



NATIONAL INSTITUTE OF TECHNOLOGY JAMSHEDPUR

JAMSHEDPUR - 831014, JHARKHAND

(An Institution of National Importance Under MHRD, Government of India)

Subject: Approval for Sanction of Seed-Grant for Innovative Projects of Students Teams of NIT Jamshedpur for 2013-14

As per the approval of the competent authority sanction is hereby accorded for the amount as Seed-Grant towards Innovative Projects of respective Students Teams mentioned hereunder with terms and condition at A-1 and A-2.

CENTRE FOR “INNOVATION, INCUBATION AND ENTREPRENEURSHIP”

With reference to Centre for “INNOVATION, INCUBATION AND ENTREPRENEURSHIP” (annexed as A-1), the Innovative Projects Evaluation Committee reviewed and assessed the revised budget of the respective projects in the meeting held on 06/03/2014 and recommends for the approval of the sanction of the respective amount for the respective projects mentioned with terms and conditions (annexed as A-2) as under:

Details of Student Innovative Project Proposal 2013-14

Sr. No.	Title of Project	Faculty Advisor/ Department	Team Leader/ Member	Amount(Rs)	Duration
1	To reduce crushing costs involved in processing BHJ/BHQ and beneficiate it	Dr. Ranjit Prasad (Metallurgical and Material Engg.)	Konda Akash Deep (MME, 392/12); Sumedh Gostu, Sushil Kumar, Shubham Indoria, Modalavalsa Swathi Kiran, Bandaru Laxmi Sumanth, Shanni Kumar	6,92,000	4 months
2	Characterization of chromite ore and its thermo-chemistry of the Interaction	Dr. Ranjit Prasad (Metallurgical and Material Engg.)	Shailesh priyadarshi (MME, 2013PGMMET014); Rahul Kumar, Manish Kumar	2,17,000	2 year and 4 months
3	Beneficiation of BHJ/BHQ and bond work index	Dr. Ranjit Prasad (Metallurgical and Material Engg.)	Shishira Bhagavath (MME,15/13); Rajiv Khandelwal, Vikram Jha, Gourav Raj	4,29,000	4 months
4	Development of lightweight material: An alternative of conventional steel for automotive application	Prof. Sunil Kishore Sahay (Metallurgical and Material Engg.)	Ketan Anand (MME, 601/11); Vidhukesh Vaidehi, Priya Kumari	90,000	6 months
5	Development of creep resistant material	Prof. B.K. Singh (Metallurgical and Material Engg.)	Thakur Prasad Saw (MME, 369/11); Abhishek Kumar, Rahul Yadav	2,70,000	6 months
6	E-waste management and recycling of lead, caesium and their derived products	Dr. Rina Sahu (Metallurgical and Material Engg.)	Vivek Kumar (MME, 401/12); Pranay Ranjan, Devoiyoti Mandal, Shivam Gupta	4,90,000	19 months

7	Strain Induced Melt Activation (SIMA)	Dr. Rina Sahu (Metallurgical and Material Engg.)	Bharti Priyadarshini (MME, 363/11)	4,25,000	18 months
8	BAJA SAE INDIA	Prof. Sanjay (Mechanical Engg.)	Shubham Sagar (ME, 57/11), Sunny, Mayank, Hasshit, Ritesh	6,11,000	8 months
9	SAE AERODESIGN EAST 2014	Dr.M.K. Sinha (Mechanical Engg.)	Tarun Kumar Kedia (ME, 227/11); Ashish, Harsh, Sumit, Vishal	2,00,000	6 months
10	SAE AERODESIGN, WEST-2014	Prof. R.V. Sharma (Mechanical Engg.)	Prashant Kartikeya (ECE, 276/11), Abhishek, Deepankar, Ketan	2,00,000	7 months
11	Advance Research in Autonomous Robotics	Prof. R.V. Sharma (Mechanical Engg.)	Ashish Pandey; Rahul Gupta, Shobhit Shubham, Prashant Kumar, Bittu Kumar	1,00,000	14 months
12	AIR BIKE	Prof. B.N. Prasad (Mechanical Engg.)	Pooja Priyadarshini (ME, 106/11); Neha Thakur	63,550	Till Aug. 2014
13	Model based predictive methods to improve DIESEL engine fuel injection process & effect of step injections & delayed injections for optimization of combustion to achieve better efficiency and emission standards*	Dr. K.D.P. SINGH (Mechanical Engg.)	Shashank Sharma	85,000	12 months
14	Electric Solar Hybrid Vehicle	Dr. K.D.P. SINGH (Mechanical Engg.)	Shivam Rai (ME, 467/10),Gaurav, Rs Burnwal	2,00,000	175 days
15	Feasibility study of Photovoltaic Fuel Cell Integrated System	Dr. S.N. SINGH (Electronics and Communication Engg.)	Navneet Prabhakar (ECE,290/10)	1,00,000	6 months
16	HUMAN MOTION NAVIGATION SYSTEM	Dr. S.N. SINGH (Electronics and Communication Engg.)	Rahul Sharma (ECE,432/11); Manish Kumar Singh,Emtiyaj Ali,Mayank Jain	35,400	6 months
17	INTELLIGENT WHEEL CHAIR	Dr. S.N. SINGH (Electronics and Communication Engg.)	Ishu Jain (ECE,168/11)	68,000	11.5 months
18	Solar Wireless Pump Controller	Dr. S.N. SINGH (Electronics and Communication Engg.)	Pranjali Debnath (ECE,90/11)	1,11,000	6 months
19	Integrated Embedded Light Controlling Solar System	Dr. S.N. SINGH (Electronics and Communication Engg.)	Sweety Kushwaha (ECE,331/11)	1,28,000	6 months
20	Conserving water, electricity & purity check through embedded system	Mr. Amit Prakash (Electronics and Communication Engg.)	Raja Babu (ECE,33/11)	34,000	81 days

21	7-DOF Intelligent Robotic Arm	Prof. B.S.Munda (Electronics and Communication Engg.)	Shubhojyoti Ganguly(ME,038/12); Ravi Raushan Kr.	3,22,351	2 years
22	MAGLEV TRAIN	Prof. U.K. Sinha (Electrical Engg.)	Indra Raj Meena (EEE,461/12)	1,31,800	18 months
23	Improvement of Bearing Capacity of Loose Granular Material by Grouting Technique	Prof. Ashok Kr. Khan (Civil Engg.)	Sharad Srivastava (Civil Engineering, 162/11)	3,65,500	1 year
24	Low-cost House Planning in Seismic Prone areas	Dr. Prahlad Prasad (Civil Engg.)	Ashwini Gupta (Civil Engineering, 355/12)	2,00,000	5 months
25	A 10-node Supercomputer for Research, Academics and IT operation	Dr. Sudhanshu Kumar Jha (Computer Application)	Choudhary Sourya Vatsyayan (ECE,132/12); Amrit Kashyap,Pranay Kumar	10,000	75 days
26	SOLAR CAR	Prof. Sanjay (Mechanical)	Ambar Katyayyan (MME,329/12)	7,50,000	24 months
Total amount in Rs.				63,28,601	

A-1

Overview of the Scheme

Centre for “Innovation, Incubation and Entrepreneurship” of NIT Jamshedpur is happy to announce a scheme to award “Seed Grant for Innovators” to tap the vast innovative potential of students and provides support.

AIM: To provide financial support/seed grant to student innovators.

OBJECTIVES: The seed grant for innovators has the following objectives:

- To promote imagination/thoughts among the students
- To promote critical thinking among the students
- To enhance the domain knowledge / skills to develop the innovative products / services
- To promote and support “innovation, incubation and entrepreneurship” activities

PURPOSE: The seed grant is provided for the following purposes:

- Procurement of equipment/ tools/components/parts/consumables.
- Procurement of raw material
- Machining cost
- Fabrication cost
- Registration fee
- Validation/Testing
- Cost of any other relevant item

NOTE:

- Acceptance of terms & conditions is mandatory

Terms and Conditions for Seed Grant for Innovators

Title of the project:

Name of Faculty Advisor with address:

Name of Team:

Name of student leader with address:

Name of Team Members:

Amount approved:

Duration of the project:

FINANCIAL CONDITIONS:

1. Approval for sanction of amount being provided therefore is for the specific project and the amount approved should be exclusively spent on the project within the project period. Any unspent balance out of the amount sanctioned must be surrendered to the Institute (N.I.T, Jamshedpur).
2. The sanction amount will be released to faculty advisor only.
3. For permanent and semi-permanent assets, acquired wholly or partly out of the grant, a record should be maintained in the concerned department which should be made available to the scrutiny of experts whenever demanded. The term “assets” will mean (i) all immovable property; and (ii) movable property of a capital nature .

The amount will not be utilized for construction of any building/permanent asset like machinery required for augmenting general production facilities. Pilot plants, test equipment, test rigs, jigs, tools and fixtures etc., required for building prototypes and testing the same can , however , be built/made/acquired out of this grant , if so identified in the approval project proposal or subsequently approved by the committee.
4. The progress of the project is monitored by the faculty advisor, concerned HOD and also by the Committee.
5. The assets, if any, wholly or partly acquired out of this grant during the course of implementation of the project, shall not be disposed off without the specific written permission of the Institute. The sale proceeds, if any, arising out of such disposal shall be intimated to the Institute and shall be deposited in the account maintained for the amount received from the Institute.
6. The whole project cannot be transferred to any other Team without the permission of the committee.
7. A completion report shall be submitted by the Faculty advisor/Team Leader to the Institute preferably within fifteen days of the conclusion of the project. This report shall be in two parts (i) Technical and (ii) Financial, the latter consisting of a consolidated statement of accounts of all amount spent on the project and Certificate of Utilization of all such amounts.
8. Any escalation in the cost of the project above the approved cost will be reviewed by the committee for approval.
9. Any components / parts / tools/materials etc which is required for the project, the students and faculty advisor has to give a certificate stating that such components have not been purchased earlier from any other fund.

10. If above components have been purchased from other funds and need to be replaced due to any reason, the student and faculty advisor should give the certificate to this effect.
11. The display of the innovative project outside the country to be allowed after the evaluation by the committee.
12. To display the innovative project inside the country, the student's project team will be allowed to participate at the institute expense including faculty advisor after evaluation by the committee.
13. Registration charge, cargo/shipment charges are admissible.
14. GFR/Institute rules will be followed for all expenses.

TERMINATION OF THE PROJECT:

The Institute will have the right to terminate/close the project at any stage

- If the amount released has not been properly utilized.
OR
- Appropriate progress on the project is not being made, or
- The project is not being carried out as per the terms and conditions and /or as per the nature and scope of the work as defined in the approved project proposal.

Sd. Dr. M.K Sinha
Associate Dean (R&C)