

## 7.4 Energy and Community

### 7.4.2 Renewable Energy



#### 7.4.2 - Does your university as a body promote a public pledge toward 100% renewable energy (petitions, meetings, discussions, events) beyond the university?

Yes, Our university actively promotes a **public pledge toward 100% renewable energy**, extending its influence beyond campus **through workshops, pledge events, meetings, and awareness campaigns**. In partnership with **local bodies and NGOs**, the institution encourages rooftop-solar adoption, LED usage, and energy-efficient practices among households and small businesses. Public demonstrations, solar model displays, and **training in energy auditing** help citizens understand practical clean-energy solutions. Policy dialogues with experts and government officials further strengthen community readiness for renewable-energy transition. Through sustained outreach, collaborative initiatives, and **capacity-building programs**, the university reinforces community commitment to SDG 7 and accelerates the shift toward clean, affordable, and sustainable energy for all.



**St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
(Deemed to be University U/S 3 of the UGC Act, 1956)  
 AVADI, Chennai - 600 054, Tamil Nadu.

Phone: 044-26558080-84  
 E-mail: registrar@spiher.ac.in  
 Website: www.spiher.ac.in

### Community Energy Outreach and Clean Energy Promotion Policy

<b>Policy Created on:</b>	01/07/2020	<b>Approved by:</b>
<b>Revision 1</b>	10/02/2024	
		<b>REGISTRAR</b>



**Registrar**  
 St. Peter's Institute of Higher Education and Research  
(Deemed to be University U/S 3 of the UGC Act, 1956)  
 Avadi, Chennai-600 054.

**Directly supported SDGs**

- **SDG 7 Affordable and Clean Energy**
- **SDG 13 Climate Action**

**Indirectly supported SDGs**

- **SDG 4 Quality Education**
- **SDG 11 Sustainable Cities and Communities**
- **SDG 17 Partnerships for the Goals**



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## Community Energy Outreach and Clean Energy Promotion Policy

### Introduction

SPIHER affirms its dedication to promoting energy literacy, clean technology adoption, and climate action within the local community. This Community Energy Outreach and Clean Energy Promotion Policy reflects the Institute's expanded engagement through digital education, rural partnerships, and research-based community development. It aligns with India's National Mission for Enhanced Energy Efficiency (NMEEE) and supports SPIHER's vision of being a catalyst for sustainable social transformation.

### Purpose

The purpose of this revised policy is to strengthen and scale SPIHER's community initiatives on energy conservation and clean energy promotion. It seeks to enhance the Institute's outreach capacity by integrating modern communication tools, interdisciplinary expertise, and measurable sustainability outcomes.

### Scope

This policy applies to all departments, clubs and extension centres engaged in community development. The program extends to rural panchayats, schools and self-help groups in Tamil Nadu's semi-urban and rural regions.

### Revised Policy Framework

- **Digital Energy Literacy Campaign:** SPIHER will launch digital platforms, mobile awareness drives and events to educate households on energy efficiency practices.
- **Women and Youth Empowerment:** Tailored programs will train women self-help groups and rural youth in solar entrepreneurship and sustainable livelihoods.
- **Partnerships and Collaborations:** SPIHER will collaborate with BEE-certified partners for community capacity building.
- **Research and Innovation:** Faculty and students will undertake action research on local energy patterns and recommend customized clean energy solutions.



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- **Impact Monitoring:** The outreach impact will be assessed through key indicators such as local community reach, training hours delivered and energy savings achieved.

#### Governance and Implementation

The Office of Outreach and Sustainability will be the nodal body for implementation, guided by the Sustainability Committee. Periodic audit report will be compiled and analyzed for transparency and accountability.

#### Conclusion

Through this policy, SPIHER advances its mission of fostering sustainable development through education, research, and social engagement. By empowering communities with knowledge on energy efficiency and clean energy, SPIHER continues to drive positive environmental change and inclusive growth in society.

10.2.2024

  
**REGISTRAR**



Registrar  
St. Peter's Institute of Higher Education and Research  
(Deemed to be University U/S 3 of the UGC Act, 1956)  
Avadi, Chennai-600 054.

## 1. Introduction

St. Peter's Institute of Higher Education and Research (SPIHER) is deeply committed to promoting clean, affordable, and sustainable energy solutions through education, research, and large-scale community engagement. The university actively advocates for the adoption of renewable energy beyond the campus by conducting public awareness programmes, training programmes, pledge campaigns, and collaborative initiatives with government bodies and non-governmental organisations.

In alignment with the United Nations Sustainable Development Goals, particularly SDG 7 (Affordable and Clean Energy) and SDG 13 (Climate Action), SPIHER functions as a catalyst for behavioural change, technological adaptation, and community empowerment. The university acknowledges that achieving 100% renewable energy requires both awareness and action, and therefore extends its role beyond classrooms and laboratories into society.

## 2. Institutional Commitment to Renewable Energy

SPIHER's commitment to renewable energy is reflected through:

- Public renewable-energy advocacy
- Community-based energy literacy programmes
- Integration of sustainability into academic curricula
- Capacity-building workshops and demonstrations
- Active engagement with policymakers and energy experts

The institution views sustainability as a shared social responsibility, encouraging people of all backgrounds to participate in the clean-energy transition.

## 3. Public Pledge and Awareness Campaigns

SPIHER actively promotes public commitment to renewable energy through structured awareness and engagement programmes.

### 3.1 Pledge Drives and Outreach Campaigns

- Public pledge events on sustainable energy usage
- Community commitment campaigns during environment and energy-awareness weeks
- Encouragement of households to shift toward renewable sources such as rooftop solar

### **3.2 Community Meetings and Dialogues**

- Public meetings highlighting the importance of renewable energy
- Discussions on government solar-energy schemes and subsidies
- Interactive forums with renewable-energy experts

### **3.3 Awareness Events**

- Renewable-energy exhibitions
- Clean-energy rallies and campaigns
- Environmental celebrations with sustainability themes
- These initiatives promote accountability and long-term community participation.

## **4. Community Engagement and Capacity Building**

SPIHER conducts targeted community outreach programs to improve renewable-energy literacy.

### **4.1 Workshops and Training**

The university organizes:

- Solar-energy awareness workshops
- Training in energy conservation methods
- Programs on eco-friendly appliance usage
- Awareness on residential energy efficiency

### **4.2 Collaborations**

SPIHER partners with:

- Local government bodies
- Environmental and energy-based NGOs
- Technical experts
- Educational institutions

These collaborations increase reach and community participation.

### 4.3 Demonstrations and Exhibitions

- Solar model demonstrations
- Grid-interconnected power-system displays
- LED usage demonstrations
- Solar lighting system exhibitions

These help community members understand technology through hands-on learning.



**Glimpses of the Outreach Activity where Faculty Members of SPIHER enlighten the Local Community on Utilizing Renewable Energy Sources**

## 5. Major Research Contribution: DST Funded Project on Solar Energy Systems

SPIHER's commitment to clean energy is further strengthened by its major funded research initiative supported by the Department of Science and Technology (DST), Government of India.

### Project Title:

Design and Development of Thin Film / Flexible – 10 kW Solar-Based Power System with Grid-Tie Inverter for Puzhal Panchayat Union

**Sanctioned Amount: Rs. 99,62,000/-**

**GOVERNMENT OF INDIA**  
 Ministry of Science & Technology  
 Department of Science & Technology  
**DST/CES/CEI/OFF-GRID/SC-ST/2024/PR07 (G)**  
 (Circular, Energy and Sustainable Technology (CEST))

Technology Bhawan, New Delhi  
 Dated: 10/05/2024

**Sanction Order**

**Subject:** Financial assistance for the project entitled "Design and Development of Thin Film / Flexible-10 kW-Solar based Power System With Grid-Tie Inverter for Puzhal panchayat Union" submitted by Dr. Dinesh Kumar, ST-PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH, CHENNAI, CHENNAI, TAMILNADU, 600054 in pursuance of the First installment regarding.

In pursuance of this department's sanction order of serial number dated 28/03/2024, sanction of the President is hereby accorded to the approval in the above mentioned project at a total cost of **Rs. 99,62,000/- (Rupees Ninety Nine Lakh Sixty Two Thousand only)** for a duration of **2 Years 11 Months 30 Days**. The detailed breakup of the grant for General as well as Capital Component are given below:-

**General Component : ₹ 54,62,000/-**  
**Capital Component : ₹ 45,00,000/-**

Items	Budget Summary (in Rs.)			
	Year-1	Year-2	Year-3	Total
<b>1- Non-Recurring</b>				
Permanent Equipment-FLEXIBLE-THIN FILM Solar Panel-10kW, Grid-Tie Inverter-10 kW, Utility energy Meter & Accessories, Data acquisition and Monitoring System - 3	3100000	300000	300000	3600000
Plant cost (Fabricated systems/Demonstration models-Assembly parts & Fitting - 2	600000	200000	100000	900000
<b>Subtotal (Capital)</b>	<b>3700000</b>	<b>500000</b>	<b>300000</b>	<b>4500000</b>
<b>2- Recurring</b>				
Project Staff	684000	684000	744000	2112000
Junior Research Fellow (JRF)-1 (For assisting in system integration)	444000	444000	504000	1392000
Laboratory Assistant/Technician/Technical Assistant/Field Assistant-1 (For assisting in system integration)	240000	240000	240000	720000
Consumables	600000	400000	200000	1200000
Contingency	100000	100000	100000	300000
Travel	100000	100000	100000	300000
Overhead	300000	300000	300000	900000
Other Cost-Outsource work, Training/Program, Other items, if any	30000	30000	30000	150000
Workshops/Training programs for workshops/training programs in SC-ST dominated Areas	100000	200000	200000	500000
<b>Subtotal (General)</b>	<b>1934000</b>	<b>1834000</b>	<b>1694000</b>	<b>5462000</b>
<b>Total Project Cost (Cap.+ Gen.)</b>	<b>5634000</b>	<b>2334000</b>	<b>1994000</b>	<b>9962000</b>

2. The sanction of the President is also accorded to the release of **Rs. 19,34,000/- (Rupees Nineteen Lakh Thirty Four Thousand only)** to the "Director/Registrar/Principal/Controller/Comptroller, ST. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH" being the First installment of grant as mentioned above table under "General Component" for the above mentioned project.

3. The expenditure involved is debitable to **Demand No. 89, Department of Science & Technology for the year 2024-2025:**

₹ 99,62,000/-

3425	Other Scientific Research(Major Head)
3425.60	Others : (Sub-Major Head)
3425.60.789	Special Component Plan for Scheduled Castes
3425.60.789.15	Innovation,Technology Development and Deployment
3425.60.789.15.00	Detailed Head
3425.60.789.15.00.31	Grants-in-aid General
	(Previous: 3425.60.789.01.01.31)

4. The amount of Rs. 1/- (Rupee One only) against the sanctioned amount of 19,34,000/- (Rupees Nineteen Lakh Thirty Four Thousand only) will be drawn by DDO, DST and disbursed to the "CNA account of SERB in respect of Innovation,Technology Development and Deployment Scheme".

Name of A/C Holder	Innovation Technology Development and Deployment
Bank A/C No	349902010051240
Name of the Bank & branch	Union Bank of India, Safdarjung Enclave - New Delhi
RTGS/IFSC code	UBIN0534994

5. CNA shall assign/allocate the amount of Rs. 19,34,000/- (Rupees Nineteen Lakh Thirty Four Thousand only) to the Director/Registrar/Principal/Controller/Comptroller, ST. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH" as per details given below:-

Name of A/C Holder	St. Peter's Institute of Higher Education and Research
Bank A/C No	101412010002200
Name of the Bank & branch	Union Bank of India
RTGS/IFSC code	UBIN0810142

6. As per Rule 234 of CFR 2017, the sanction has been entered at S. No 10 . in the register of grants maintained in the Climate, Energy and Sustainable Technology (CEST) for the scheme Renewable Energy System .

7. This issues with the concurrence of IED vide their Concurrence Dy/ No. IED/C/II/090524/31.000417 dated 09/05/2024.

8. The GI will keep all the funds received in the Central Nodal Account only and shall not transfer the funds to any other account or not divert the same to Fixed Deposits/ Flexi-Account/ Multi-Option Deposit Account/ Corporate Liquid Term Deposit (CLTD) account etc. The funds released to GI shall not be parked in bank account of any other agency.

9. The GI will ensure the compliance of OM. No. F.No. 1(18)/PFMS/PCD/2021 dated March 9, 2022 of Department of Expenditure, Ministry of Finance.

10. The Institute is registered on Darpan Portal Id-TN/2018/0193481

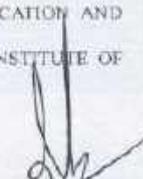
11. This sanction order is subject to the Terms & Conditions as annexed .

  
Dharendra Tiwari  
(Scientist - 'D')  
d.tiwari@gov.in

To,  
The Pay & Accounts Officer,  
Department of Science & Technology,  
New Delhi - 110 016.

Copy of information and necessary action to:-

1. The Principal Director of Audit, Scientific Department, IIrd floor, AGCR Building, I.P. Estate, New Delhi
2. The Financial Advisor, Integrated Finance Division, Technology Bhavan, New Mehrauli Road, Block C, Qutab Institutional Area, New Delhi, Delhi 110016
3. The Internal Audit Wing, Department of Science & Technology, Technology Bhavan, New Mehrauli Road, Block C, Qutab Institutional Area, New Delhi, Delhi 110016
4. Drawing and Disbursing Officer, DST, Cash Section. (two copies)
5. Dr. Dinesh Kumar, Assistant Professor, Mechanical, ST. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH, Chennai, Chennai, Tamilnadu - 600054
6. The Director/Registrar/Principal/Controller/Comptroller/Chief Executive Officer(CEO), ST. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH, Chennai, Chennai, Tamilnadu - 600054
7. Secretary, SERB, New Delhi ( for allocation of limits to implementing agency )
8. Head (Climate, Energy and Sustainable Technology (CEST)) DST
9. Sanction Folder (Climate, Energy and Sustainable Technology (CEST))

  
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GOVERNMENT OF INDIA  
Ministry of Science & Technology  
Department of Science & Technology  
**DST/CEST/CERI/OFF-GRID/SC-ST/2024/PR07 (G)**

**Terms & Conditions**

1. The grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report (Vis-a-Vis Target Vs-Achievement) at the end of each financial year duly reflecting the interest earned / accrued on the grant received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.
2. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.
3. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE/UC has to be furnished for the released Capital head grant.
4. The grant-in-aid being released is subject to the condition that:-
  - a) A transparent procurement procedure in line with Provisions of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant.
  - b) While submitting Utilization Certificate/Statement of Expenditure, the organization has to ensure submission of supporting documentary evidences with regard of the purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.
5. As per the GFR 2017 Rule 230 (8) the Grantee Institute should ensure that all the interests or other earnings against Grant-in-Aid or advances (other than reimbursement) released to any Grantee institution should be mandatorily remitted to the Consolidated Fund of India immediately after finalization of the accounts. Such advances will not be allowed to be adjusted against future releases.
6. As per the GFR 2017 Rule 230 (17) "the Grantee Institute should agree to make reservations for Scheduled Castes and Scheduled Tribes or OBC in the posts or services under its control on the lines indicated by the Government of India".
7. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e. [www.bharatkosh.gov.in](http://www.bharatkosh.gov.in)), immediately after finalization of accounts, as it shall not be adjusted towards future release of Grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/ Utilization Certificate for considering subsequent release of Grant/ Closure of Project accounts.
8. DST reserves sole rights on the assets created out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.
9. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.
10. Due acknowledgement of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publication / media release as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.
11. Failure to comply with the terms and conditions of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.
12. It is mandatory to use EAT module in PFMS, failing which no further funds shall be released.
13. Goods (Consumable/Equipment) available in GeM portal are to be procured mandatorily online through GeM only as per the provisions of Rule 149 of GFR.
14. The Grantee Institute should follow Global Tendering Enquiry (GTE) conditions as per Department of Expenditure ID Note No:4/1/2021-PPD dated 10.09.2021.
15. If One time assistance or non-recurring grant as Grant-in-Aid for Rs. 10.00 lakhs to Rs. 50.00 lakhs, it should be included in the Annual Report of the Institute.
16. The Grantee Institute must ensure any other provisions of GFR-2017 (<https://doe.gov.in/order-circular/general-financial-rules2017-0>) and guidelines/amendments issued from Govt. of India from time to time.

  
अंतराज



भारत सरकार  
विज्ञान और प्रौद्योगिकी मंत्रालय  
विज्ञान और प्रौद्योगिकी विभाग  
DST/CEST/CERI/OFF-GRID/SC-ST/2024/PR07 (G)  
निबंधन और शर्तें

1. अनुदानग्राही संस्थान प्रत्येक वित्त वर्ष के अंत में इस परियोजना के अंतर्गत प्राप्त अनुदान पर अर्जित/प्रोद्भूत ब्याज को विविध रूप से दर्शाते हुए अद्यतन प्रगति रिपोर्ट (लक्ष्य ब्रह्मण उपलब्धि) के साथ जीएफआर 2017 में विनिर्दिष्ट प्ररूप में वित्तीय वर्ष-वार उपयोग प्रमाण पत्र (पूजी) और व्यय का लेखापरीक्षित विवरण (एसई) विज्ञान और प्रौद्योगिकी विभाग को प्रस्तुत करेगा। यह परियोजना की समाप्ति की निर्धारित तारीख से एक वर्ष भीतर व्यय का अंतिम विवरण, उपयोग प्रमाण-पत्र और परियोजना समाप्ति रिपोर्ट प्रस्तुत करने की शर्तों के भी अध्वधीन है।

2. अनुदानग्राही संस्थान को उपयोग प्रमाण-पत्र इस प्रभाग में भौतिक रूप में भेजने के साथ-साथ पीएफएमएस पोर्टल पर प्रविष्ट और अपलोड करना होगा। अनुवर्ती/अंतिम किस्ता प्रभाग द्वारा पूजी की स्वीकृति की पुष्टि और पीएफएमएस में पूर्ववर्ती उपयोग प्रमाण-पत्र की प्रविष्टि के बाद ही जारी की जाएगी।

3. यदि अनुदान एक ही परियोजना के अंतर्गत उपस्कर (सी) की खरीद के लिए पृथक संस्वीकृति आदेश के माध्यम से पूजी-शर्तों के अंतर्गत जारी किया गया है तो जारी किया गया पूजी-शर्तों अनुदान के लिए पृथक एसई/पूजी प्रस्तुत करना होगा।

4. जारी किया जा रहा सहायता अनुदान निम्नलिखित शर्तों के अध्वधीन है-

क) उपर्युक्त परियोजना के लिए संस्वीकृत पूजी अस्तित्वों की खरीद करते समय अनुदानग्राही संस्थान के उचित नियमों के तहत संस्थान-संगठन द्वारा सामान्य वित्तीय नियमावली 2017 के उपबंधों के अनुरूप पारदर्शी खरीद प्रक्रिया का अनुपालन किया जाए और अनुदान प्राप्ति पर तुरंत प्रभाव से अनुदानग्राही संगठन द्वारा इस आशय का प्रमाण-पत्र प्रस्तुत किया जाए।

ख) उपयोग प्रमाण-पत्र/व्यय विवरण प्रस्तुत करते समय, संगठन को जीएफआर 2017 के उपबंधों के अनुसरण में उपस्कर/पूजी अस्तित्वों की खरीद के संबंध में संबंधित दस्तावेज-साक्ष्य प्रस्तुत करना सुनिश्चित करना होता है।

5. जीएफआर नियमावली 2017 के नियम 230 (8) के अनुसार अनुदानग्राही संस्थान को सुनिश्चित करना चाहिए कि किसी भी अनुदानग्राही संस्थान को जारी किए गए सहायता अनुदान या अग्रिम (प्रतिपूर्ति से भिन्न) पर प्राप्त समस्त प्रकार के ब्याज या अन्य आय को लेखों को अंतिम रूप दिए जाने के तुरंत बाद भारतीय समेकित निधि में अनिवार्य रूप से विधेयित किया जाए। ऐसे अग्रिमों को भविष्य में जारी की जाने वाली निधियों में समापोजित करने की अनुमति नहीं दी जाएगी।

6. जीएफआर नियमावली 2017 के नियम 230 (17) के अनुसार, "अनुदानग्राही संस्थान को भारत सरकार के निर्देशानुसार अपने नियंत्रणाधीन पदों या सेवाओं में अनुसूचित जाति या अनुसूचित जनजाति या अंबीसी के लिए आरक्षण रखने पर सहमत होना चाहिए।"

7. अनुदानग्राही संस्थान परियोजना का पृथक परीक्षित लेखा रखेगा और अनुदान की समस्त राशि बैंक खाते में सब्याज रखी जाएगी। वित्तीय वर्ष 2017-18 के दौरान और उसके बाद जारी अनुदान के लिए, अनुदान के लिए सभी प्रकार के ब्याज या अन्य आय ऐसे लेखों को अंतिम रूप दिए जाने के तुरंत बाद भारतीय समेकित निधि में तैर कर प्राप्ति पोर्टल (एनटीआरपी) अर्थात् [www.bharatkosh.gov.in](http://www.bharatkosh.gov.in) के माध्यम से विधेयित की जाएगी, क्योंकि यह राशि भविष्य में जारी की जाने वाली राशि में समापोजित नहीं की जाएगी। अनुवर्ती अनुदान के निर्गम/परियोजना खाते को बंद करने पर विचार किए जाने के लिए, व्यय विवरण/उपयोग प्रमाण-पत्र के साथ इस आशय का प्रमाण पत्र प्रस्तुत करना होगा।

8. डीएसटी, अनुदान से सुचित परिसंपत्तियों पर एकमात्र सुरक्षित अधिकार रखता है। सरकारी अनुदानों से पूरी तरह से या पर्याप्त रूप से अर्जित संपत्ति (जीएफआर 2017 में निर्धारित प्रक्रिया के अनुसार अप्रचलित और अनुप्रयोज्य, अनुपयोगी घोषित अनुदानों से इतर), का नियंत्रण डीएसटी का पूर्व अनुमोदन प्राप्त किए बिना नहीं किया जाएगा।

9. जैसा कि सामान्य वित्तीय नियमावली 2017 के नियम 236 (1) के तहत निर्धारित किया गया है, अनुदानग्राही संगठन का लेखा स्वीकृति प्रदाता प्राधिकारी और लेखा परीक्षक (भारत के निबंधक एवं महालेखापरीक्षक और डीएसटी के प्रधान लेखा कार्यालय दोनों द्वारा आंतरिक लेखा परीक्षा) द्वारा निरीक्षण किए जाने, जब भी संगठन को ऐसा करने के लिए कहा जाता है, हेतु अभिगम्य होगा।

10. इस परियोजना अनुदान से प्राप्त तकनीकी सहायता/वित्तीय सहायता की उचित यावती को अनुदानग्राही संगठन द्वारा सभी प्रकार/मिडिया प्रकाशनी में मोटे अक्षरों में और परियोजना के पूरा होने के दौरान और तदुपरांत उनकी वार्षिक रिपोर्टों के शुरुआती पैराग्राफों में अनिवार्य रूप से दिखाया किया जाना चाहिए।

11. बॉन्ड के नियमों और शर्तों का पालन करने में असफल होने पर जीएफआर 2017 के नियम 231 (2) के अनुसार पूरी राशि सब्याज वापस करनी होगी।

## Project Objective:

This DST-funded project aims to design, develop, and deploy a 10 kW solar-based power system using thin-film and flexible solar technology integrated with a grid-tie inverter. The project is focused on supporting the energy needs of the Puzhal Panchayat Union, demonstrating the application of clean-energy solutions in a real-world rural governance environment.

## Key Features of the Project:

- Development of lightweight and flexible solar modules
- Installation of a grid-connected solar power system
- Real-time demonstration of solar-performance efficiency
- Support for public-infrastructure energy needs
- Integration of research with community benefit

## Societal Impact:

This project:

- Enables energy generation from renewable sources
- Reduces dependency on conventional electricity
- Promotes solar adoption at the community-governance level
- Demonstrates scalable technology for rural electrification
- Encourages sustainable public infrastructure

## Academic and Community Significance:

The DST project serves as:

- A live research and demonstration platform
- A training ground for students and faculty
- A reference model for future renewable-energy deployment
- A monitoring and evaluation system for performance analysis

The project strongly supports government energy policies and reflects SPIHER's leadership in converting research into community impact.

## 6. Energy-Efficiency Promotion

SPIHER encourages practical energy-saving practices such as:

- LED transition awareness
- Adoption of energy-star-rated appliances
- Education on power consumption reduction
- Basic energy auditing at household level

Participants receive guidance on how to implement energy conservation in daily life.

## 7. Policy Advocacy and Expert Engagement

SPIHER facilitates discussions involving:

### 7.1 Expert Talks

- Government officials
- Renewable-energy engineers
- Environmental experts
- Policy advisors

### 7.2 Community Dialogues

Topics discussed include:

- Renewable-energy incentives
- Financial feasibility
- Solar-installation procedures
- Grid-integration methods

These interactions deepen knowledge and policy awareness.

## 8. Measurable Impact and Outcomes

The outcomes of SPIHER's renewable-energy initiatives include:

- Increased public awareness about solar energy

- Community interest in rooftop solar adoption
- Skill development through workshops
- Student involvement in real-world energy projects
- Strengthened rural clean-energy infrastructure
- Reduced carbon footprint

## 9. SDG Alignment

SPIHER actively contributes to:

SDG 7 – Affordable and Clean Energy

SDG 11 – Sustainable Cities and Communities

SDG 12 – Responsible Consumption and Production

SDG 13 – Climate Action

## 10. Monitoring and Continuous Improvement

SPIHER ensures continuous improvement through:

- Event documentation
- Community feedback collection
- Annual sustainability reviews
- Research outcome tracking
- Partnership evaluations

## 11. Conclusion

SPIHER's efforts toward renewable energy go far beyond symbolic commitment. Through structured outreach, advanced research initiatives, and community leadership, the university actively accelerates the clean-energy transition.

The DST-funded solar project stands as a flagship initiative showcasing how research, policy, and public service can merge to build a sustainable future. By combining technological innovation with public engagement, SPIHER acts as a change maker in promoting renewable energy adoption and environmental responsibility.

The university continues to advance not only academic excellence but also community transformation through sustainable development.