project need and Justification	
31.	Need	
32.	Justification	
XII	Project Assessment	
33.	Assessment by Experts <ul style="list-style-type: none"> i) ii) iii) iv) v) 	
34.	Technical Assessment by	

	MNRE	
35.	Financial Assessment by MNRE	
36.	Overall Recommendations	

Part-B: Detailed Project Proposal

1. Project Title:
2. Name & address of Principal Investigator & Implementing Institution:
3. Name & address of Collaborative Investigators and Institutions:
4. Project Objectives:
 - i) Broad Objectives
 - ii) Specific Objectives
5. Project Duration:
- 6. Project Cost:**

i) Total Cost:

Sl. No.	Item	Amount			
		First Year	Second Year	Third Year	Total
1.	Equipment				
2.	Man power				
3.	Consumables				
4.	Contingencies/ Other Costs				
5.	Travel				
6.	Consultancy				
7.	Institutional Overhead charges				
Total:					

ii) Cost of Equipment:

Sl.No.	Generic name of the Equipment along with make & model	Imported/ Indigenous	Estimated Cost (in Foreign Currency @ also)*	Spare time for other users (in %)
1.				
2.				
3.				

*Includes transport, insurance and installation charges. @ imported equipment.

iii) Cost of Salaries/ Wages

Sl. No.	Designation/ Numbers	Monthly Emoluments	Amount (Rs.)			
			First year (m.m.*)	Second year (m.m.)	Third year (m.m.)	Total (m.m.)

*Man months to be given within brackets before the budget amount.

iv) Cost of Consumable Materials:

Sl. No.	Item	Quantity & Cost	Amount (Rs.)			
			First year	Second year	Third year	Total
1.		i) Quantity/ Number				
		ii) Cost (Rs. component)				
		iii) Foreign Exchange component in US \$				
2.						
	Total:	Cost: (Rs. Component)				
		Cost: (Foreign Exchange component in US \$)				

v) Contingencies/ Other costs:

Sl. No.	Contingency/ Other costs	Amount (Rs.)			
		First year	Second year	Third year	Total
1.					
2.					
3.					

vi) Cost For Travel:

Sl. No.	Travel (Domestic)	Amount (Rs.)			
		First year	Second year	Third year	Total

1.					
2.					
3.					

7. Cost sharing:
8. Status of work done on similar problem / topic by other groups:
 - iv) National
 - v) International
 - vi) Patent search reports (if any)
9. Details of projects implemented/ under implementation/ under submission by the PI or co-PI or the implementing institution(s) sponsored by MNRE for funding during the last five years:
10. Justification of the proposed Project work in context of work being pursued by other groups in the country:
11. Work methodology:
12. Details of proposed 'Work Plan' including rationale for the proposed targets to be achieved vis-a-vis national and international achievements including details of prototype/ pilot scale plant and design of the product and drawing, process to be tested/ analyzed and evaluated, etc.:
13. Year-wise Activities/ Milestones, time schedule and PERT Chart:
14. Expected Output:
 - a) Details of proposed Scientific out put:
 - i) Technical Documents:
 - ii) Research Papers
 - iii) Technology Transfer
 - iv) Training
 - v) Awareness Camps
 - b) Product/ process quantifiable performance output proposed:
 - i) Standard/ Specification development
 - ii) Efficiency Improvement
 - iii) Product Improvement
 - iv) Process Improvement

- v) Power rating/ capacity enhancement
- vi) Ease of operation and Maintenance
- vii) Cost reduction
- viii) Others

15. Potential Users and suggested Plan of action for utilization of expected Project Output:

16. Existing infrastructural facilities and equipment with the PI(s) and host institution(s)/ Industry:

A) Status of Infrastructural Facilities Available:

Sl. No.	Infrastructural Facility	Yes/No/ Not required/ Full or sharing basis
1.	Workshop Facility	
2.	Water & Electricity	
3.	Laboratory Space/ Furniture	
4.	Power Generator	
5.	AC Room or AC	
6.	Telecommunication including e-mail & fax	
7.	Transportation	
8.	Administrative/ Secretarial support	
9.	Information facilities like Internet/ Library	
10.	Computational facilities	
11.	Any other special facility being provided	

B. Status of Equipment Available:

Sl. No.	Equipment available with	Generic Name of Equipment	Model, Make & year of purchase	Remarks including accessories available and current usage of equipment
1.	PI & his group			
2.	PI's Department			
3.	Other Departments			

4.	Other Institute/ Industry			
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17. Bio-data of PI and Co-PI:

18. Other R&D projects under implementation, which are funded by any other organization, where PI and Co-PI are participating:

Sl.No.	Title	Cost in Rupees	Duration Upto	Funding Agency

**Part C: Certificate from the Principal Investigator and Grantee organization
(On the letter head of the Organization)**

Project Title:

I am submitting the above titled project proposal to MNRE for financial support.

1. I/ We agree to abide by the terms and conditions of the MNRE research grant.
2. I/ We have not submitted the project proposal elsewhere for financial support.
3. I/ We have requested for funds for the items, which are not available with the institution for the proposed work and are absolutely essential.
4. I/ we will not proceed on long term/ study leave/ deputation during the period of project implementation, without prior permission from MNRE
5. I have enclosed the following documents/ materials:

Items

Number of copies

i) Similar certificate from Investigator(s)
from other participating institutions (if
any):

ii) Summary details of the proposal : 20

iii) Detailed proposal in hard copies: 20

iv) Electronic copy / CD: 03

v) Name and address of up to five experts/institution interested in the subject/ output of the project:

Date: Name and signature of Principal

Place: Investigator

Endorsement by the Head of the Institution

Certified that Project Proposal entitled “-----:” is prepared by Dr/Shri ----- and has not been submitted to any other institution for funding. The institute will provide necessary regular staff and infrastructure facilities for the project work and such facilities have not been requested in the proposal. The institute will ensure compliance of the terms and conditions of the financial grant by MNRE and other conditions of the project.

Place & Date

**Name, Signature and Seal of
the Head of the Grantee
Organization**