



- b) Please carry out a Literature and Patent search for Techno-Commercial Status of Proposed Research

Significance of undertaking the project in context of current status (in brief)

Does the project have any commercial application or patentability? (in brief)

04. Duration of Project

Sl. No.	Activity Block	Time Required (In months)

Note: A time activity chart may also be submitted indicating time schedule along with deliverables.

05. Budget (In Rupees)

A. Non-Recurring (e.g. equipment, accessories, etc.)

S. No.	Item	Year 1	Year 2
1			
2			
3			
4			
5			

**Total (A)**

B. Recurring

S. No.	Recurring Details	Year 1	Year 2	Total
1	Manpower			
2	Consumables			
3	Contingency			
4	Travel			

**Total (B)**

**Grand Total of Budget – ( A+ B ) \_\_\_\_\_**

Place		Name & Signature of Applicant	
Date		Name & Signature of Head of Host Institution with seal	

**Note:** Recurring expenditure should not exceed 15% of the proposed cost. AICTE support is only at a reasonable level to enable faculty members and research scholars in the project. AICTE expects that this support will result in a multiplier effects leading to major projects for support from other agencies. AICTE does not encourage hiring of secretarial manpower for the project.





c) Employment Record (from present to previous)

Organization	Period		Designation	Type of Experience (Teaching / Research / Industry / Others)	Nature of work	Pay Scale, Basic Pay & Total Emoluments
	From	To				

d) Field of Specialization:

--

05. Publication (mention only number of publications during the last five years with proof)

	National	International
Referred Journals		
Proceedings		
Books		
Patents		
Any other		

06. No. of Projects Completed / On-going as Chief Coordinator / co-investigator in the following format:

S. No.	Name of the Funding Agency (AICTE / Others)	Name of the Scheme	Programme Title	Year of Funding	Duration		Amount Sanctioned	Status Completed / Ongoing
					From	To		

Place		Name & Signature of Applicant	
Date		Name & Signature of Head of Host Institution with seal	

### SUMMARY SHEET FOR RPS

A	REGION	Refer Annexure I
B	STATE	Refer Annexure I
C	NAME OF THE INSTITUTE	
D	ADDRESS	
E	CITY	
F	PINCODE	
G	NAME OF DEPT.	
H	YEAR OF ESTABLISHMENT	Enclose the attested copy of first approval letter from AICTE.
I	ACCREDITATION BY NBA, (YES/NO)	if yes then enclose the attested copy of the letter from NBA,
J	NAME OF THE PRINCIPAL INVESTIGATOR	
K	E-MAIL ID OF THE PRINCIPAL INVESTIGATOR	
L	TITLE OF THE PROJECT	
M	PROJECT COST	GROUP IN WHICH PROPOSAL IS TO BE SUBMITTED
N	GROUP IN WHICH PROPOSAL IS TO BE SUBMITTED	Refer Annexure-II (Write group no. along with the subject)
O	TYPE OF INSTITUTE	Refer Annexure-III
P	ONGOING PROJECT, IF ANY (YES / NO)	

Place		Name & Signature of Applicant	
Date		Name & Signature of Head of Host Institution with seal	

## DISTRIBUTION OF ZONES AND STATES

REGION	REGION CODE	STATE/UNION TERRITORY	STATE CODE		
Central	CR	Madhya Pradesh	01		
		Gujarat	02		
		Chhattisgarh	03		
East	ER	Mizoram	04		
		Sikkim	05		
		Orissa	06		
		West Bengal	07		
		Tripura	08		
		Meghalaya	09		
		Arunachal Pradesh	10		
		Andaman and Nicobar	11		
		Assam	12		
		Manipur	13		
		Nagaland	14		
		Jharkhand	15		
		North	NR	Bihar	16
				Uttar Pradesh	17
Uttaranchal	18				
North West	NW	Chandigarh	19		
		Haryana	20		
		Jammu and Kashmir	21		
		New Delhi	22		
		Punjab	23		
		Rajasthan	24		
		Himachal Pradesh	25		
South	SR	Pondichery	26		
		Tamilnadu	27		
South Central	SC	Andhra Pradesh	28		
South West	SW	Karnataka	29		
		Kerala	30		
West	WR	Maharashtra	31		
		Goa	32		
		Daman and Diu	33		

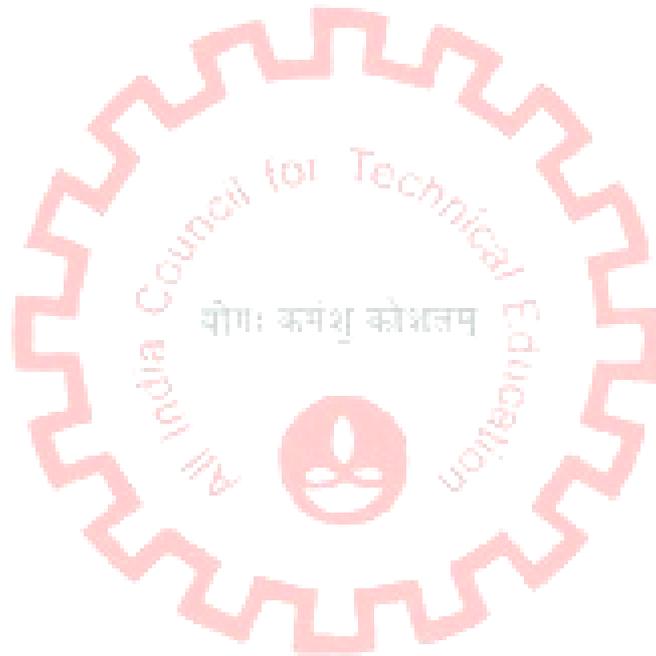
**Annexure-II**

<b>GROUP</b>	<b>Departments/Disciplines/Subjects</b>
<b>Group 1</b>	Biotechnology, Chemical Engineering
<b>Group 2</b>	Architecture & Town Planning, Civil Engineering, Fine Arts & Crafts
<b>Group 3</b>	Electrical, Electronics, Electronics & Communication and related subjects
<b>Group 4</b>	Computer Science/Technology/Engineering
<b>Group 5</b>	Mechanical Engineering
<b>Group 6</b>	Pharmacy
<b>Group 7</b>	Management
<b>Group 8</b>	Materials and Metallurgy
<b>Group 9</b>	Hotel Management and Catering Technology, Textiles, and Others



**TYPE OF THE INSTITUTION**

1. University department
2. Deemed University
3. Govt. Engg. College
4. Govt Aided Engg. College
5. Self-Financing Engg. College
6. North Eastern Region Institutes
7. Others (please mention)



## Suggested List of Thrust Areas Specific to Each Discipline

(Applicants should treat the following only as a representative list. Please note that other useful research areas are equally admissible.)

### Mechanical

- Vibration and noise control
- System integrity and maintenance
- Mechatronics
- Precision Engineering
- Nanotribology
- Concurrent engineering and design
- Dynamic design using structural dynamic
- Modification and model updating
- Smart materials applications
- Mechanical systems signal processing
- Condition monitoring and fault diagnosis

### Computer

- Video Transport Protocols over IP network.
- Multi-frequency Optical link.
- Optimization of ATM network using Traffic models.
- Scheduling of Tree networks.
- Genetic Algorithms for network traffic scheduling
- Data Compression and code optimization.
- Prot analysis and pocket prediction.
- Data mining.
- Routing algorithms for IPV6 networks
- Performance Analysis of IPV6 networks
- E-Commerce and weblogic.
- Web based Authoring tool development
- Designing an effective student model for web education.

### Biotechnology

- Bio process engineering
- Online measurement control system and development tools for current control.
- Calorimetry
- Bio informatics and software for data mining.
- Development of hardware for touch speed computation system and communication set ups.
- Domain software in hard core engineering subjects as civil engineering mechanical engineering etc. (this is framed in view of the than developing our own national skills in hard core technology.
- Development of instrumentation for biotechnology.
- Nano chemistry and truck design.
- Development of micro air raise system for Gene Screening.

### Architecture

- Sustainable urban growth and conservation of agricultural land.
- Internet for participatory education in Urban & Regional Development Planning.
- Rural roads and socio-economic development
- Coastal ecosystem and settlement planning.
- Peri-urban developments.
- Globalisation and real estate market.
- Energy conscious residential development.

- GIS application in urban planning. Participatory approach in Planning at Panchayat level-A planning and technological model.
- An IT model for District Development Plans under 73<sup>rd</sup> and 74<sup>th</sup> CAA.
- Expert system-urban eco-system for metropolitan areas.
- Role of Temple tanks and other water courses in ground water recharge of cities and towns.

### Civil

- **New Materials:** This would include development and evaluation of corrosion, fire and weather protective coating FRP Composites, HPC, waste based components wood substitutes.
- **Water Management:** Rain water harvesting, monsoon studies and problems of hill areas.
- **Natural Hazards:** This would include, earthquakes, landslides, cyclones, floods and droughts. Man-made Hazards: Fire & explosion in industrial plants, Transportation of Chemicals, Dam breaks, Probabilistic risks assessment.
- **Structural Engineering:** Cost effective components and construction technology. Health monitoring of structures, Durability & residual life estimation, CAD, Active control.
- **Architecture & Planning:** Energy efficient building, Heritage buildings and sites. Tourism Planning in hilly regions. Satellite technology in town planning, town planning in coastal regions.
- **Rural Technology:** Traditional materials for housing, clay materials, Animal power applications.

### Chemical:

- **Separation Science and Engineering:** Membrane Technology/Downstream processing/Reactive separations.
- **Interfacial Science and Engineering:** Thin Films
- **Particle Science and Technology:** Crystallization/Aerosols/Solids handling/Nano particles/Fluidised Beds.
- **Energy and Environment:** Fuel cell/Nobel reactors/Combustion/Biofuels/Cleaner and Clean-up Technologies/Process integration and intensification.
- **Engineered materials with tailored properties:** Particulates Polymers/Composites /Catalysts /Molecular theory for thermodynamic and transport properties.
- **Industrial Biotechnology:** Bio-informatics/ Genomics/ Proteomics.
- **Mathematical modeling and simulation:** Design/Optimization and control/Artificial intelligence and expert systems.
- **Mission-oriented projects:** Effluent treatment, Defence materials, Fuels for space application.
- **Clean Coal Technology**
- **Coal Bed Methane**

- **Gas Hydrates**
- **Fuel Cells**
- **Solar Photo Voltaics**
- **Eco-design**

**Pharmacy (herbal medicines):**

- Development of drugs and formulation for primary health children and women welfare.
- Microcomputerised identification of indigenous drugs and development of standards.
- Development of herbal medicines for chronic diseases like asthma, diabetes, rheumatism, paralysis, hypertension, skin diseases.
- Development of herbal medicines for viral diseases like TB, cancer, leprosy, Aids, herpes.
- Development of herbal medicines for circulatory diseases like leukemia, cardiotonica, hypertension.
- Screening, identification, propagation and processing of potential medicinal plants.
- Identification / investigation and formulation for personal care products.





b) Whether Nationally Coordinated Project is already functioning?  
(Yes/No), if yes give details:

--

**04. Budget (In Rupees)**

A. Non-Recurring (e.g. equipment, accessories, etc.)

S. No.	Item	Year 1	Year 2
1			
2			
3			
4			
5			

**Total (A)**

B. Recurring

S. No.	Recurring Details	Year 1	Year 2	Total
1	Manpower			
2	Consumables			
3	Contingency			
4	Travel			

**Total (B)**

**Grand Total of Budget – ( A+ B ) \_\_\_\_\_**

Place		Name & Signature of Applicant	
Date		Name & Signature of Head of Host Institution with seal	





07. Whether Industry Institute Partnership Cell is already functioning? (Yes / No) if yes

a) Give relevant details

--

b) If no, please give details of the proposed activity be undertaken

--

08. **Budget (In Rupees)**

A. Non-Recurring (e.g. equipment, accessories, etc.)

S. No.	Item	Year 1	Year 2
1			
2			
3			
4			
5			

**Total (A)**

B. Recurring

S. No.	Recurring Details	Year 1	Year 2	Total
1	Manpower			
2	Consumables			
3	Contingency			
4	Travel			

**Total (B)**

**Grand Total of Budget – ( A+ B ) \_\_\_\_\_**

09. Statistical Information about Intake and Performance of Students:

Period (Last 4 years)	Name of Department	Number of Students Admitted	Pass %age

11. Give particulars of Intent / Willingness shown by the Industry / Organization(s) to participate in setting up the proposed NAFETIC (Enclose copy of the letter showing intent of the Industry & details of Financial Commitment with probable dates of sanction)

Place		Name & Signature of Applicant	
Date		Name & Signature of Head of Host Institution with seal	





Increase in scope of old experiments conducted

Latest Development in Technology to be Demonstrated to Student

Whether assembly of components is to be done in house or complete package (Off-the-shelf item) is proposed to be purchased?

Specify Improvements in Project Work for which the Equipment could be used

06. Specify the other indirect benefits to students and staff expected

Activity / Event	Exiting		Proposed	
	2008-09 Value (in Lakhs)	2009-10 Value (in Lakhs)	2010-11 Value (in Lakhs)	2011-12 Value (in Lakhs)
Continuing Education Programmes				
Training for Industrial Worker				
Consultancy				

07. Please indicate through an Activity Chart schedule for Completion of Project.

08. **Budget (In Rupees)**

A. Non-Recurring (e.g. equipment, accessories, etc.)

S. No.	Item	Year 1	Year 2
1			
2			
3			
4			

**Total (A)**

B. Recurring

S. No.	Recurring Details	Year 1	Year 2	Total
1	Manpower			
2	Consumables			

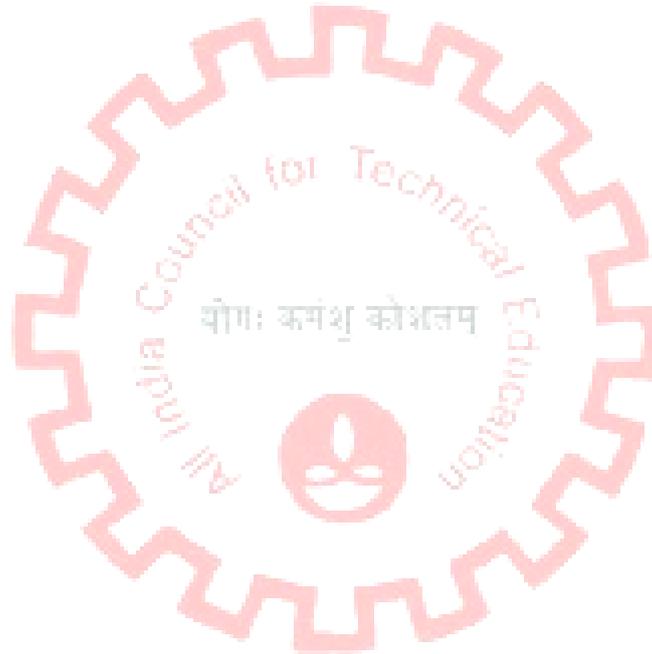
3	Contingency			
4	Travel			

**Total (B)**

**Grand Total of Budget – ( A+ B ) \_\_\_\_\_**

Place		Name & Signature of Applicant	
Date		Name & Signature of Head of Host Institution with seal	

**Note: AICTE would not be responsible for paying any Maintenance / Service Charges after completion of the Project**



**SUMMARY SHEET FOR MODROBS**

A	REGION	Refer Annexure I
B	STATE	Refer Annexure I
C	NAME OF THE INSTITUTE	
D	ADDRESS	
E	CITY	
F	PINCODE	
G	NAME OF DEPT.	
H	YEAR OF ESTABLISHMENT	Enclose the attested copy of first approval letter from AICTE.
I	ACCREDITATION BY NBA, (YES/NO)	if yes then enclose the attested copy of the letter from NBA,
J	NAME OF THE PI / HOD	
K	E-MAIL ID OF THE PRINCIPAL INVESTIGATOR	
L	TITLE OF THE PROJECT	
M	PROJECT COST	GROUP IN WHICH PROPOSAL IS TO BE SUBMITTED
N	GROUP IN WHICH PROPOSAL IS TO BE SUBMITTED	Refer Annexure-II (Write group no. along with the subject)
O	TYPE OF INSTITUTE	Diploma / Degree / Others
P	ONGOING PROJECT, IF ANY (YES / NO)	

Place		Name & Signature of Applicant	
Date		Name & Signature of Head of Host Institution with seal	

## DISTRIBUTION OF ZONES AND STATES

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		Sikkim	05		
		Orissa	06		
		West Bengal	07		
		Tripura	08		
		Meghalaya	09		
		Arunachal Pradesh	10		
		Andaman and Nicobar	11		
		Assam	12		
		Manipur	13		
		Nagaland	14		
		Jharkhand	15		
		North	NR	Bihar	16
				Uttar Pradesh	17
Uttaranchal	18				
North West	NW	Chandigarh	19		
		Haryana	20		
		Jammu and Kashmir	21		
		New Delhi	22		
		Punjab	23		
		Rajasthan	24		
		Himachal Pradesh	25		
South	SR	Pondichery	26		
		Tamilnadu	27		
South Central	SC	Andhra Pradesh	28		
South West	SW	Karnataka	29		
		Kerala	30		
West	WR	Maharashtra	31		
		Goa	32		
		Daman and Diu	33		

**Annexure-II**

<b>GROUP</b>	<b>Departments/Disciplines/Subjects</b>
<b>Group 1</b>	Biotechnology, Chemical Engineering
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<b>Group 5</b>	Mechanical Engineering
<b>Group 6</b>	Pharmacy
<b>Group 7</b>	Management
<b>Group 8</b>	Materials and Metallurgy
<b>Group 9</b>	Hotel Management and Catering Technology, Textiles, and Others



**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
7<sup>th</sup> Floor Chander Lok Building, Janpath, New Delhi-110 001



**ENTREPRENEURSHIP DEVELOPMENT CELL (EDC)**

01. Name of the Chief Coordinator

02. Any Entrepreneurship training undergone by the Chief Coordinator

03. Objectives of Proposed EDC

04. Activities carried out in the last 5 years.

05. **Budget (In Rupees)**

A. Non-Recurring (e.g. equipment, accessories, etc.)

S. No.	Item	Year 1	Year 2
1			
2			
3			
4			
5			

**Total (A)**

B. Recurring

S. No.	Recurring Details	Year 1	Year 2	Total
1	Manpower			
2	Consumables			
3	Contingency			
4	Travel			

**Total (B)**

**Grand Total of Budget – ( A+ B ) \_\_\_\_\_**

06. Status of ongoing Entrepreneurship Development Activities (if any)

S. No.	Year	Title	Funding Agency	Amount Sanctioned & Year of Sanction	Ongoing / Completed

07. Information about faculty members. Indicate if any faculty member possesses experience or training in entrepreneurship (Specifically Chief Coordinator)

S. No.	Name	Designation & DOJ	Highest Academic Degree	Specialization	No. of years of Experience	Pay-Scale

08. Name and address of Industries where possible interaction (R&D / Sponsored Project Consultancy / Related Services) in the specific areas can be developed.

S. No.	Name & Address of Industries	Areas	Type of Interaction

09. Grant generated during last 3 years through collaboration / Industry-Institute Interaction.

S. No.	Industry / Agency	Amount	Date of Starting	Date of Completion

10. Details of the Proposed Cell

Objective of Cell

Activities Undertaken / In Progress

Activities Proposed

Any other information to support the proposal

Place		Name & Signature of Applicant	
Date		Name & Signature of Head of Host Institution with seal	





Name of the industry / industries	
Size of the industry (Turnover and employee size)	
Nature of Industry	

No. of managerial personnel with their designation & qualification experience				
S. No.	Name of Managerial Personnel	Designation	Qualification	Experience

06. Activities during last 3 years through collaboration / Industry-Institute Interaction

S. No.	Industry / Agency	Amount	Date of Starting	Date of completion

07. Budget (In Rupees)

A. Non-Recurring (e.g. equipment, accessories, etc.)

S. No.	Item	Year 1	Year 2
1			
2			
3			
4			

**Total (A)**

B. Recurring

S. No.	Recurring Details	Year 1	Year 2	Total
1	Manpower			
2	Consumables			
3	Contingency			
4	Travel			

**Total (B)**

**Grand Total of Budget – ( A+ B ) \_\_\_\_\_**

08. Any other information to support the proposal:

--

Place		Name & Signature of Applicant	
Date		Name & Signature of Head of Host Institution with seal	





10. Details of Expenditure & assistance requested from AICTE. (ceiling of Rs. 1 Lac.)

Head	Total Expenditure	Assistance provided by other agency	Assistance requested from AICTE
Air Fair (excursion Economy class only) (copy of certificate from Air India to be attached)			
Registration Fee (Equivalent in Indian Currency only)			
Per Diem Allowance			
<b>Total Expenditure</b>			

11. Particulars of financial Assistance acquired/being acquired from other funding agencies.

Funding Agency Name	Air Fare		Registration Fee		Per diem		Remarks
	Requested	Sanctioned	Requested	Sanctioned	Requested	Sanctioned	

Place		Name & Signature of Applicant नाम: कमलेश कुमार	
Date		Name & Signature of Head of Host Institution with seal	





04. Details of Proposed Event

Details of Proposed Sessions

Name, address of resource persons delivering Keynote / Plenary / Invited Lectures with theme

05. Name & Designation of Chairperson and Members of the Organizing Committee

Sl. No.	Name	Designation
1		
2		
3		

06. Whether any other such events were fulfilled by the organization / institution earlier during the least three years?  
(if yes, please give details)

--

a) Whether this funded by AICTE (Yes / No)

(if yes) AICTE File Ref. No.

c) Amount grant received Rs.

--

d) If yes, whether Utilization Certificate submitted or not?

07. a) Estimate of Expenditure (Please enclose details)

Details	Cost

b) Assistance / Facilities provided by the host institution (Give Details)

c) Whether any grant received from Agencies / Organizations other than AICTE for the proposed activity (if yes, please enclose copy of approval letters)

Funding Agency Name	Total Grant Received from Agency

Place		Name & Signature of Applicant	
Date		Name & Signature of Head of Host Institution with seal	





7 a) Whether the activity was funded by AICTE (Yes/No)

(if yes) AICTE File Ref. No.

Programme Date	
From	To

c)

d) Number of Participants attended

e) Amount of grant received Rs.

f) Whether Utilization Certificate submitted or not?

Place		Name & Signature of Applicant	
Date		Name & Signature of Head of Host Institution with seal	









**03. Nature of Work**

Title of the work

Specify Major Area / Theme to be undertaken during the tenure of the Career Award

Teaching

Research

Development, Design and Fabrication

**04. Details of Proposed Plan of Work**

Activity Plan

Time Plan (Chart)

Expected Outcome

Plan of Proposed work

Significance (Max. 150 words)

Soundness (in the form of PERT/CPM)

Proposed Methodology (Max. 150 words)

05. Prospects of expected outcome

Commercial	Patent

06. Likely impact / expected outcome

To Academics	To Industries	To Society

07. Whether the Institution has agreed to extend facilities to carry on work (attach a copy of the letter from the concerned authority granting the permission) (YES/NO)

Place		Name & Signature of Applicant	
Date		Name & Signature of Head of Host Institution with seal	





05. Institutional Facilities (Please write YES / NO)

Whether the facilities / equipment etc. necessary for the proposed work are already available in the Host University / Institute	Whether the institution has agreed to extend facilities to carry out the work (attach a copy of the letter from the Executive Authority Granting Permission)

06. Doctoral (Ph.D) candidates guided

a)	Total Number of Students Guided	
b)	Number of Doctoral Thesis Evaluated	

07. Any other relevant information

--

Place		Name & Signature of Applicant	
Date		Name & Signature of Head of Host Institution with seal	