

TePP e-NEWS

(Technopreneur Promotion Programme, an initiative of DSIR, Govt. of India)

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TePP - India's largest open innovation network program



Dr. C. Amarnath

**Chairperson,
TePP Screening Committee**

“I took over the position of Chairperson of the TePP Screening Committee about three years ago. By then I was familiar with the innovation scene amongst college students, given my own efforts at encouraging students to innovate. The talent exists, but there has been a dearth of innovations from this section of youth, many of whom begin their innovative activities later after graduation. Then there are the citizens at large who do innovate but are not easily visible. They lack funds and other assistance which would enable them to be visible and carry their innovations to the market. For those belonging to several R&D organizations funding from the government was mostly towards research and a few enterprising individuals carried the fruits of their innovative research forward. But the common man had no such luxury!

Very few realize the dimension of the program(s) initiated or funded by the Govt. of India for tapping the potential of "Creative India". These programs are unique and to my knowledge very few countries have established such programs. Programs like TePP fund individual innovators as opposed to other national programs which fund researchers affiliated to recognized institutions. There is an inherent risk in funding individuals yet our Ministry of Science and Technology (MOST) felt that such a program is essential to tap the vast creative potential in the country.

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Few governments in the world are willing to fund "risk" and hence this step represents a unique and bold decision. A passionate innovator could always be trusted to utilize the fund provided to him or her, since the innovator would have carried out preliminary investigation utilizing his or her own resources thereby evoking trust.

TePP supports innovators right upto the point of starting a new venture. Many individuals and startups have utilized TePP funds to patent their innovations and also for customer and market validation. Needless to state, here are numerous checks and balances by TePP committees which closely monitor the activities of the innovator.

TePP funds are available for all disciplines (excepting software development) with the condition that what emerges ought to be a product or process. Attempts are being made to cast the net wider capturing products in bio-tech, medicine and surgery and so on. Hitherto TePP has been reaching out through colleges but there are programs on the anvil to bring about a wider dissemination through other means.”

For list of projects supported between [August 15, 1998 - March 31, 2009] you may click on http://www.knowledgebiz.org/technology/tepp_projects.asp

TePP Camp at JB Institute of Engineering

A two day” Technopreneur Promotion Programme 2009” was conducted on 4th & 5th of March at JBIET. The programme was sponsored by A P State Council of Science and Technology (APCOST) Hyderabad and Department of Science and Industrial Research (DSIR), Govt. of India.

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Inaugurating the programme on 4th March 2009, the Chief Guest Dr. Y. Venkata Rami Reddy, Chairman, AP Public Service Commission, advised the youth and participating technocrats to develop ideas to be successful entrepreneurs. The Guest of Honour of the Inaugural function Prof. Ch. Venkata Ramana Devi, Member Secretary APCOST, Govt. of AP. highlighted promotion programmes of APCOST for students and rural youth for developing self employable skills. In his presiding address Sri J. Bhaskar Rao, Chairman JB educational society, who himself is a successful entrepreneur and promoter of JB group of institutions said that self confidence and commitment are basic skills for an entrepreneur.

In valedictory session on 5th March 2009, the Chief Guest Sri AL Nageshwar Rao, General Manager, Andhra Bank said that present scenario is not bright for job market and the economy. He suggested students to pursue higher education for sometime and look for ventures with caution to start. The Secretary JB Educational Society, Shri J.V. Krishna Rao asked student to utilize knowledge and experience out of the TePP course in to practice. He congratulated organizers for successful completion of the programme.

The two-day session dealt various issues of entrepreneurship like generation of ideas, continuous creativity, investments opportunities, and screening of TePP Films by APCOST with an open forum by the participants. At the end of programme the ideas and creativity to start ventures were consolidated and presented by the participants.

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TePP workshop at PSG-STEP - Coimbatore



Shri. Pratap Singh, Scientist, Department of Scientific and Industrial Research, New Delhi, speaking at the workshop on 'Technopreneur Promotion Programme' at PSG College of Technology in Coimbatore on 9th April, 2009

Every person has a dream and this should be converted into a product, process or prototype. It has to be developed into something that can be seen and validated and funds are needed for the development of the product, Shri. Pratap Singh, Scientist at the Department of Scientific and Industrial Research (DSIR) said here on Thursday.

He was speaking at a workshop organised by the PSG - Science and Technology Entrepreneurial Park (PSG STEP) and the DSIR on the Technopreneur Promotion Programme.

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He said that every participant was a potential innovator. The funding was given directly to innovators in the programme. The department and the STEP would motivate them and fulfill their needs.

The DSIR had over 100 projects and a number of them were from Tamil Nadu. The potential innovators should write down the idea and explain how it would be developed into a prototype. When there was an economic slowdown, innovation was a fertile ground, he said.

R. Rudramoorthy, Principal of PSG College of Technology, said the Technopreneur Promotion Programme was an initiative to bring out innovations and new products. Several new gadgets and devices were needed to duplicate the functions of a human being.

Innovation could be on existing equipment too. It could be improvement in performance, function or cost. In agriculture, gadgets were imported from countries such as Korea and Taiwan to sow seeds and harvest.

Further, just 35 per cent of agricultural produce reached the consumers. So equipment was needed to bring down agricultural waste.

Though manufacturing a product on a commercial scale needed space, money, time and marketing, product development could be taken up, he said.



Around 140 innovators participated in the Innovators Camp.

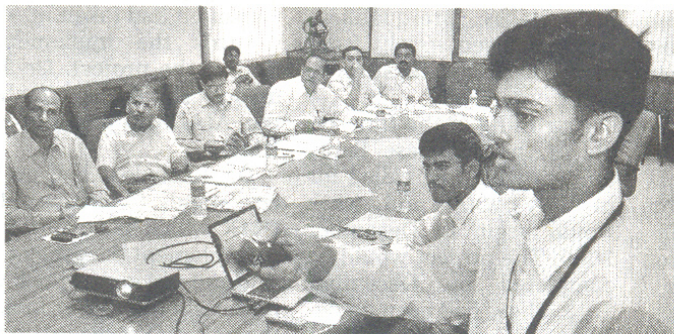
Technopreneur programme for potential innovators

M. Soundariya Preetha

COIMBATORE: "Increase in productivity of Spirulina by distributed agitation system", "shoulder harness helmet" and "bearing mounting and demounting device for four-wheeler vehicles" are some of the innovative projects from Coimbatore that have received assistance under the Central Government's Technopreneur Promotion Programme.

During the last two years, 10 proposals from Coimbatore have got funding under the programme that assists development of an innovative idea into a prototype or a workable model.

Pratap Singh, Scientist, Department of Scientific and Industrial Research, told *The Hindu* here recently that over 7,000 ideas had come to the department since the launch of the programme almost a decade ago. The actual proposals received from potential innovators were 2,000 and 500 of these were funded. Nearly 200



NURTURING IDEAS: *An innovator of anti-lock braking system for two-wheelers gives a demonstration before the TePP Management Committee, in the city.*

- PHOTO: K. ANANTHAN

of these projects were completed and 26 of the successfully developed prototypes were now start-ups.

More than 50 projects from Tamil Nadu were funded and several of these were for agro-based products. The department had established 29 outreach centres in the country, including four in Tamil Nadu, to create awareness about the programme, receive proposals,

and recommend these to the department.

In 2008-2009, Rs. 6.5 crore was provided under the programme. Mr. Singh said the identified innovators also participated in training and capacity-building sessions. "The hand-holding is almost for two years," he said. From instant-rasam to space technology, the programme supported innovation in any segment.

The TMC meeting was held on 10th April 2009 at PSG-STEP. Three proposals were recommended by TMC for TS Support.

(Above) A clipping from "The Hindu", covering the programme

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New Counseling Centre inaugurated at TUC-Udaipur

A new counseling center has been approved by DSIR for TUC, Udaipur which has started at College of Engineering in Bikaner in April 2009. This center will take care of the western part of Rajasthan. Dr. Virendra kumar, chief Coordinator of TUC, Udaipur and Dr. S.M.Mathur Coordinator TUC, Udaipur highlighted the activities of TePP and TUC Udaipur. Dr. Y.N. Singh, Associate professor of College of Engineering Bikaner has been appointed as Coordinator of TUC Counseling Center Bikaner. Some of the photographs of the inaugural function have been attached.

Dr. S.M.Mathur addressing the students and faculty of the COE, Bikaner

A view of interaction with the participants



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TePP Sensitization Camp at Acharya Nagarjuna University-TUC



Prof. D.N. Reddy, Chief Guest delivering Inaugural Address



*Inauguration of sensitization camp on TePP by Prof. D.N. Reddy
9-3-2009 V.C. JNTU, Hyderabad*

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Participants of the Sensitization camp on TePP held on 9th & 10th March 2009 at ANU-TUC



Chief Guest Prof. G.N. Bhahmanandam, Principal ANU college distributing the certificates to the participants of Sensitization camp on TePP at ANU-TUC on 10.3.2009

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TePP Activities at TUC- IIT, Roorkee

TUC Monitoring Committee (TMC), TUC, IIT Roorkee

The 1st meeting of TUC Monitoring Committee (TMC) held on 20th January, 2009 at TePP Outreach Centre Indian Institute of Technology Roorkee. The committee has processed five projects for seeking funding support under TePP scheme, two projects out of five have selected for funding of Micro Technopreneurship support (TS) and one project was selected for Phase-I TePP Project Fund (TPF).



Mr. Lokesh Goyel

Project: Digital valve Controller P/N: DVC02

Funding Sanctioned: 75,000/-



Dr. A. K. Maulik

Project: Evolution of some ayurvedic formulation for their potentiality in the cure and management of diseases like cancer, diabetes.

Funding Sanctioned: 70,000/-

PMRC Meeting, TUC, IIT Roorkee

The 1st PMRC meeting for considering further disbursement of finance sanctioned for the project entitled "Alkali Lignin Products & Cooler Pads from Dry Needles" held on 6th April, 2009 in the office of the TUC, IIT Roorkee.

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TePP actively encourages innovators to seek investment from Angel investors. Innovator. Kranti, recently finalised agreement with Mumbai Angels. See his advice below:

How to create interest and negotiate with angel investors?

This is the story of Dhama Apparel Innovations (DAI), a Start up funded by TePP phase I and II. DAI has developed apparel and accessories that act as personal air conditioning systems. We have developed a heating/cooling jacket, helmet and neck scarf. If you are interested in finding out more information, kindly visit, www.dhamainnovations.com

When the company was started, the main promoter of the company was Kranthi Kiran Vistakula. He says “My main vision was to build a team and raise finances for the technology we had developed. Spearheading, within a year we expanded this company strength to four personnel and have made presentations to many angles and VC firms. We made presentations to TATA Industries, Mumbai Angels, Indian Angel Network, Reliance Technology ventures and many more investors. I feel that the key with these investors is to generate interest but showing the advantages of the technology and demonstrating advanced stage of product or technology development. Investors mostly care about the technology and risks associated with it and are less worried about the market figures at the initial stages. This does not meet that the market part should be left out, a through market analysis have to be prepared along with a strategy to enter market. Once significant interest has been generated with the investor, they get into the details and at this point most value is given to the business model and how you would want the company to grow and what will be the exit for the company.

The most critical stage of the negotiation with the investors is the valuation of the company and the terms in the term sheet. It is to the advantage of the company in valuation to show or generate as much customer feedback or customer interactions. Showing that you are very close to the market can generate higher valuation and you have taken all steps to minimize the risk. After this is the background check, reference check, due diligence and legal due diligence.

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In summary, the key to getting funded by investors is to generate a significant interest in the technology and keeping things as transparent as possible by identifying the risk and showing a risk mitigation strategy. The

investors are not only investing in the company, they will also promote the company so it is to our advantage to keep things as transparent as possible to build a long lasting relation.”

TePP Activities at TUC- Chattisgarh Swami Vivekanand Technical University, Bhilai

At the occasion of 4th Foundation Day of the University, the TePP Outreach “Innovation for Technopreneurship” on 30 April 2009. The Seminar was inaugurated by His Excellency, Sri E S L Narasimhan, the Governor of Chhattisgarh State, who was the Chief Guest. The Seminar was attended by the entrepreneurs, professionals, Principals, Professor and students of the affiliated institutions of the State of Chhattisgarh.

The Key Note Speaker on this occasion was Shri A V Mangrulkar, Former Executive Vice-President of Madhya Pradesh Consultants Organization Limited. The Coordinator – TePP Outreach Centre, Prof. Prakash Pandey welcomed the Guests.

Speaking on this occasion, Dr B K Sthapak, Hon’ble Vice Chancellor reiterated the fact that in order to create economic value and meet social needs, entrepreneurial thinking, and action at multiple levels across multiple disciplines is required. He said that in order to bring together the innovators, professionals, entrepreneurs, students and teachers on a common platform to discuss, share the information and experience in the development of Technopreneurship, the organisation of the Seminar is the most appropriate step.

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TePP Activities at TUC- VITTBI

The third TMC meeting was held at TUC-VITTBI on the 4th of June, 2009. There were six proposals lined up. Shri. Pratap Singh, Scientist, DSIR was joined by the TMC committee members, Mr. K.S. Krithivasan, AGM, BHEL, Ranipet, Dr. Lazar Mathew, Director, School of Biotechnology, Chemical and Biomedical Engineering, Dr. K. Chidambaram, Director, Student Welfare, Mr. R. Natarajan, Professor, School of Mechanical and Building Sciences and Mr. A. Balachandran, General Manager, VITTBI from the VIT University.

This was followed by the review of funded TePP and MicroTePP projects. Four projects were reviewed. The innovators updated the progress of their projects before the committee. Shri. Pratap Singh took time to visit the project site of two other innovators based at Chennai on the 5th and 6th of June, 2009.



**TMC Meeting on 4th June, 2009
in progress at TUC-VITTBI**



**Mr. V.G. Sridhar, faculty,
VIT University, presenting his
idea to the TMC**

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Implementing Student Internship:

Technopreneur Promotion Programme's new initiative is to offer internship to students. Students need to be encouraged to work with the TePP innovators in their projects for a period of 2 to 4 weeks depending on the need and convenience of either party. This is a trial phase which the DSIR wants TUCs to carry out. This internship can be introduced during the vacations and will be beneficial to the students who look out for on-the-job experience. The innovator in turn will be able to accelerate his work with the manpower support.

TUC-VITTBI identified two third year Mechanical Engineering students **Mr. Ritesh Gaurav** and **Mr. Gitesh Kumar** to work with **Mr. S. Kumar**, a TePP beneficiary who was facilitated support through our TUC. The students have compiled the Detailed Engineering Package and the Design and Manufacture of Direct Contact Evaporator as part of the innovator's idea, The Seawater Desalination process.

TePP encourages all TUCs to take this initiative.

Mr. Ritesh Gaurav



Mr. Gitesh Kumar



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Invitation and requests for Partnership with Innovators (RPI)



Request TePP/001/2009

Business Delivery Innovations for Soleckshaw

From: CMERI, Durgapur, India

Response due date: 31/05/2009

Background

Central Mechanical Engineering Research Institute (CMERI), a constituent laboratory of Council of Scientific & Industrial Research (CSIR), has developed a Solar Powered Electric three-wheeled vehicle, named as SOLECKSHAW. It is aimed for use as a means of transport carrying two passengers and a driver. This vehicle can be driven either by pedaling or by electric motor or in combination of both. This vehicle is deemed fittest for transporting people through small distances, especially in the busiest streets of the cities.

It will release zero emission to air and thus will ensure cleaner environment. It is similar to a rickshaw i.e. three wheeled vehicle but driven by electric power supplied by battery, which is charged from Solar Energy. This three-wheeler requires lesser driving effort than normal rickshaw, because the electric motor provides necessary assistance. Due to use of electric motors, these vehicles can be continuously driven for longer distances (compared to the existing present pedal driven cycle rickshaws) which will result in more

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earning for the rickshaw pullers. On the other hand, manual power minimizes the requirement of electric power. So, manual power and electric power has been used in an optimized way. The motor is driven by lead acid batteries, which are charged from Solar Energy, leading to reduction of environment pollution. So far few prototypes of such SOLECKSHAWs have been developed and those are under test run at Durgapur, HRDC Ghaziabad and Chandni Chowk for getting feedback from rickshaw-pullers and common people so that further design improvements can be affected to make it more suitable for different road conditions.

Also, solar powered battery charging stations have been installed at CMERI, Durgapur and within Yudhbir Singh park at Chandni Chowk, Delhi, which are under operation.

Patent applications filed vide Application No. 0167NF2008 & 0168NF2008. Date Filed 29-09-2008. Trademark application filed Application No. TM-1/2008. Date Filed 24-11-2008.

License on non-exclusive basis is available against royalty of Rs. 100/- per every product sold. Nonrefundable advance of Rs.3,00,000/- (Three lakhs) to be paid by the licensee to CMERI, Durgapur, at the time of signing of agreement which will be adjusted against the royalty payment by the licensee for manufacture and sale of 3000 Number of Soleckshaws.

Request for Proposal

TePP on behalf of CSIR invites proposals from entrepreneurs interested in taking license for manufacture and supply of Soleckshaws in different part of the country. The proposal invited is for **Business Delivery Innovation** for rapid product diffusion. Financial support will be extended to selected entrepreneurs under TePP Phase-11 norms. Details of TePP are available on this portal and also on DSIR web site www.dsir.gov.in. The maximum support permissible under TePP phase-11 is Rs. 45 lakhs or 50% of approved project cost which ever is lower. The support can be utilized for implementation of innovative delivery model on pilot scale.

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Entrepreneurs interested may submit proposal, initially as soft copy to asrao@nic.in. The proposal should include Business Plan along with application as per prescribed TePP Phase II S3T application format.

Request TePP/002/2009

Derivative products on Soleckshaw technology platform

From: CMERI, Durgapur, India

Response due date: 31/05/2009

Background

Central Mechanical Engineering Research Institute (CMERI), a constituent laboratory of Council of Scientific & Industrial Research (CSIR), has developed technology, for a Solar Powered Electric three-wheeled vehicle, named as SOLECKSHAW. The first demonstrative model is person transport vehicle carrying two passengers and a driver.

Patent applications filed vide Application No. 0167NF2008 & 0168NF2008, Date Filed 29-09-2008. Trademark application filed Application No. TM-1/2008, Date Filed 24-11- 2008.

Request for Proposal

TePP on behalf of CSIR invites proposals from innovators interested in developing derivative products for different applications using Soleckshaw drive train as technology platform. The proposal invited is for **Prototype development for products other than passenger carrying rickshaw**. Financial support will be extended to selected innovators under TePP Phase-1 norms. Details of TePP are available on this portal and also on DSIR web site www.dsir.gov.in . The maximum support permissible under TePP phase-1 is Rs. 15 lakhs. The support can be utilized for development and manufacture of prototypes for testing at CMERI.

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Innovators interested may be encouraged to submit proposal, initially as soft copy to asrao@nic.in. The proposal should highlight innovative merit along with application as per prescribed TePP Phase I TPF application format.

Prototypes developed at CMERI Mark I, Series 1



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From India Invents:

QPrize from Qualcomm Ventures

Qualcomm Incorporated launched a global business plan competition to promote innovation in the wireless industry. The Qualcomm Ventures Prize™ competition is open to entrepreneurs in North America, Europe, china and India and will provide US\$550,000 in total seed funding to help entrepreneurs transform their innovative business plans into reality. QPrize competition is open to international entrants whose business plans accelerate wireless technology development in the following business sectors:

- Consumer/enterprise applications and services
- Communication devices
- Semiconductor and component technologies
- Mobile platforms
- Digital media and content
- Healthcare technologies and services
- CleanTech

The deadline for business plan submissions is July 31, 2009.

For details <http://www.qualcomm.com/ventures/qprize/>

The Editor, TePP e-NEWS
VIT-Technology Business Incubator,
VIT University, Vellore – 632014
Phone: 0416 224 3097 / 220 2301/ 2303
Fax: 0416-2243 097 / 2240 411
Email: vittbi@vit.ac.in, tbicoordinator@vit.ac.in
Website: www.vittbi.com / www.knowledgebiz.com