

St. PETER'S UNIVERSITY

St. Peter's Institute of Higher Education & Research
(Declared under Section 3 of the UGC Act, 1956)
Avadi, Chennai 600 054, Tamil Nadu

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Scheme for Providing Support for
"Entrepreneurial and Managerial Development of
SMEs through Incubators"

(Approved by Ministry of Micro, Small &
Medium Enterprises)

INVITATION FOR SUBMISSION OF PROPOSALS

Applications are invited from entrepreneurs/incubatees for the above scheme before 10th July 2009. The application form can be downloaded from website. Clarifications may be obtained from Dr.D.S.RamachandraMurthy, Dean (R&D), Ph.044-26558089. Mobile:9840949115.

REGISTRAR

APPINDIX-I

Application of Entrepreneurs / Incubatee

1.	Applicant Information	
A)	Applicant (entrepreneur) name	
B)	Age	
C)	Educational Qualifications	
D)	Postal Address	
E)	Telephone/mobile	
F)	Fax:	
G)	Email:	
H)	Website (if any)	
I)	Current professional /employment status	
2.	Company Information	
A)	Have you registered a company, give details	
B)	Name of applicant company/firm	
C)	Location from which company is operating	
D)	Relationship with the Business Incubator/ Host Institute	
E)	Company sector	Manufacturing/ Services
F)	Investment in plant and machinery (For manufacturing sector)/ Investment in equipment (For services sector)	Rs _____ lakhs
G)	Company type: Definitions are given in http://www.dcmsme.gov.in/ssiindia/defination_msme.htm	Micro/Small/ Medium
3.	Project Information	
A.	<i>Details of proposed idea/ innovation</i>	
A1)	Title of the technology/innovation	

A2)	Category of technology/ innovation (specify process/ product/ new application / other)	
A3)	If the idea involves use of existing intellectual property, give details of the owner of the same and arrangements of sourcing the innovation and terms of its commercialization	
A4)	Specify the potential areas of application in industry/market	
A5)	Specify newness/ uniqueness of the innovation (better performance/ new features/ improvements)	
A6)	What is already available in market? What is the market potential? . What value it would add in market	
	B. Current Development Status of innovation	
B1)	What is the current development status of the innovation / product or service offerings? (Whether still an idea or ready to launch).	
B2)	Idea readiness level (as per http://en.wikipedia.org/wiki/Technology_Readiness_Level)	
B3)	Specify the time period in months required for innovation to be completely developed for field testing / ready for intended end-user?	
	C. Financial requirements	
C1)	Do you have a business plan for taking innovation from lab to market? (attach business plan in your own format)	
C2)	What level of funding is required for making innovation market ready?	Rs _____ Requested under the MoMSME scheme
C3)	Please give activity wise break-up (Activities include design/prototype development/lab/bench scale production /professional services/hiring staff/ trials/test marketing/ miscellaneous)(use annexure if space is not sufficient)	

4.	Other Related Information	
A)	Are there any team members/partner and mentors/guides in your innovative project. If so give name and complete contact address with phone and e-mail)	
B)	Information on Patents filed/granted (if any)	
C)	Any awards or recognition related to the innovation	
D)	Please include any further information that you wish to communicate to us to help us in judging your application	
5.	Other	
	I,....., here by certify that the information furnished in the application form from Item 1-4 is true, complete and best to my knowledge.	
	Date and Place:	Signature of the applicant
6.	Recommendations of the forwarding organization:	
	Has the application been screened and evaluated at local level. Give details.	
	Date and Place:	Signature of the Head of organization with seal

St. Peter's Engineering College

Avadi, Chennai 600054

Scheme for Providing Support for

“Entrepreneurial and Managerial Development of SMEs through Incubators”

PROJECTS IDENTIFIED :

1. Integrated starter generator for automobile using induction machine – Electrical Engineering Department

In conventional automobile, there is a separate starter motor for cranking and an alternator for generation to charge the batteries and supply power to auto electrical accessories while the automobile engine is running. The proposed integrated starter generator (ISG) combines the operation of starter motor and alternator in a single unit. The system will be more robust, maintenance free and facilitates economic operation of automobiles.

2. Solar powered PV module to micro grids – Electrical Engineering Department

The solar power PV module consisting of solar power panels, converters and synchronizing can work with micro grid at 415V, 50Hz, 3 phases with power levels of a few kW. The converters can be integrated with solar panel with all necessary controls for synchronizing with the micro grid available in the house. Only initial investment, no recurring cost. Suitable for office complexes, hotels, hospitals etc.

3. Hybrid Bike – Mechanical Engineering Department

At present petrol bikes using IC engines or scooters running on battery are under production. Hybrid bike can run on both petrol and batteries.

4. Solar-powered vehicle for in-campus transportation – Mechanical Engineering Department

The vehicle will be powered by solar energy. Solar array collects and converts the Sun's energy into usable electrical energy and stores into batteries of the vehicle. Light vehicle, easy mobility and less noise are the advantages ideally suited for mobility of officials, visitors and staff inside campus.

5. Special Purpose Machine for Multi Angle and Multi Diameter Bending Of Pipes – Production Engineering Department

Bending occurs when forces are applied to the localized areas in a piece of metal at right angle. In all bends, the metal is stressed beyond the elastic limit in tension on the outside and in compression on the inside of the bend. The machines currently available in the market require more effort for bending, create more noise and require very highly skilled labour for bending operation. They form puckers and flattening of walls. Pipes of varying diameters cannot be bend to various angles. Fabrication units dealing in furniture and automobile spares, manufacturing industries and companies manufacturing cooling and heating columns require an economical and efficient pipe bending machine for mass production. Hence there is a need for fabrication of new machine, which is suitable for bending pipes of different diameters at different angels.

6. Ferrocement technology for building construction – Civil Engineering Department

Ferrocement is a type of thin wall reinforced concrete commonly constructed of hydraulic cement mortar reinforced with closely spaced layers of continuous and relatively small size wire mesh. Besides boats and marine structures, ferrocement is used for housing units, water tanks, grain silos, roofing components, irrigation channels etc. Ferrocement can also be used as permanent formwork to protect concrete structures in aggressive environment.

7. Concrete blocks using 100% fly ash and no cement – Civil Engineering Department

Geopolymer is an inorganic alumino-silicate polymer synthesized from predominantly silicon (Si) and aluminium (Al) materials of geological origin or by-product materials such as fly ash. They can be used as a substitute for cement in concrete. Solid or hollow concrete blocks can be produced using Geopolymer concrete for use in construction. Solid or hollow concrete blocks can be used for walls. Hollow concrete blocks can be used along with precast joist s for roofs.