



**PANDIT DEENDAYAL ENERGY UNIVERSITY**  
Formerly known as  
**PANDIT DEENDAYAL PETROLEUM UNIVERSITY**

Raisan, Gandhinagar - 382007, Gujarat, INDIA.

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Recognized by the University Grants Commission u/s 2(f)

NAAC Accredited 'A' Grade, (CGPA 3.39 out of 4.00)

110525

**No. R&D/SRP/2021/015**  
**Student Research Program**  
**Office of Dean R&D**

**02-09-2021**

**Subject:** Financial assistance for Research Project under Student Research Program entitled 'Design and Development of SMART bin for High-Density Residential Areas' by 1. Harshvardhan Gaikwad (20BEE017) 2. Aayush Mishra (20BEE069) 3. Dhruv Odedra (20BEE044) 4. Khushi Agrawal (20BEE003) 5. Vrinda Dadheech (20BEE033)

1. Sanction of the Director General, PDEU is hereby accorded to the above mentioned project at a total cost of **Rs. 1,30,000/-** with the break up as follows for a duration of 1 year.

Sr No	Head	Details	Sanctioned (Rs.)
1	Equipment(s)	Household Biogas Plant, Electronic Systems, Arduinos and sensors, Batteries, Smart Bin	120000/-
2	Contingency		10000/-
3	Total		130000/-

2. Sanction grant is subject to the terms and conditions as detailed in Annexure-I  
3. The sanction has been issued with the approval of the Director General.



Prof. Anirbid Sircar  
Dean- R&D

To:

1. Harshvardhan Gaikwad (20BEE017)
2. Aayush Mishra (20BEE069)
3. Dhruv Odedra (20BEE044)
4. Khushi Agrawal (20BEE003)
5. Vrinda Dadheech (20BEE033)
6. Dr. Pavan Venkata, School of Technology
7. Mr. Rahul Deharkar, School of Technology
8. Director- School of Technology
9. Accounts Officer
10. File Copy

# Annexure – I

## Terms & Conditions of the Grant under Student Research Program

1. Approval of the research proposal and the grant being released is for the specific project sanctioned and should be exclusively spent on the project related activities within the stipulated time. The student may seek funds or in kind support from relevant industry (Government, Semi-Government, Autonomous and Private) for this research project keeping the University informed about the same.
2. The Student / Project Guide(s) shall ensure that the fund released towards the project is used exclusively and appropriately in support of the research project for which it has been sanctioned.
3. Any expenditure incurred prior to the issue of the financial sanction/approval order and after the expiry of the sanctioned duration of the project will not be admissible.
4. The Student / Project Guide(s) is expected to settle the accounts within 1 (One) week from the date of completion of the project.
5. Any un-spent balance out of the amount sanctioned must be surrendered to the University after the duration of the project is over. The following documents need to be submitted to the University after the project duration is over along with the DD/ cash for the unspent grant, if any:
6. Final Consolidated Statement of Expenditure(in duplicate) giving expenditure quarterly from date of start till date of completion;
7. Utilization Certificates (FY wise) for all FYs (in duplicate) matching with Statement of Expenditure figures;
8. Three copies of Project Completion Report (PCR) with publication list, patents filed/ likely to be filed, and other manpower trained along with one softcopy of the PCR including an Executive Summary; and List of assets acquired through Capital grants.
9. All the assets acquired from the grants will be the property of PDEU.
10. In addition, The University may designate Scientist/ Specialist or an Expert Panel to review the progress of the work being carried out and to suggest suitable measures to ensure realization of the objectives of the project.
11. The Student / Project Guide(s) are expected to attend Monitoring Meetings/Workshop to present the progress/outcome of the research project, as and when organized by The University.
12. The University reserves the right to terminate the project at any stage if it is convinced that appropriate progress is not being made or the grant has not been properly utilized.
13. The project becomes operative within 3 days from the date on which first advance or reimbursement is received by Student / Project Guide(s).
14. If the Student / Project Guide(s) to whom a grant for a project has been sanctioned, wishes to leave the University, the Student / Project Guide(s) will inform the same to ORSP immediately and will ensure that the Co-PI / Co-Guide, if any is appointed in consultation with the ORSP who can take over the responsibility of project implementation. This consultation with ORSP needs to be done before relieving the Student / Project Guide(s).

15. The Students need to submit a research paper indexed in scopus and a design patent before the submission of final project report.
16. If the results of research are to be legally protected, the results should not be published without action being taken to secure legal protection for the research results.
17. The projects identified by the University that have potential for generating know-how in the form of product/ process/ design etc. through patents, copyrights etc. should preferably follow the University guidelines for patenting/ copyright. A copy of any such application should also be submitted to ORSP.
18. IPR generated through student research projects by Student / Project Guide(s) and industrial concern(s) through joint efforts can be owned jointly by University as may be mutually agreed and with the prior approval and consent from Director General.
19. In implementation of the provisions of these rules as mentioned above in conjunction with "Rules for grant of financial assistance to Student Research Projects" and any updates and other guideline(s), if any difficulty or question arises as to the interpretation of any provision, the decision of the Director General, PDEU shall be final.
20. The candidates will be bound by the rules and regulations of the University as applicable during their course of study at PDEU.

By order and in the name of the Director General, PDEU

Sd/-

**Dr. Anirbid Sircar**

Chairman, Student Research Program

Accepted by Students, Guide & Co - Guide:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.



### Proposed Timeline for Project Execution

Sr. No.	Proposal	Proposed Dates
1	1 <sup>st</sup> Progress Report to be submitted by Student/Project Guide	15-Nov-21
2	2 <sup>nd</sup> Progress Report to be submitted by Student/Project Guide	15-Jan-21
3	1 <sup>st</sup> Scopus indexed paper to be submitted	15-Feb-22
4	1 design registration to be filed	15-Apr-22
5	Project completion/submission report	20-Aug-22

### Proposed Timeline for Funding

Sr. No.	Proposal	Proposed Dates
1	*40% of the sanctioned amount to be released by (First Installment)	30-Sep-21
2	*40% of the sanctioned amount to be released by (Second Installment)	31-Jan-22
3	20% of the sanctioned amount to be released on the completion of the project. (Third Installment)	30-Apr-22

\* A request note to be sent in advance to Dean- R&D incase of any major purchase like equipments/consumables above the sanctioned amount as part of the 1st or the 2nd installment.