

## PRIYADARSHINI COLLEGE OF ENGINEERING CRITERIA NUMBER III RESEARCH, INNOVATION AND EXTENSION



### Key Indicator 3.1 : Resource Mobilization

| Key Indicator | Metric<br>Number | Particulars   |
|---------------|------------------|---|
| 3.1           | 3.1.3            | Number of research projects per teacher funded by<br>government and non government agencies during the last five<br>years |

### INDEX

| Sr.<br>No | Name of the Project/<br>Endowments , chairs   | Year    | Amount                          | Page No. |
|-----------|---|---------|---------------------------------|----------|
| 1         | Iron Based Perovskite Type<br>Catalysts From Rust" granted in<br>the framework of the program<br>GRAMMA" DI RICERCA STM<br>2016" at ISMN-CNR, Palermo,<br>Italy | 2016-17 | 3000 Euros, App.<br>Rs.2,10,000 | 1-2      |
| 2         | Design & Development of HPFM<br>Energised Process Machines  | 2013-14 | Rs. 30,000                      | 5-7      |
| 3         | Design & Development of HPFM<br>Energized Turmeric Cleaning<br>Machine  | 2013-14 | Rs. 15,000                      | 5-7      |
| 4         | Design & Development of HPFM<br>Energized Dry Chilli Crushing<br>Machine  | 2013-14 | Rs. 15,000                      | 5-7      |
| 5         | Design & Development of oscillating pedal bicycle drive   | 2013-14 | Rs. 15,000                      | 5-7      |
| 6         | Design & Development of HPFM<br>Energized Rise Huskar   | 2013-14 | Rs. 15,000                      | 5-7      |



## PRIYADARSHINI COLLEGE OF ENGINEERING CRITERIA NUMBER III RESEARCH, INNOVATION AND EXTENSION



| 7  | Design And Fabrication Of<br>Bamboo Sliver Cutting Machine,<br>Wood Chipper Cutter And Stirrup<br>Bending Machine By Using Pedal<br>Powered Mechanism                     | 2012-13 | Rs.10,70,000/- | 8-15  |
|----|---|---------|----------------|-------|
| 8  | Fabrication & Optimization Of<br>Dimensional Parameter For Solar<br>Power Plant   | 2012-13 | Rs.11,95,000/- | 16-17 |
| 9  | Development And Performance<br>Evaluation Of Human Energized<br>Water Pump  | 2012-13 | Rs.16,50,000/- | 18-19 |
| 10 | Formulation Of Approximate<br>Generalized Experimental Data<br>Based Model For Chaff Cutter &<br>Nursery Fertilizer Mixer<br>Energized By Human Powered<br>Flywheel Motor | 2009-10 | Rs.4,53,000/-  | 20-23 |
| 11 | Design and Development of a<br>Comprehensive Bamboo<br>Processing Machine for optimal<br>performance  | 2007-08 | Rs. 5,00,000   | 23-24 |

3-11-0

Joshi Manisha Parag <sup>Hause</sup> no. 1075/A, Rambach Complex Bunglow Ramkrishna Nagar, Khamla Road 940015 Nagpur (India)

> Al Consiglio Nazionale delle Ricerche (National Research Council of Italy) Plazzale Aldo Moro, 7 00185 Roma

> > C.F. 80054330586 P. IVA 02118311006



#### Nota di Addebito

Date, .....

Subject: Amount received for a research stay of 10 days in Italy which took place within the framework of the Short Term Mobility Program – 2016 (STM 2016), as quoted in the CNR Contract, Ref No. AMMCNT – CNR n. 73311 dated 03/11/2016. Chygetta: Convenso per un soggiorno di ricerca di 10 gg. effettuato nell'ambito del Programma di Mobilità di Inere Durata – 2016 (STM 2016), di cui al Contratto, prot. AMMCNT – CNR n. 73311 dei 03/11/2016.

TOTAL AMOUNT '

| CONTINUE                        | £ | 3.000,00 |  |
|---------------------------------|---|----------|--|
| Total Amount<br>Totale          | ¢ | 3.000,00 |  |
| Italian Income Tax (IRPEF) 30%  | € | 900,00   |  |
| Final Amount<br>Totole a pagare | e | 2,100,00 |  |

Signature (Dr. Manisha Parry Joshie)



To: Dr.M.P.Singh, Principal Priyadarshini College of Engineering (PCE), Hingna Road, Nagpur, India

a.

# Subject: Work completion certificate of Dr. (Mrs.)Manisha Parag Joshi

Dear Dr. M. P. Singh

This is to certify that Dr.(Mrs.)Manisha Parag Joshi working as an Associate Professor at Priyadarshini College of Engineering, Nagpur has successfully completed her Research Project entitled "Iron-based perovskite-type catalysts from rust: a co-operation between Italy and India" granted in the framework of the program "PROGRAMMA DI RICERCA STM 2016". She had worked from 14<sup>th</sup> November 2016 to 25<sup>th</sup> November 2016 at Istituto per lo Studio dei Materiali Nanostrutturati"- "Consiglio Nazionale delle Ricerche (ISMN-CNR), Palermo, Italy. During her visit to ISMN-CNR she worked in collaboration with Dr. Francesca Deganello and she had access to all research laboratories and facilities deemed necessary to carry out her research project.

I consider her visit an excellent opportunity to strength the on-going research collaboration between our two Institutes.

She was extremely hard working and dedicated towards her work. I wish her all the success in her future endeavors,

# Palermo (Italy), 25/11/2016

Sincerely,

Dr. Anna M. Venezia, PhD Director of Research, Deputy Director ISMN\_Pa -CNR

DUREZIONE VIA SALARIA KM 28,300 - 00015 MONTERUTONDO STADONE (ROMA) ITALY

T: +39.05.50 672 484 F: +39.06 90 672 372 E: segreteria@ismn.orz.it W: www.ismn.orz.it C.Sr: 60054330585 P.MA: 02118311006 UOS BOLOGNA Via Piero Gobetti, 101 49129 Bologna - Naly

T: +39.051 639 8513 F: +39.051 639 8540 UOS PALERIMO Via Ugo La Malta, 153 90146 Palerino - Italy

E +39.091 680 9360 F: +39.091 680 9399 UOS SAPIENZA File Alcio Moro, 5 00185 Roma- Ealy

T: +39.06 90 672 484 F: +39.06 90 672 372

# PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR

# EXPENDITURE CERTIFICATE

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Following are the details of expenditure for products developed vide letter from Human Scale Technologies Lab dated 27th March 2012

| S.<br>N | Name of Project  | Name of the<br>Investigator | Cost in Rs.   |
|---------|--|-----------------------------|---------------|
| 01      | Design & Development of Energy<br>Machines                               | Dr. J.P.Modak               | Rs. 30,000.00 |
| 02      | Design & Development of HPFM<br>Energized Rise Huskar                    | Dr. P. B. Khope             | Rs. 15,000.00 |
| 03      | Design & Development of HPFM<br>Energized Dry Chilli Crushing<br>Machine | Dr. G. D. Mehta             | Rs. 15,000.00 |
| 04      | Design & Development of HPFM<br>Energized Turmeric Cleaning<br>Machine   | Dr. K.S. Zakiuddin          | Rs. 15,000.00 |
| 05      | Design & Development of<br>oscillating pedal bicycle drive               | Dr. J.P.Modak               | Rs. 15,000.00 |
|         |  |                             |               |

1.1

Dr. J.P. Modak Dean (R&D),LTJSS

#### Human System Technologies Lab, Mumbal

Human Scale Technologies Lab

1/A Siddachal Phase 6, Polduan Road 2, Thona 400630 Tel 022 25854212 Fax 022 25823542 Email as Deynterprise.net

March 27, 2012

The Principal, PRIYADARSHINI COLLEGE OF ENGINEERING, CRPF CAMPUS, NAGPUR-19. INDIA

# Re: Collaboration in the development of Human Powered Tools for Income Generation

Dear Sir,

It was a pleasure meeting with Prof Jayant Modak and his colleagues in Nagpur on the 15th. Your team's initiatives in the design and development of human powered equipment are indeed laudable and must necessarily be sustained.

We at the Human Scale Technologies Lab (HSTL), a section 25 company, supported by Synterprise, Mumbal and New Work New Culture, Ann Arbor, Michigan, develop and support such initiatives based on 'pedal power'.

The principal goals of HSTL include that

- Collation of podal powered tools and machines in India and the world over
- Application, adaptation and customisation of pedal powered tools for income generation, particularly for self-provision
- Web-based facilitation for the appregation, Interaction and dissemination of pedal powered technology vis-à-vis stake holders

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In this connection and as discussed we would like to enter in to a collaborative arrangement with your institution to undertake on behalf of HSTL pre-identified projects and studies by your faculty and or students. Under the aegis of New Work New Culture and HSTL you will have the opportunity to interact with like institutions in the US, Germany, Austria and South Africa.

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To ensure moestone achievement, we recommend focus on:

- Concepts
- Completion/variation of existing projects/studies
- New Projects

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To start with, we must target to identify within a month, at least 3 projects for this calendar year. Based on the estimate provided by your team, the budget for each project is Rs 40,000.00. Needless to say that the endeavour shall be to focus on frugal engineering to enable us maximise results from the budget. It would be ideal if we could do a 4<sup>th</sup> project in the same budget! 39

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Based on your acceptance of this offer of collaboration, we enclose herewith a demand draft of Rs 1,20,000.00 to meet the said project costs.

We look forward to this collaborative initiative and to playing a useful role in catalysing human powered income-generating tools in the community!

With best wishes

For Human Scale Technologies Lab

Anil Saldanha Director

15 ~1 Ends. AH.

As token of acceptance For and on behalf of PRIVADARSHINI COLLEGE OF ENGINEERING

Encl: Demand Draft dated 31.3.12 drawn on HDFC Bank Ltd, Thane for Rs 1,20,000.00 (Rs one lac twenty thousand only) payable to the 'Principal, Priyadarshani College of Engineering', Nagpur. DA No : 003349

| Des  | ign An      | d Fabrication Of Bamboo Silve<br>nding Machine By Using Pedal  | r Cutting Machine, Wo  | od Chipper Cutter And  |
|------|-------------|--|--|--|
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| (and | Flot 1      | AND A DESCRIPTION OF A  |  | n 4, 1911  |
|      | <u>2000</u> | America and Distorang Officer<br>In Council for Technical Education<br>nor, Chardmick Dubling,<br>ment Place, New Delbi - 110,591,   | - t <sub>ie</sub>  | 8  |
|      | Subi        | Relance of Grants under Research Pr<br>year 2012-13.   | omotion Activities (RPS) Octoon  | an deallery the forwarded  |
|      | ta,         | 11. Contract of the second sec | (e)  | -  |
|      | - OCIDENT   | This is to convey the substitut of the C<br>Str. Thompsond Str. Humirout StatySovie<br>to (RPS) as Grant-In-old for modify) the<br>& cpdate general research capabilities, a   | s per deballs given below.   | the tichenia in order to   |
| 1    | <b>1</b> ,  | Name of the Deceliciary Institution<br>(University / College / Institution)  | : PRIYADARSHINI GOLLE<br>NEAR GRPF CAMPUS, H<br>MELLS NAOPUR-10                              | HONA ROAD, DIGDON  |
|      | 2,          | Principal Investigator's Name &<br>Denti.  | : Dr. MAHENDRA EINGH<br>MECHANIGAL ENGINES   | DING   |
|      | а,          | Grant-in-akt Garctioned  | 1 100 10200000   | 10   |
|      | a.          | Amount to be Released during the<br>year 2012-13<br>(100% of non-recurding and recurring<br>of year 1 remaining recearing in year<br>2 and 3)  | Non Resurring : Rs. 97<br>Resurring (1" Year): Ry<br>Total : Rs. 9308677-                    | 00007-1<br>5. 666071   |
|      | 5,          | Approved Duration  | 3 Yours (Throw Yests)  |  |
|      | 6.          | Title of the Project   | : DESIGN AND FADRIC<br>SLIVER CUTTING MA   | CHINE, WOOD GRIPPER  |
|      |             |  | USING PEDAL POWE   | UP BENDING MACHINE BY  |
| F    | 1.          | The senctioned grant-In-aid is deba<br>payment during the financial year 201   | table to the major 'Head RP<br>12-13   | S/Plan grant" and is valid for   |
|      | 2.          | The grant-in-aid of the grant shall b<br>India Council for Technical Educatio<br>to and credited to the account of C<br>OF ENGINEERING NEAR CRPF<br>through RTGS.  | n, New Delhi on the Granis-e   | PRIYADARSHINI COLLEGE  |
|      | э.          | The date of release of the grant by<br>project. The Principal/Director/Reg<br>Any Expenditure incurred prior the<br>the grant and if the University/Inst<br>receipt of the grant, approval shall it  | pistrar shall intimate about t<br>seuance of the approval left<br>Rution do not take the pro | ine receipt of the grant is recire.  |

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201AICTE/RIPDIRPS(POLICY-III)134/2012-13 Each project sonctioned by AICTE is assigned a specific Ruf. No. which is on pro-page. All correspondence address to AICTE regarding the project must quote this number along with year of encilies of the project observate the correspondence must quote this number. of sanction of the project, otherwise the correspondence may not be entertained. The accounts of the grantee will be open for jast check by the Council or Comptreller & Audited General of India or by any Officer designated by them." The institute/University shall not charge any everheads on this project and will provide all the administrative support for completion of the project. 5. administrative support for completion of the preject. The grantee shall utilize grants on only approved terms of expenditure (list enclosed). However in case of the grantee wishes to recast the project, approval of Council must be obtained for the revised item of expenditure and they will maintain proper accounts of the expenditure as per the norms/procedures of AICTE/Government of India. 6. 7. The assets acquired wholly or substantially out of all India Council for Technical Education's grant shall not be disposed or encumbered or utilize the purpose other than those for which the Grant was given without proper sanction of the all India Council for Technical Education. 8. The grantee shall maintain an audited record of assets acquired wholly or substantially out of the grant-in-aid and a register or assets shall be maintained by the institute in the prescribed form I.e. 9. GFR-19. Interest on the sanctioned grant-in-aid will be treated as part of the grant and shall be used for project purposes only and the same shall be mentioned in the audited statement of accounts. 10. The Annual Progress Report in the prescribed formst along with Statement of Expenditure and Audited Utilization Certificate shall be submitted to AICTE not later than one month after 11. completion of each financial year. Project Completion Report (PCR) in the prescribed format along with the Audited Statement of Expenditure indicating expenditure incurred in the total duration of the project in the prescribed 12 format, utilization in the format and GFR-19 shall be submitted to the Council, The Utilization Certificate (UC) supported by Audited Statement of Expenditure to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to 13. the All India Council for Technical Education as early as possible after completion of the project, It should contain the head-wise break up of expenditure made from the grant-in-aid provided by the Council. The grantee shall follows the terms and conditions of Research Promotion Scheme (RPS) as laid 4. down by the council from time to time. 1 ---- (a -1 where

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20YAICTER/FORP5(POL/CY-III)1342012-12

The Grantee shall fully implement to the efficiel tanguage policy of Union Government and comply with the efficiel tanguage Act, 1953 and efficiel tanguage (use of efficiel surposes of the Union Rules, 1978 etc.)

13.

The funds to the extent are evaluate under the scheme.

The sanction issues in exorcise of the powers delegated to the Council. It is also certified that grant-in-old is being missed in conformity with the rules and Principles of the scheme. 17.

The Council does not provide permanent staff. However, Technical Project staff may be engaged only on contract basis after taking a formal approval from AICTE. The remunaration for such personnal may be fixed as per prevailing rules of the institution. 18.

It should be ensured that no RPS project in favour of the same P.L. has been sunctioned during 2011-12 & 2012-13 before utilizing this amount and the matter be brought to the notice of this Creard immediated Yours sincerely. Council immediately.

(Shashikant P. Borkar)

Advisor (RIFD)

Note: The prescribed formats and Terms & Conditions are available in the application brochure

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Copy forwarded for information and necessary action to:

The Director/Registrar/ Principal 1. PRIVADARSHINI COLLEGE OF ENGINEERING NEAR CRPF CAMPUS, HINGNA ROAD, DIGDOH HILLS NAGPUR-19

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Dr. MAHENDRA SINGH PRIVADARSHINI COLLEGE OF ENGINEERING NEAR CRPF CAMPUS, HINGNA ROAD, DIGDOH HILLS NAGPUR-13

Office of Director General of Audit GENERAL REVENUES, AGCR BUILDING I.P. STATE, NEW DELHI-110 002.

Guard File

#### ALL INDIA COUNCIL FOR TECHNICAL EDUCATION 4<sup>th</sup> Floor, NBCC Place, Bhlahma Pitamah Marg, Lodhi Road, Pragati Vihar, New Dolhi-110003

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# not. No.: 2004015/01/POIRPS(POLICY.00/154)PVTy2512-13

| Name of the Principal<br>Investigator | Dr. MAHENDRA SINCH   |
|---------------------------------------|--|
| Name of the institution               | PRIVADARSHINI COLIDGE OF ENGINEERING NEAR CRPF. CAMPUS.<br>HINGNA ROAD, DIGDOH HILLS NAGPUR-19 |
| Title of the Project                  | DEBIGN AND EASPICATION OF BAMBOO SLIVER CUTTING MACHINE,                                       |

WOOD CHUPPER CUTTER AND STIRRUP BENDING MACHINE I USING PEDAL POWERED MECHANISMO

Approved Items of Expenditure (Non-Recurring)

| SI, No. | Approved items (As per proposal)         |
|---------|--|
| 1       | FLYWHEEL                                 |
| 2       | SHAFTS                                   |
| 3       | BALL BEARINGS                            |
| 4       | GEAR BOX AND ITS FABRICATION             |
| 5       | BICYCLE FRAME WITH EXTRA TWO FREE WHEELS |
| 6       | SPROCKETS                                |
| 7       | CHAINS                                   |
| .8      | NUT & BOLTS KEYS                         |

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64,

16.34

Total Amount Rs. 8700001 for Non- Recurring TRs. 66667/- for Recurring (1/3 of total Recurring amount) I.e. Total Amount Rs. 936657/- (Rupees Nine Lakh ThirtySix Thousand Six Hundred SixtySeven Only)

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08:3.2010

(Shashikant P. Borkar) Advisor (RIFD)

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#### DRAMMA DRAKDWIMAM SHRAMAY SAVITIA S PRIYADARSHINI COLLEGE OF ENGINEERING New Y, B. P. F. Lawyer, Hiega Barl, Jogen - Letter Dielas Ph.: etc. 216: 236-01 / 257:07223017972300 - Fax - 91-7001213001 Could printed precisional Wilson; new prelipsoint



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1437-References\_ches

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81D Bareau - All India Cosnell for Yechrical Education, NBCC Place, 4th Floor, East Wing, Pragat Vilor, Uboham Pitanaha Marja New Delhi -110003

Subject : Submission of Project Completion Report and Fund Unification Certificate Reference : 20/A1CTE/RIFD/RPS (POLICY- III) 134/2012-13, Datest :96 Mar 2013

Responsed Sir,

The Project under Research Promotion Scheme (RPS) titled "Thesign and Fabrication of Bumhon Sliver Cutting machine, Wood Chipper Cutter and Stirrup bending Machine by using Pedal Powered Meckaniam" is specified to us by AK. TE, New Dellis in the year 1013. The amount released by AICTE is : Rs. 9.36.661/- (Nine Laws Thinty Six Thousand Six hundred sixty seven only). The duration of project was of three years and the dated of commencement of project is 6th March, 2013. The utilization of the annum sauctioned by AICUE and Project completion Report is enclosed herewith. Kindly acknowledge the section of the separa

Thanking you in anticipation.

Upr. C. N. Saldhale Co-Principal Investigator

Associate professor, Mechanical Enge

Department, PCE, Negpur



Date style of case

mbeingh Dr. M. P. Shigh

Principal Investigator Principal & Professor of Mechanical lingg.

Priyadarshini College of Engineering, Nogpur

Encl: Project completion reptra, Utilization Certificate and Audited Unitzation Certificate

Pri: Idarelani College of Eng Nagpur

LORMANYA TILAK JANKALYAN SHIRSHAN SANSTHA

Inknass Fra Meens Lives Super-extril Schurden room 18 - 19 - 19 12 Week 21-Mail: To Set U. 51 2014 **花用**。

Annual Progress Report for AICTE funded project under

Research Promotion Schemes (RPS)

(Please include antificient details in sections 9-11 so as to facilitate proper evaluation of your project.)

File Nu. : 20/AICTE/RIFD/RPS (POLICT-111) 134/2012-13, Dated 06 Mar 2013

(As mentioned in sunction letter)

Date of Sanction : March 06, 2013

Subject Area . Material Processing

1. Principal Investigator

| (Name & Address)    | : Dr.M.,P.<br>Professor                  | of Mechanicul Engineering & Principal,                                     |  |
|---------------------|--|--|--|
| 2. Co-Principal Inv | Priyudars                                | ini College of Engineering, Nagpor   |  |
|                     | Associate ;                              | vofessor, Mechanical Engineering   |  |
|                     | Departmen<br>Nagpur-10                   | 4. Priyadarshini College of Engineering,                                   |  |
| 3. Project Title    | : Design and Pabrie                      | action of Bandoso Silver Cutting   |  |
|                     | machine, Wood Chipper Catter and Stirrup |  |  |
|                     | bending Machine                          | by using Pedal Powered Mechanism   |  |
| 4. Date of Commence | ment of the Project                      | : March 6 <sup>th</sup> , 2013   |  |
| 5. Amount Sanction  | and by AICTE                             | : Rs. 10.70,000/-<br>Non- Recurring: Rs. 8.70 Lnc<br>Recurring: Rs. 2 Lacs |  |

6. Amount Released by AICTE : Rs. 9,36,667/- (Non- Recurring: Rs. 8.70 Lac +

12

Recurring: Rs. 66.667/-)

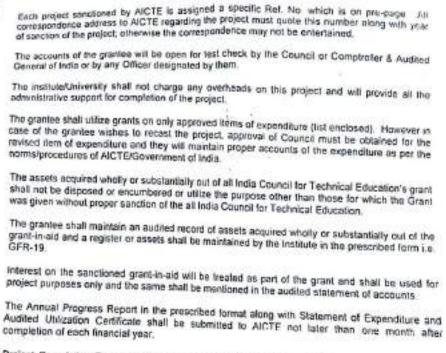
#### **Details of Expenditure**

The total grant received for the project is Rs. 10.70,000% Lacs. Rs. 8.70 Lacs is Nonrecurring and Rs. 2.0 Lacs is recurring. Total project duration is 3 years. Rs. 3.75 Lacs from non-recurring grant and Rs. 66,667% from recurring grant was utilized in the financial year 2013-14 and the remaining unspent amount is spent in the financial year 2014-15 and 2015-16. The total expenditure for the completion of the project is mentioned below:

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| Fabr | cation   | & Optimization Of Dimension  | al Parameter For Sol   | ar Power Plant  |
|------|----------|--|--|---|
| 朝    | 1        |  | It TECHNICAL EDUCATION<br>; Pada, Phishem Pitamais Marg<br>New Debi-110003 | Dempert HADMert                                       |
| 1    | Ret. P   | to zoiAICTERUPDINPS(POLICY-8)135/201   | 2-12 Na  | A & (hulle) /HEDMerk<br>eth 6, 2013<br>Dear(Reb)      |
|      | Aline    | Irawing and Disbursing Officer<br>In Council for Fectalical Education<br>or, Chandratak Huilding,<br>augin Pioce, New Deltit – 110.001.  |  |   |
|      | Sub:     | Roleano of Grants under Research Pro<br>year 2012-13.  | minion Schome (RPS) Sche   | me during the financial                               |
|      | Sir,     |  |  | and a state   |
| 1    |          | This is to convey the sanction of the C<br>(Five Thousand Only) during 2012-13 un<br>r meeting the expenditure for implement<br>ch capabilities, as per details given below                            | ing the Scheme in order to   | create & upone good                                   |
|      | 1        | Name of the Beneficiary Institution<br>(University / College / Institution)  | HILLS NAGPUR-19  |   |
|      | 2        | Principal Investigator's Name &  | Dr. CHANDRASHEKHA<br>MECHANICAL ENGINE                                     | R SAKHALE   |
|      | 3.       | Deptt<br>Grant-in-aid Sanctioned   | Rs. 1195000/-  | 1   |
|      | 4,       | Amount to be Released during the<br>year 2012-13<br>[100% of non-recurring and recurring<br>of year 1 remaining recurring in year  | : Non Recurring ; Rs. 8<br>Recurring (1" Year): F<br>Total : Rs. 955000/-  | 850001-<br>Rs. 1000001-                               |
|      | 5.       | 2 and 3)<br>Approved Duration  | 3 Years (Three Years   | )   |
| P    | 5.<br>6. | Title of the Project   | UPDRAFT POWER F  | AMETER FOR SOLAR                                      |
|      | 1.       | The sanctioned grant-in-aid is deba<br>payment during the financial year 201   |  |   |
|      | 2,       | The grant-in-aid of the grant shall b<br>India Council for Tachnical Education<br>to and credited to the account of D<br>OF ENGINEERING NEAR CRPF<br>through RTGS.                                     | irector/Registrar/ Principa<br>CAMPUS, HINGNA ROAD                         | A, PRIYADARSHINI COLLEGE<br>D, DIGDOH HILLS NAGPUR-19 |
|      | 3.       | The date of release of the grant by<br>project. The Principal/Director/Reg<br>Any Expenditure incurred prior the is<br>the grant and if the University/Inst<br>receipt of the grant, approval shall it | ssuance of the approval lef  | W 03/2U/06 art of housile too a south                 |
|      | 1        |  | B.3.200  | Contd 2   |

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20/AICTER#D/RPS(POLICY-III)135/2012.

 Project Completion Report (PCR) in the prescribed format along with the Audited Statement of Expenditure indicating expenditure incurred in the total duration of the project in the prescribed format, utilization in the format and GFR-19 shall be submitted to the Council.

3. The Utilization Certificate (UC) supported by Audited Statement of Expenditure to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the Al India Council for Technical Education as early as possible after completion of the project. It should contain the head-wise break up of expenditure made from the grant-in-aid provided by the Council

The grantee sital follows the terms and conditions of Research Promotion Scheme (RPS) as laid down by the council from time to time.

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#### ALL INDIA COUNCIL FOR TECHNICAL EDUCATION 4<sup>th</sup> Floor, NBCC Place, Bhiabme Pitamab Marg, Lodhi Road, Pragati Vihar, New Dolhi-110003

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Hef. No. 20ANCHLINEPOINPS(POLICY-REP35)PVT/2012-13

| OF CHANDRAGHT NUMBERANDIME  |
|---|
| PREVADABLEMENT OF LEGE OF LENGTHELENERS IN ALL CHIPF CAMPLES,<br>HINGHA ROAD, DICOLETING IS HAD THAT THE PROVIDE UP |
| FAURICATION & OPTIMIZATION OF TIME RELEASE. PARAMETERS OF<br>SOLAR UPDIAL FLOWER PLANTO                             |
|   |

Approved items of Expenditure (Non-Recurring)

| SI. No. | Approved Itonia (As per proposal)      |
|---------|--|
|         | COLLECTOR MATERIALS                    |
| 2       | CHIMNEY + TURBINE                      |
| 3       | ALUMINUM PROFILE + IRON BARS           |
| 4       | DIGITAL INSTRUMENTS MENTION IN THE USP |

Total Amount Rs. 8950001- for Non- Recurring + Rs. 100000/- for Recurring (1/3 of total Recurring amount) i.e. Total Amount Rs. 995000/- (Rupees Nine Lakh NinetyFive Thousand Only)

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(Shashikant P. Borker) Advisor (RIPD)

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# 20IAICTURIFD/RPS(POLICY-III)1352012-13

The Grantet shall fully implement to the official language policy of Union Gavernment and comply with the official language Act, 1963 and official language (use of official purposes of the Union Rules, 1976 etc.)

The lunds to the extent are available under the scheme

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- The sanction issues in exercise of the powers delegated to the Council. It is also certified that grant-in-ald is being released in conformity with file rules and Principles of the scheme. 16 12
- The Council does not provide permanent staff, However, Tachnical Project staff may be engaged only on contract basis after taking a formal approval from AICTE. The remuneration for such personnel may be fixed as per prevailing rules of the Institution. 18
- It should be ensured that no RPS project in favour of the same P.1, has been sanctioned during 2011-12 & 2012-13 before utilizing this amount and the matter be brought to the notice of this 19 Council immediately

Yours sincerely. 3.3.2013

38 M

(Shashikant P. Borkar) Advisor (RIFD)

The prescribed formats and Terms & Conditions are available in the application brochure. Note

Copy forwarded for information and necessary action to:

The Director/Registrar/ Principal PRIYADARSHINI COLLEGE OF ENGINEERING NEAR CRPF CAMPUS, HINGNA ROAD, DIGDOH HILLS NAGPUR-19

- 2. Dr. CHANDRASHEKHAR SAKHALE. PRIYADARSHINI COLLEGE OF ENGINEERING NEAR CRPF CAMPUS, HINGNA ROAD, DIGDOH HILLS NAGPUR-19
- Office of Director General of Audit GENERAL REVENUES, 3. AGCR BUILDING I.P. STATE, NEW DELHI-110 002.

**Guard File** 

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|      | 3.                | Grant-In-                               | eld Sanction   | oit :                                | 1                            | ÷           | Rs. 18800  | 00/-                        |                      |                       |                         |  |
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Each project sunctioned by AICTE is assigned a specific Ref. No. which is on pre-page. still correspondence address to AICTE regarding the project must quote this number along with year of sanction of the project; otherwise the correspondence may not be entertained.

Ref. No. 60224RID/RPS-62/Pvt (0 Policy/(2011-0

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The accounts of the grantee will be open for test check by the Council or Comptroller & Andited General of India or by any Officer designated by thom.

The institute/University shall no charge any ownheads on this project and will provide all the administrative support for completion of the project.

The granise shall utilize grants on only approved items of expenditure (list enclosed). However in case of the grantite wishes to recast the project, approval of Council must be obtained for the revised item of expenditure and they will maintain proper accounts of the expenditure as per the nomina/procedures of AICTE/Government of India.

The assets adquired wholly or substantially out of all inde Council for Technical Education's great shall not be disposed or sticumbered or utilize the purpose offer than those for which the Grast was given without proper sunction of the all tacks Council for Technical Education.

The grantee shall maintain an audited record of assets acquired wholly or substantially out of the grant-in-aid and a register or assets shall be maintained by the institute in the preceived lann i.e. GFR-19.

10. Interast on the sanctioned grant-in-old will be treated as part of the grant and shall be used for project purposes only and the same shall be monifored in the succest statement of accounts.

.11. The Annual Progress Report in the prescribed format along with Statement of Expenditure and Audited Utilization Certificate shall be submitted to AICTE not later than one month after completion of each financial year.

12. Project Completion Report (PCR) in the prescribed format along with the Audited Statement of Expectature indicating expenditure incurred in the total duration of the project in the prescribed format, utilization in the format and GFR-19 shall be submitted to the Council.

The Utilization Certificate (UC) supported by Audited Statement of Expenditure to the offect that the print has been utilized for the purpose for which it has been canciloned shall be furnished to the All India Council for Technical Education as early as possible after completion of the project it should contain the head-wise break up of expenditure made from the grant-th-aid provided by the Council.

The standes shall follows the terms and conditions of Research Promotion Scheme (RPS) as laid down by the council from time to time.

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Formulation Of Approximate Generalized Experimental Data Based Model For Chaff Cutter & Nursery Fertilizer Mixer Energized By Human Powered Flywheel Motor

#### RAJIV GANDHI SCIENCE AND TECHNOLOGY COMMISSION Government of Maharashara

No. RGSTC/File - 08/13PP-022/38 New Administrative Hunding, 19\* flow Opp. Mantralaya, Mumbai - 400032 Dated; 23 March, 2009,

#### Sintfing Order

Sub 1- Project Proposal entities a complation of approximate proceedinged experimental data have model (Generation of Design data) for (a) Chaff Cutting Process (b) Nurvery Fertilizer Mixing Process Energized by Ihuman Powered Plywheet Moure (H.P.F.M.)\*

Ref :-1) Project Proposal dated 21.01.2103 and letter dated 02-03-2009 received from the Principal . Priyadarshini College of Engineering, Nagnar

One of the objectives of the Rajiv Gandhi Science and Technology Commission is to bet as Galalyst or facilitator for transfer of technology from laboratories and other research efforts to application of Science and Technology on a larger scale. The Commission has formulated a whene "Assistance for S&T Applications". The project proposals received under the scheme an synthiced and placed before the Project Appnical Committee set up by the Commission

2 A project proposal entitled "Formulation of approximate generalized experimental data base model (Generation of Design data) for (a) Chaff outting Process tha Nursery fertilizer mixing process energized by human powered flywheet motor (ILP, F, M), was received from the Principal, Priyadarshini College of Engineering, Naggur The project many sydesign and develop agricultural implements.

3. The Rajiv Gandhi Science and Fechnology Commission is pleased to release an ancount of of Rs. 3,76,500- (Rs. Three takks sevenly six thousand and five bundred only) as the fixed installment of the total estimated approved cost of Rs. 4.53 takks (Rs. Four takts and fifty three thousand only) for implementation of the two years project to the Principal. Privadorshini College of Engineering. Nagpur, The College is requested to acknowledge the receipt of payment immediately.

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4. The Project status will be reviewed, in terms of the objectives and achievement, al-the end of every year offer the meript of the sanctioned amount. The College should submit the program report along with the Utilization Centificate and the Statement of Expenditore, to enable the Commission to complete the reviewing process.

Ø V. P. Kulkanti 1 t

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Senior Administrative and Linance Officer

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Copy forwarded with compliments for information and necessary action to:

[JP Dr. M.P. Singh, Principal, Priyadarshini College of Engineering, Near CRPF Comput. Hinganz Breat, Nagpur - 419 019.

21 Under Secretary & DDO, ROSTC.

Copy for information se :

1) Chaleman, RCSTC,

1) Secretary (IT& ST),

1

#### Rajiv Gandhi Science & Technology Commission

Dr. Nishn Meshrum, Sr. Scientific Officer. No. RGSTC/PPP-0179/2007. Government of Maharashitra New Administrative Bidg., 19<sup>th</sup> floor, Opp. Mantralaya, Mombai – 400032. Tel No. 022 22024177 / 22024711 Fax No. 022 22024755 Dated : 17<sup>th</sup> December, 2007

4

Dear Dr. D.D. Shah,

Sub:-Project Pre-Proposal :-"Generation of design data for nersurey fertilizate mixer energized by human powered fly wheel motor"

Ref:- Your letter No.PCE/2006-07/0337/ dated.11-07-2007.

Please refer to your above Project Pre-Proposals, submitted to the Rajiv Gandhi Science and Technology Commission, for which we thank you.

The Committee of Peers of the Commission, is its recent meeting considered the pre-proposals, related to your pre-proposal from other institute also( a list is enclosed) and opined that the concept presented therein require astworking of both the institutions for product development Such a multi-institutional project could be co-ordinated at one institution. It would be not only mutually complementary in terms of expert inputs but would have better focus and would generate useful database for the entire State. The investigators may please interact and suggest a possible work plan for such a networked project. With this input, we would be in a position to pursue this major initiative.

I am enclosing herewith the booklet on the Scheme "Assistance for S&T Applications".

With regards,

Yours sincerely,

Er. D.D. Shah, Principal, Priyadarshini College of Enginteering, Near CRPF Campus, Nagpur - 440 019.

Copy for information to : Dr. P.D.Mujumdar. (Advisor)

Formulation of Approximate generalized experiment data base model for agricultural implement (PPP-0175)

23

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Principal investigator: Q.S. Zakiuddin,

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Asst Prof & H.O.D, Dept. of Mech Engg. A.C.E.T, Nagpur.

Generation of design data for nersurey fertilizaer mixer energized by human 2. powered fly wheel motor. (0179)

Principal Investigator: Prof. A.A. Manker,

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Mechancial Department PCE, Near CRPP Campus, Hingna Road, Nagpur - 440 019.

| ALL ALL       | INDUA COMMUNIA PROVIDENT  |
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| 4 Ploor, NBCC | INDIA COUNCIL FOR TECHNICAL EDUCATION<br>Place, Bhishma Pitamah Marg, Lodhi Road, Pregab Vitur<br>New Dahi- 116 003 Teletax: 011-24309132 |
|               | King Pure President Maro Logica PUN   |
|               | New Debal- 110 003 Toletax: 011-24309132  |
| 622 PODMAA    |   |

F.No. 8023/80/R/RPS-131/2006-07

The Drawing and Disbursing Officer

Date: Fobruary 26, 2007

All India Counce for Technical Education indra Gandhi Sporte Complex, Indraprasthe Estate New Date - 110 002

Subject: Release of Grants under Research Promotion Scheme (RPS) Scheme for the Sir,

) ani directed to convey the sanction of the Council for payment of Rs 5.00 terms (Rupeas Five Lakhs only/ during 2006-07 under the Rosearch Promotion Scheme (RPS) as Grant-in aid to PRIVADARSHINI COLLEGE OF EMGG. & ARCHITEGTURE, CRIPF CAMPUS, DIGDON INC. PRIVADARSHINI COLLEGE OF EMGG. & ARCHITEGTURE, CRIPF CAMPUS, DIGDON INLES, HINGNA ROAD, NAGPUR, HIGO19 MANARASHTRA, for meeting the expenditure for implementing the Scheme as per details given below:

> M.P. Singh Mechanical Engo

Rz 5.00 takhs only

Rs.0.20 Lotors only Rs 4.80 Lakhs only

-Rs.5.00 texts only

Design & Davelopment of a Comprehensive Bamboo Processing Machine For Optimal Performance

Name of the Beneficiary Institution. (University / College / Institution) Privadarahini College of Engg. & Anh. CRPFCampus, Digiton Hiss, Horgina Road, Negpur-440019 Moherashtra

Chief Coordinator Name & Dept. 2

35 Title of the Project

Grant-In-aid Sanctioned 4. Recuiring Non-Recurring

畜 Amount to be released (list & Final Instalment) 10

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Approved Duration (in Years)

2 (Two) Years

The sanctioned granthin-aid is debitable to the major Nead RPS/Plan grant and is valid for payment ouring the intended year 2005-07.

The grant-mail of the grant shall be cream by the Drawing and Disbursing Officer (DDO). As may Council for Technical Education, New Delki on the Grants-mail bit and shall be disbursed to and credition to the Philoppis/Director/Repairer PATYADARS/INU COLLEGE OF ENGG & ARCHITECTURE, CRPF CAMPLS, DIGDOH HELLS, MINUNA ROAD NAGPOR 440019 MANARASHTRA, Brough Semand graft/Choose

The date of volcase of the grant by A/CTE shall be taken as the date of commands/verd of the project. The Registranty nopeo Director shar intimate about the ruceipt of the grant to AICTE any Expenditure uncured price the lassence of the approval locar is not alcoved to be adjusted in the grant and if the University/Institution do not take the project work within 6 months of the mostor of the grant, approval shall (pso facto lapse)

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Each project s inctioned by AICTE is assigned a specific file to which is on on-page. All correspondence addressed to AICTE reparting the project must quote this number along with your of sanction of this project; otherwise the correspondence may not be extentianed.

The accounts ... the grantee will be open for test oblick by the Council or Comptroller and Audited General of India or by any Officer designated by them

The Instituted intrensity shall not charge any eventeeds on this project and will provide all the administrative support for completion of the project.

The granise shall utilize grants on only approved tients of expenditure (itst enclosed). However, in gase of the grantee wishes to recest the project, approval of Council must be obtained for the revised item of expenditure and they will enalitatin proper accounts of the expenditure as per the normal procedures of AICTE / Government of India.

The essets accurred wholly or substantially out of All testie Council for Technical Education's grant shall not be disposed or encumbered or utilize the porposes bliver than those for which the Grant was given without proper sending of the All india Council for Technical Education.

The grantee shall maintain an audited record of assets acquired wholly or substantially out of the grant-in-old and a register of assets shall be maintained by the institute in the prescribed form i.e. GPR-19. 1

10. Interest on the sanctioned grant-in-aid will be treated as part of the grant and shall be used for project purposes only and the same shall be mentioned in the audited statement of accounts.

The Annual Progress Report in the prescribed formal along with Statement of Experititure and Audited Utilization Certificate shall be submitted to AICTE not later than one month after completion of each financial year.

Project Completion Report (PCR) in the prescribed formal along with the Audited Statement of Expenditure indicating expenditure incurred in the total duration of the project in the prescribed format, utilization in the format and GFR-19 shall be submitted to the Council.

The Utilization Certificate (U.C.) supported by Audited Statement of Expenditure to the effect that the grant has been utilized for the purpose for which it has been statisticated shall be turnished to the All India Council for Technical Education as early as possible after completion of the project. It All India Council for Technical Education as early as possible after completion of the project. It stored contails the fixed-wate preak up of expenditure made from the grant-in-ext provided by the Council as

The grantee shall follows the forms and consistions of Research Promotion Scherbe (RPS) as lold down by the Council from time to time. The detailed terms and conditions for moleculation RPS down by the Council from time to time, and as website www.siste.effici.it.

 The Grantee shall fully implement to the official language policy of Unide Government and compty with the official language Act, 1963 and official language base of official purposes of the Union Roles, 1976 etc.)

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F.No 8020/BOR/RPS-151/2008-07

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18. The seriction issues in exercise of the powers delegated to the Council, It is also certified mat grant-in old is being released in conformity with the rules and the Principle of the scheme

L'Yours enginery (Swodesh K, Gupta)

Advisor (RID)

Note. The prescribed formats & Terms & Conditions are similable in the application brochure.

Copy forwarded for information and recessary action to.

1 The Principal/Registrar/Director PRIVADARSHINI COLLEGE OF ENGINEERING & ARCHITECTURE CRPE CAMPUS, DIGDOH HILLS, HINGNA ROAD •••••• NAGPUR 440019 MAHARASHTRA  $\mathcal{L}^{(1)}$ 

M P SINGH

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DEPT OF MECHANICAL ENGINEERING DEP FOR MECHANICAL ENGINEERING PRIYADARSHINI COLLEGE OF ENGINEERING & ARCHITECTURE ORPE CAMPUS, DISDOH HALS, HINGNA ROAD NAGRUR-440019 MAHARASHTRA

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3. Office of Director General of Audit,

General Revenues,

AGCR Building (P. Estate, New Delhi - 110 002.

4. Guard File. \*

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION a" Floor, N SCC Place, Bhishma Pitamph Marg, Leghi Road, Pregati Vihar New Deltri - (10 003

5323/BOR/RPS-131/2006-07

MP SINGH

File no.

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North of the Principal Investigator ALC: NO PARTY & Depti

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Name of the institution

MECHANICAL ENGINEERING PRIVADARSHINE COLLEGE OF

ENGINEERING & ARCHITECTURE CHPF CAMPUS, DIGDON HILLS HINGNA ROAD NAGPUR- 440019 MAHARASHTRA

DESIGN & DEVELOPMENT OF A COMPREHENSIVE BANBOO PROCESSING MACHINE FOR OPTIMAL PERFORMANCE

Title of the Project

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Approved item & Expenditure

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|                   |              | - Company - Comp |   |

tr)



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Deputy Director