JSPM's Bhivarabai Sawant Institute of Technology & Research, Wagholi, (412207) Pune

CRITERION 7 - INSTITUTIONAL VALUES AND BEST PRACTICES

7.1

Institutional Values and Social Responsibilities

7.1.2

The Institution has facilities for alternate sources of energy and energy conservation measures

FIRST YEAR ENGINEERING DEPARTMENT

Nagaraj Kalyanappa Timalapur

Digitally signed by Nagaraj Kalyanappa Timalapur
DN: CN = Nagaraj Kalyanappa Timalapur, C = IN, S = Maharashtra, O = JSPM'S Bhivarabai Sawant Institute of Technology & Research, OU = OTHERS
Reason: I attest to the accuracy and integrity of this document
Date: 2025.02.02 16:29:47 +05'30'

Poster Making Competition Report

NAME OF THE EVENT	"**Poster Making Competition** "
DATE	27th January 2023
TIME	10:45 am to 3 p.m.
HOST	Department of First Year Engineering of JSPM's BSIOTR,Wagholi,Pune.
TARGET AUDIENCE	FE faculties and First year engg. students
TOTAL ATTENDEES	334

Poster making Competition Objectives:

1. To create awareness about environment related issues and share information about it.
2. To acknowledge create aspects of student and trigger their thought process towards finding solution
3. To imbibe critical analysis and introspects on the issues .

PO attainment:PO3,PO7,PO12.

JSPMs Group of Institutes was established with a vision to satisfy the aspirations of youth force who want to lead nation towards prosperity through techno- economic development. So, keeping this vision in mind our Department of First Year Engineering organized "Poster Making Competition"on27th January 2023 at 10:45 am to 3 p.m. for awareness about environment related issues that is visually inclusive. The inauguration ceremony was auspiciously graced by Honorable Dr. T.K. Nagaraj (Principal, BSIOTR) along with Dr.Gayatri Bhandari(HOD Computer Dept.),Dr.Yogesh Angal(HOD E&TC Dept.),Dr.N.N. Ghuge (HOD,Electrical Dept.),Prof.Prabhuling Jatti(IQAC Head).

The competition was organized on following topics:

1. Local Polluted Site (Urban/Rural/Industrial/Agricultural)
2. Global Warming
3. Disaster Management (Natural disaster/Flood/Earthquake/Cyclones/Landslide)
4. Environment Assests / Environment Sustainability (River/Forest/Flora/Fauna)
5. Biodiversity
6. Environmental Impact Assessment

Hon. Mr.Rushiraj Sawant, Director, JSPM & TSSM Group of Institutes and Dr. S.V. Admane, Campus director JSPM Wagholi Campus has appreciated for successful conduction of this competition. Dr. T.K. Nagaraj, Principal BSIOTR, have supported us for this event. FE HoD and all faculties were present for this competition.

FE HOD
Dr. Swati Godse

Principal
Dr. T. K. Nagaraj

Co-ordinators

Prof. Priyanka Bhoyar
Prof. Dnyaneshwar Magar
Prof.Raviraj Kapure
Prof. Vivek Mohite

1.Dr.T.K. Nagaraj (Principal,BSIOTR) and All departments HOD's with Participants.

JAYAWANT SHIKSHAN PRASARAK MANDAL's
Bhivarabai Sawant Institute of Technology & Research
(Approved by AICTE, NEW Delhi, Govt. of Maha.& Affiliated to Pune university)
GAT.NO.720 (1), WAGHOLI, PUNE-NAGAR ROAD, PUNE-412207.
TEL.NO.(020)27051170 FAX.NO.(020)27052590

Department of First Year Engineering Science
Report On
"ENGINEER'S DAY"
on 15/09/2023

Name of The Programme	**1. Logo making Competition (Theme-FESA)** **2. Poster Making Competition (Theme-Respective Branch-wise)** **3. Best out of waste (Theme-Respective Branch-wise)**
Date	**15/09/2023 Friday**
Mode	**Offline**
Organizer	**Department of First Year Engineering Science of *Bhivarabai Sawant Institute of Technology & Research* Wagholi, Pune**
Programme Convenor	**Dr. Swati Godse, HOD (FE)**
Programme Coordinator	**Asst. Prof. Komal Dagwal (FE)** **Asst. Prof. Neha Holey (FE)** **Asst. Prof. Snehal Pachegaonkar (FE)** **Asst. Prof. Rani phulpagar (FE)**
Participants	**Div A - 27** **Div B - 54** **Div C - 34** **Div D -36** **Div E - 59** **Div F - 35** **Div G - 43** **Div H - 22**
Outcome	**1.Improvement in Technical knowledge and skills** **2.Improve presentationskills** **3.Students develope behaviors such as curiosity, initiative, and persistence that will help them engage with the world in productive ways**
Aligned PO	**PO 6 – Engineering and Society** **PO 7 - Environment and Sustainability** **PO9 - Individual and Team Work** **PO10-Communication** **PO12-Life-long Learning**

First Year Engineering Department , BSIOTR organized three competitions viz., Logo making Competition, Poster Making Competition and Best out from West on the occasion of ENGINEER'S DAY for the FE students, on Saturday 15/09/2023. Event inauguration function started at 2.30 pm , Inaugurated by Dr T. K. Nagaraj, Principal, BSIOTR in presence of Dr Swati Godse, Head of Department First Year Engineering Science. After inauguration all the judges observes all the logos, posters and models and ask questions to participants one by one. All the judges appreciated the efforts taken by all the participants. This competition help to Improve presentation power and technical knowledge of their respective branches.

Principal Sir and HOD mam motivated all the students for actively participate in all the events conducted by the department . The session ended with the vote of thanks on behalf of all the students. All the students along with the all the faculties attended the programme.


HAPPY

List of Participants attach here by

Sr.No.	Name of Participants	Sr.No.	Name of Participants
1	Samiksha Kawade	9	Girish Patil
2	Ankita Khot	10	Samruddhi Gorde
3	Tamanna Ghadse	11	Anurag Shinde
4	Akhilesh Shelke	12	Nikhil Padsare
5	Bhakti Tour	13	Kuldeep Mane
6	Maske Rushikesh	14	Abhijit Khaire
7	Atharv Ingale	15	Khushi Dhakate
8	Vaishnavi dange	16	Rushab jain

Name of Winners

Sr. No.	Division	Name of Participants
1	D (1411)	Girish Patil
2	D (1408)	Nikhil Padsare
3	E (1514)	Samruddhi Gorde

Report Prepared By:

Prof D.V.Magar

Prof Komal Dagwal

The programme ended with vote of thanks by HOD Dr. Swati Godse.

We are very much thankful to our institute management and department for the encouragement to conduct such event. Also thankful to "**AICTE SPICES BSIOTR MANTHAN CLUB"** for their continuous support and encouragement to conduct event under **MANTHAN**.

FE HOD
Dr. Swati Godse

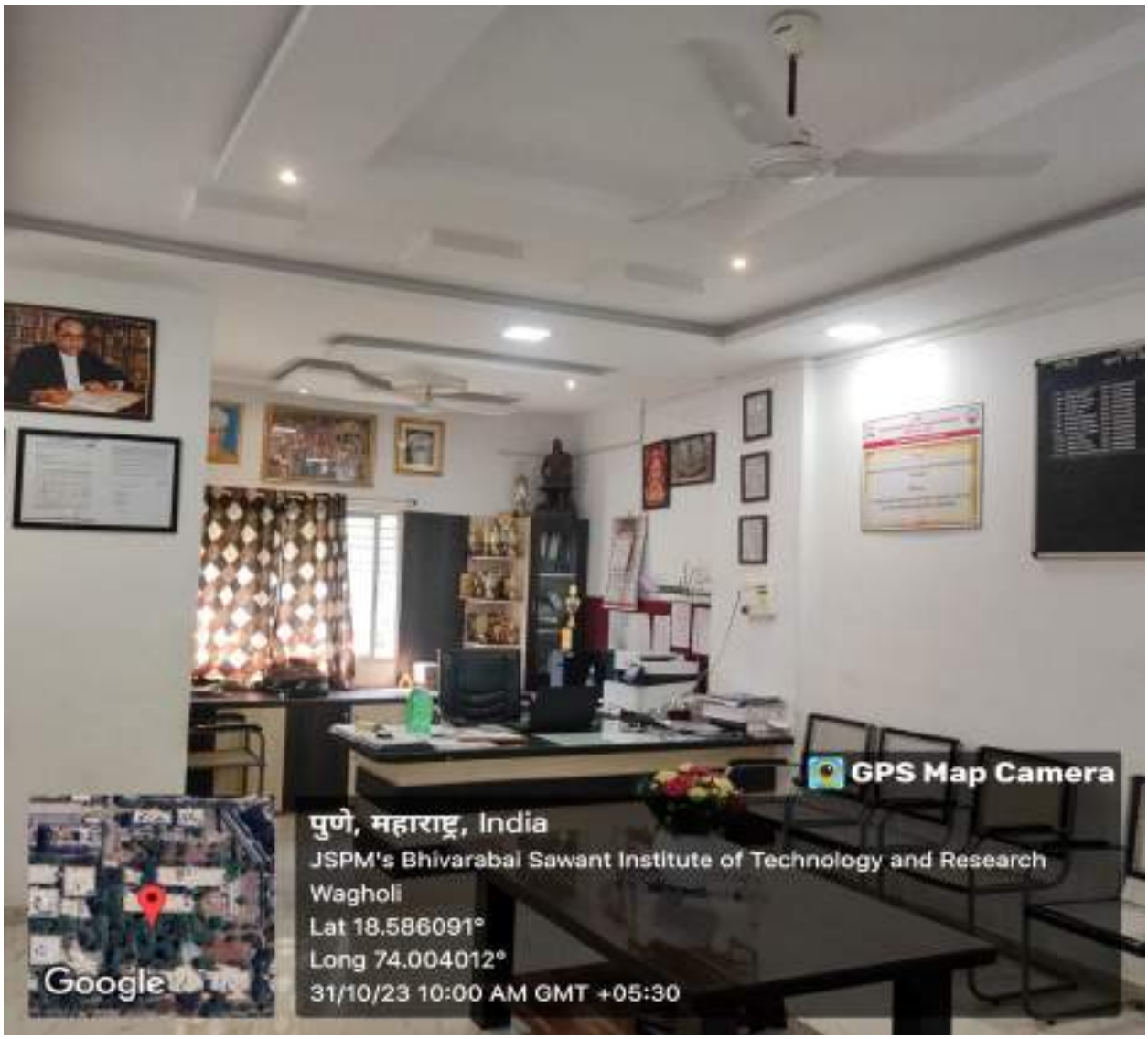
Principal
Dr. T. K. Nagaraj

DEPARTMENT OF ELECTRICAL ENGINEERING

Energy Conservation measures by Electrical Engineering Department

In the department of Electrical Engineering for HOD Cabin & Smart Board separate Offline 1 KW off grid Solar power system is installed. Three Solar plates of 350 Watt each are mounted on rooftop. Cable is connected to solar inverter and back up is taken from battery. This back up supports 5 , 20 Watt LED bulbs, 2 Ceiling fans, 2 PCs, 2 Laser Printers and one Laptop without any break.

Also supply is given to Smart board which is installed in Smart Classroom so that even in case of power failure uninterrupted teaching is in process. Solar system generates on an average 12-13 Units per day. In PV Mode Solar Voltage is 30.4 V , PV Current is 10.4 A. In UPS mode Battery Voltage is 30.4 V , Output Voltage is 217 V. In two years 2610.947 KWH energy is saved. Pay back period of this system is 4 years.




GPS Map Camera
Kesnand, Maharashtra, India
JSPM College Rd, Wagholi, Kesnand, Maharashtra 412207, India
Lat 18.586074°
Long 74.004064°
31/10/23 10:10 AM GMT +05:30
Google


GPS Map Camera
पुणे, महाराष्ट्र, India
JSPM's Bhivarabai Sawant Institute of Technology and Research
Wagholi
Lat 18.586091°
Long 74.004012°
31/10/23 09:59 AM GMT +05:30
Google

ENERGY CONSERVATION MEASURES :

1) “Switch Off Tube and Fans when not in use” such Instructions are displayed near switch boards.

2) Switching of Tubes which are located in corridor are controlled through a small circuit which is operated on the signal from motion sensor. In this circuit motion sensor detects presence of human being and switch on tube, as person disappears ie no motion is sensed by sensor supply of tube is disconnected.

3) **Lab Automation** : In computer Lab pair of Tube and Fan is controlled by one controller circuit. Lab is divided into four parts. If students or faculty is working in one part and there is no any student or faculty in other three parts then it's a wastage of electricity as all fans and tubes are ON. So sensor sense the motion of human being and switch on particular fan and tube & fan / tube from remaining sections are OFF. Also even if after completion of work student or faculty leave the lab without switching OFF fan and tube, these are automatically OFF after stipulated predefined period as there is no any motion.

4) **Remote Switching:** In this case a remote controlled Arduino circuit is incorporated in the circuit which controls the supply of Fan, Tube in the faculty cabin. Suppose faculty left his cabin when supply is cut off and he forget to switch off control switch, when supply is restore, Fan Tube will be switched ON. So in this case faculty can operate switches of Fan and Tube even from remote location through his mobile app and switch off the tube and fan.

JSPM's Bhivarabai Sawant Institute of Technology & Research, Wagholi, Pune (412207)

DEPARTMENT OF INFORMATION TECHNOLOGY ENGINEERING

Report on Computer Lab Automation through Motion Sensor Technology

Introduction: In an era where technological advancements are rapidly transforming our daily lives, integrating automation into various aspects of our surroundings becomes imperative. This report explores the implementation of computer lab automation through the utilization of motion sensor technology, specifically Passive Infrared (PIR) sensors, relays, and microcontrollers. The primary goal is to enhance energy efficiency by activating tube lights and fans based on detected motion within the lab.

Components Used:

1. **Passive Infrared (PIR) Sensor:**
   - PIR sensors detect infrared radiation emitted by objects in their field of view. These sensors are employed to capture the heat signatures of moving objects, such as individuals entering the computer lab.
2. **Relay:**
   - Relays serve as switching devices that control the power supply to the tube lights and fans. In this setup, relays act as intermediaries between the microcontroller and the electrical appliances, allowing for remote control.
3. **Microcontroller:**
   - A microcontroller, the brain of the system, processes signals from the PIR sensor and triggers the corresponding relays. Arduino or Raspberry Pi are common choices for this purpose due to their versatility and ease of programming.

Working Principle: The PIR sensor continuously monitors the computer lab for any movement. When a presence is detected, the sensor sends a signal to the microcontroller. The microcontroller, programmed to respond to these signals, activates the relays connected to the tube lights and fans. As a result, the lights and fans are turned on, creating a conducive environment for users. After a predefined period of inactivity, the microcontroller instructs the relays to switch off the lights and fans, contributing to energy conservation.

Advantages:

1. **Energy Efficiency:** The system ensures lights and fans are only operational when needed, reducing unnecessary energy consumption.
2. **Cost Savings:** By automating the control of electrical appliances, the institution can experience cost savings on electricity bills.
3. **User Comfort:** The automation provides a seamless and comfortable user experience by eliminating the need for manual control.

Challenges and Considerations:

1. **False Positives:** PIR sensors may occasionally trigger false positives due to factors like rapid temperature changes or the presence of small animals. Fine-tuning the sensitivity of the sensor can mitigate this issue.
2. **Maintenance:** Regular maintenance and monitoring are essential to address any technical glitches or component failures.
3. **Integration with Existing Systems:** Compatibility with existing infrastructure and systems within the computer lab should be ensured during the implementation phase.

Conclusion: The integration of motion sensor technology into computer lab environments offers a promising avenue for enhancing energy efficiency and user experience. By utilizing PIR sensors, relays, and microcontrollers, institutions can contribute to sustainable practices while providing a technologically advanced and user-friendly workspace. As technology continues to evolve, the automation of such spaces will likely become more commonplace, further optimizing resource utilization.

Dr. Praveen Barapatre
HOD

Images of Smart Laboratories

Dr. Praveen Barapatre
HOD

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

7.1.2 Initiatives Taken for Institutes for Alternate Sources of Energy and Energy Conservations Measures

Department of Electronics and Telecommunication Engineering

Sr. No.	Particulars	Cost(In Rs.)
1	Roof Top Solar System 10Kw Grid Connected Solar Power Plant, 32 Modules of 325wp(renewys), Structure HoT Dip galvanised with 86 Microns	6,50,000/-
2	To control the connected electrical appliances remotely to reduce energy wastage using IoT	1500

Dr. Y.S.Angal
H.O.D.(E&TC)

Dr. T. K. Nagaraj
Principal
PRINCIPAL
S.J.M.'S Bhivarabai Sawant Institute of Technology & Research
Wagholi, Pune- 412207

सावित्रीबाई फुले पुणे विद्यापीठ
(पूर्वीचे पुणे विद्यापीठ)

दूरध्वनी क्रमांक. :
०२०—२५६०१२६४
२५६०१२६५
ई—मेल: pldvp@unipune.ac.in

नियोजन व विकास विभाग,
गणेशखिंड, पुणे—४११००७.

संदर्भ : साफुपुवि/नियवि/63 दिनांक : ३०/०१/२०१९

प्रति,
मा. प्राचार्य/संचालक,
सर्व संबधित संलग्न महाविद्यालये/मान्यताप्राप्त परिसंस्था.

विषय: महाविद्यालय गुणवत्ता सुधार योजनेअंतर्गत विमर आदिवासी व आदिवासी विभागातील संलग्न महाविद्यालये/मान्यताप्राप्त परिसस्थाना शैक्षणिक वर्ष सन २०१८—१९ मध्ये सौर ऊर्जा उपकरण खरेदीसाठी अर्थसहाय्य मंजूरीबाबत.

महोदय/महोदया,

महाविद्यालय गुणवत्ता सुधार योजनेअंतर्गत विमर आदिवासी व आदिवासी विभागातील संलग्न महाविद्यालय/मान्यताप्राप्त परिसंस्था यांनी शैक्षणिक वर्ष सन २०१८—१९ मध्ये ऑनलाईन पध्दतीने सौर ऊर्जा उपकरणासाठी मार्गदर्शकतत्वांस अनुसरून प्रस्ताव सादर केलेले आहेत, अशा महाविद्यालयाना/परिसस्थांना त्यांच्या नावापुढे नमूद केलेल्या रकमेस सोबत जोडलेल्या मार्गदर्शकतत्वांस अनुसरून विद्यापीठ नियमाच्या अधिन राहून सोबत जोडलेल्या तक्त्यात नमूद केल्यानूसार त्रुटींची पूर्तता करण्याच्या अटीवर अर्थसहाय्य मंजूरी देण्यात येत आहे. अर्थसहाय्य मंजुरीची विद्यापीठ संकेतस्थळावरील यादी सोबत मंजूरी समजण्यात यावी. अर्थसहाय्य मंजूरीचे स्वतंत्र पत्र पाठविण्यात येणार नाहीत

आपल्या महाविद्यालय/परिसंस्थेस जरी वरीलप्रमाणे अर्थसहाय्य मंजूरी देण्यात आली असली तरी प्रत्यक्ष कार्यवाही पुढील बाबींची पूर्तता झाल्यानंतरच केली जाईल.

१. महाविद्यालये/परिसस्थेस सौर ऊर्जा उपकरणे बसविण्याकरिता सोबत जोडलेल्या मार्गदर्शकतत्वांचा त्यासोबतच्या नियमावलीचा अवलंब करून कार्यवाही करावी. (सोबत मार्गदर्शकतत्वे / नियमावली)

२. महाविद्यालय/परिसंस्थेस सौर ऊर्जा उपकरणे बसविण्याकरिता भेटी, प्रत्यक्ष पाहणी अहवाल पडताळणी इत्यादीसाठी रू ३,०००/— मा. बिल व वेतनाधिकारी, सावित्रीबाई फुले पुणे विद्यापीठ, पुणे—७ यांचे नावाने एम.एल.सी. कोड नं. ११०३७ (Charges for Proposal of Solar Energy Equipment) कोड नं. ९४ चलन नंबर ५४ चे ऑनलाईन जमा करणे आवश्यक आहे

३ सौर ऊर्जा उपकरणे बसविल्यानंतर महाविद्यालय/परिसस्थेने विद्यापीठाच्या आंतरशासन ऊर्जा प्रणाली विभागास सौर ऊर्जा उपकरणांची अंतिम पहाणी करण्याबाबत लेखी कळवावे त्या

३ सौर ऊर्जा उपकरणे बसविल्यानंतर महाविद्यालय/परिसंस्थेने विद्यापीठाच्या आंतरशास्त्र ऊर्जा प्रणाली विभागाला सौर ऊर्जा उपकरणांची अंतिम पहाणी करण्याबाबत लेखी कळवावे. त्या अनुषंगाने आंतरशास्त्र ऊर्जा प्रणाली विभागाकडून पुढील कार्यवाही सुरू होईल. यासाठी या व्यवस्थापक, आंतरशास्त्र ऊर्जा प्रणाली विभाग यांना दूरध्वनी क्रमांक ०२०—२५६०२३१५/२५६९५२९०, (१) डॉ. संदेश जाडकर — भ्रमणध्वनी क्रमांक ९७६५३६११२४, (२) डॉ. आदिनाथ फुटे — भ्रमणध्वनी क्रमांक ८२०८८३४६३३ वर संपर्क करावा. आंतरशास्त्र ऊर्जा प्रणाली विभागाकडून काम यशस्वीरित्या पूर्ण झाल्याचा अहवाल प्राप्त झाल्यानंतरच अंतिम अर्थसहाय्य रक्कम अदा करण्याबाबत विचार केला जाईल.

४ महाविद्यालये/परिसंस्थेस सौर ऊर्जा उपकरणे बसविण्याकरिता सोबत जोडलेल्या अधिकृत पुरवठादार यादीमधील पुरवठादाराकडून शासनाने खरेदी प्रक्रिये संदर्भात विहित केलेल्या नियमा प्रमाणे निविदा मंजूर करून त्याबाबत प्राचार्यांची संमती व शिफारस घेवून त्यानंतरच पुढील कार्यवाही करावी.

५ सोबत जोडलेल्या 'अ' 'ब' व 'क' श्रेणी मधील अधिकृत पुरवठादारांच्या यादीमधील मंजूर पुरवठादारांशीच संपर्क साधून सौर ऊर्जा उपकरणे बसविणे आवश्यक आहे. अधिकृत पुरवठादारांव्यतिरिक्त इतर पुरवठाधारकांकडून उपकरणे बसविल्यास इच्छल रक्कम व्याजासह विद्यापीठास परत करावी लागेल याची कृपया नोंद घ्यावी. (सोबत अधिकृत पुरवठादारांची यादी)

६. सौर ऊर्जा उपकरणे बसविण्याकरिता इच्छल रक्कम महाविद्यालये/परिसंस्थेच्या खात्यावर NEFT द्वारे अदा करण्यात येणार असल्याने महाविद्यालये/परिसंस्थेने विद्यापीठाच्या संकेतस्थळावर लॉगीन करून खालील नमूद केलेली माहिती ऑनलाईन पध्दतीने भरावी व त्याची हार्ड कॉपी व महाविद्यालये/ परिसंस्थेच्या बँक खात्याच्या धनादेशाची स्कॅन कॉपी त्यासोबत जोडून इच्छल रक्कम मागणी विनंती अर्ज व हमीपत्रासह (सोबत नमुना) नियोजन व विकास विभागामार्फत बिल व लेखा विभागास दोन प्रतीमध्ये सादर करावी त्यानंतर इच्छल रक्कम देण्याबाबतची कार्यवाही करण्यात येईल.

१. महाविद्यालये/परिसंस्थेचे नाव (महाविद्यालये/संस्थेच्या बँक पासबुकावरील नोंदीनुसार)
२. बँक खाते क्रमांक
३. बँक खात्याचा प्रकार . चालू / बचत
४. आयएफएससी कोड
५. बँकेच्या शाखेचे नाव

६ महाविद्यालये/परिसंस्थेची इमारत/जागा स्वतःची अथवा दीर्घ मुदतीच्या (किमान किमान २५ वर्षे) भाडेकरारावर आहे याबाबतचे हमीपत्र संबंधित महाविद्यालये/परिसंस्थेस संस्थेच्या सचिव किंवा अध्यक्ष व प्राचार्य/संचालक यांच्या संयुक्त स्वाक्षरीने सादर करावे लागेल.

७ ज्या महाविद्यालये/परिसंस्थेने बांधकामासाठी आर्थिक वर्ष २०१६—१७ पूर्वी इच्छल रक्कम घेतलेली आहेत आणि मार्गदर्शकतत्त्वांनुसार दोन वर्षात बांधकाम पूर्ण केलेले नसेल किंवा बांधकामपूर्णत्वाचे अंतिम हिशोब सादर केलेले नाहीत अशी सर्व महाविद्यालये/परिसंस्था सौर ऊर्जा उपकरणांच्या अर्थसहाय्यास अपात्र राहतील.

८ महाविद्यालये/परिसंस्थेने सादर केलेल्या प्रस्तावात नमूद केलेली माहिती खोटी/दिशाभूल करणारी असल्याचे निदर्शनास आल्यास अथवा मार्गदर्शकतत्त्वांचे तंतोतंत पालन न केल्यास

वरील अर्थसहाय्य रद्द करण्याचे अधिकार विद्यापीठ कार्यालयाकडे राखून ठेवण्यात आलेले आहेत.

९. यापूर्वी बांधकाम निर्धारकांतर्गत मंजूर केलेल्या बांधकामासाठी उपलब्ध रक्कम वेळेतही, बांधकामाचे अंतिम हिशेब आतापर्यंत सादर केलेले नसतील, अशा संबंधित महाविद्यालय/परिसंस्थेस सौर ऊर्जा उपकरणे खरेदीकरिता मंजुरी दिली जाणार नाही.

१०. सौर ऊर्जा उपकरणे खरेदीनंतरची सर्व जबाबदारी, उदा. देखभाल व दुरुस्ती इत्यादी संबंधित महाविद्यालये/संस्थेची राहील.

११. विद्यापीठ अधिकार मंडळाने वेळोवेळी केलेले निर्णय व नियमातील बदल सर्व संबंधित महाविद्यालय/परिसंस्थेवर बंधनकारक राहतील.

१२ ज्या महाविद्यालय/परिसंस्थांनी All India Survey of Higher Education (AISHE) सन २०१८–१९ ची माहिती अद्याप भरलेली नाही अशा महाविद्यालय/परिसंस्थांनी गुणवत्ता सुधार योजनेअंतर्गत अर्थसहाय्यासाठी सादर केलेल्या प्रस्तावाना उपरोक्त माहिती भरल्याचे ना–हरकत प्रमाणपत्र सादर केल्यानंतरच अर्थसाहाय्य इष्टांक रक्कम अदा करण्याबाबत विचार करण्यात येईल.

कळावे,

30/11/19
उपकुलसचिव
नियोजन व विकास विभाग

सोबत: वरीलप्रमाणे.

Financial Assistance Granted under QIP for Rooftop Solar System 2018-19

Sr. No.	Name & Address Of College/Inst.	Name Of Construction	Proposed Builtup Area	Previous Amount Sanctioned for Construction	Affiliated to UoP	Principal/ Director Approved/ Not Approved	Net Amount Required (Rs.)	Sanctioned Amount (Rs.)	Remarks
1	(CRS181209001) [CEDP012090] Abhinav Education Society's College of Education Addr: Ambegaon Tal: Haweli(excluding Corporation Area) Dist: Pune, Pincode: 411046	Construction of Rooftop Solar System	12500	500000.00	Yes	Yes-Permanent	708750.00	500000	OK
2	(CRS181316001) [IMMP013160] Institute of Management & Research. Addr: At Post Narhe Tal: Haweli(excluding Corporation Area) Dist: Pune, Pincode: 411041	Construction of Rooftop Solar System	6000	500000.00	Yes	Yes-Permanent	735000.00	500000	OK
3	(CRS181168006) [CAAP011680] DR D. Y. Patil Art's ,Commerce and Science College Addr: Sarve No 27Near Lokmanya HospitalNigdi Pradhikaran AkurdiPune Tal: Pimpari Chinchwad (corporation Area) Dist: Pune, Pincode: 411044	Hybrid Solar System	4275SQFT /7.5KVA	0.00	Yes	Yes-Permanent	720000.00	500000	OK

25	(CRS181273002) [IMMP012730] Kautilya Institute of Management and research Addr: Wagholi Pune Survey No 720-1 and 2 Tal: Haweli(excluding Corporation Area) Dist: Pune, Pincode: 412207	jspm kautilya Institute building top area	500 SQFT/9KVA	0.00	Yes	Yes-Permanent	500000.00	500000	OK
26	(CRS181349001) [CPHP013490] JSPM's Charak College of Pharmacy and Research Addr: Wagholi Pune Nagar Road Pune Tal: Haweli(excluding Corporation Area) Dist: Pune, Pincode: 412207	SOLAR SYSTEM	5000SQFT/9KVA	0.00	Yes	Yes-Permanent	500000.00	500000	OK
27	(CRS181258001) [CEGP012580] IMPERIAL COLLEGE OF ENGINEERING AND RESEARCH Addr: Pune Nagar Road Wagholi Pune Tal: Haweli(excluding Corporation Area) Dist: Pune, Pincode: 412207	Grid Tided	2000SQFT	0	Yes	Yes-Permanent	650000.00	500000	OK
28	(CRS181310001) [CEGP013100] Bhivarabai Sawant Institute of Technology and research Addr: Survey no 720 Pune Nagar road Tal: Haweli(excluding Corporation Area) Dist: Pune, Pincode: 412207	Agni Solar Systems Pvt. Ltd. 702 Onyx, North Main Road, Koregaon Park, Pune 411001, India	1100/10KVA	0.00	Yes	Yes-Permanent	600000.00	500000	OK

CRS181310001

Annexure-2

Savitribai Phule Pune University

Planning And Development

Applications for financial assistance for Construction of Rooftop Solar System during the financial year 2018-2019

1.(a)	Name of the College/ Institute	:	Bhivarabai Sawant Institute of Technology and research	
(b)	Address in Details	:	Survey no 720 Pune Nagar road Ta: Haweli(excluding Corporation Area) Dist: Pune Pincode: 412207	
(c)	Telephone No.	:	02067335108	
(d)	Email	:	principalbsiotr@gmail.com	
(e)	District	:	PUNE	
2.	Affiliated to Savitribai Phule Pune University	:	Yes	(Please attach Affiliation letter Copy)
3.	Name of the Principal/Director	:	Nagaraj Kalyanappa Timalapur	
	Mobile No:	:	9890678508	
	Principal/Director Approved?	:	Yes-Permanent	(If Yes , Please attach approval Copy)
4.	Whether accredited by NAAC/NBA	:		(If Yes, Please attach Copy)
5.	Whether AISHE DCF-II & M.I.S Information Uploaded :		Yes-C-42056-2017-2017	(If 'Yes', Please attach Copy)
6.	Annual Report Information Given to University (Pervious Academic Year 2017-18)	:	Yes	(If Yes, attach copy of acknowledgement)
7.	Last Year Q.I.P. Sanctioned Grant Utilized	:	Yes	(If 'No' Please attach Letter of Clarification)
8.	University All types of contribution i.e. Student Welfare Fund,Sports,AdmissionSection Prorata, Affiliation fee, etc. paid by college/Institutes	:	Yes	(If Yes, Please attach Copy)
9.	Is the College/Institute in Tribal Area?	:	No	(If 'Yes',Please attach Copy of Tribal area college certificate of concern authority)
10.	Proposed Rooftop Area (Sq.Ft)	:	1100/10KVA	
(a)	P V Type of system & kw	:	Grid-Tided	
(b)	Estimated Cost Rs.	:	800000.00	
(c)	Net amount required Rs.	:	600000.0000	
11.	Is the College declared fit to receive grants under section 12(B) of UGC Act.	:	No	(If Yes, Please attach Copy)
12.	Details of Pervious sanctioned grant by University for Construction/Civil work (Please attach Copy of Sanction Letter)			

Year of Sanction (Date & Letter No.)	Name of Construction	Amount
01/01/2000 00	NA	0.00

PRINCIPAL
S.P.M.'S Bhivarabai Sawant Institute of Technology & Research
Wagholi, Pune- 412207

Tuesday, August 21, 2018 1:27 PM

CRS181310001

Annexure-2

Savitribai Phule Pune University

Planning And Development

13.	Any other information	:	We proposed to develop solar System for B4 Building of our Institute. It should be useful for carrying out academic activities like Practicals and Lectures. It will be useful as non conventional Energy source. It will be helpful to reduce electricity consumption.	(annex separate sh

Signature & Seal of the
Secretary Of Institute/Society

Bharatiya Vidya Bhavan's Sardar Patel Institute Of Technology & Research BSIOTR Eff: 5311 Wagholi Wagholi, Pune-412207

21/8/18

Signature & Seal of
PRINCIPAL
S.P.M.'s Bharatiya Vidya Bhavan's Sardar Patel Institute of Technology & Research
Wagholi, Pune-412207

For Office Use Only :		2018-2019
प्राचार्य/ संचालकांचे मान्यतेचे पत्र		
वार्षिक अहवाल सादर केल्याची पोहोच प्रत		
संलग्नता/नुतनीकरण शुल्क जमा केल्याची बँकेच्या पावतीची प्रत (ऑक्टोबर 2018)		
विद्यार्थी कल्याण मंडळ, क्रीडा विभाग, शैक्षणिक प्रवेश विभाग येथे जमा केलेल्या शुल्क/निधीचा प्रोरेटा पोहोच प्रत (2018)		
जागा मालकी / भाडेकरार संबंधी कागदपत्रे		
Photograph before installation		
अन्डरटेकींग		
AISHE & M.I.S. प्रमाणपत्र		

Checked By _____

SAVITRIBAI PHULE PUNE UNIVERSITY
GaneshKhind,Pune-411 007

Applicant Copy

Print Time:21/Aug/2018 13:43:06

Challan No. : 18540002464

Bank Name : BANK OF MAHARASHTRA

Name of College and Challan Number:

Jayawant Shikshan Prasarak Mandal Bhivarabai Sawant Institute of Technology and research
Addr: Survey no 720 Pune Nagar road
Tal: Haweli(excluding Corporation Area) Dist: Pune,
Pincode: 412207 [18540002464]

Fee Type	Amount (Rs.)
Affiliation Visit Charges (111037)	5000.00

Total Amount : Rs. 5000.00

Rs.(In words) : **Five Thousand rupees only**

This receipt is valid subject to realization of the payment instrument.

CASH RECEIVED 31 AUG 2018

SUNRISERS
Energy Solutions Pvt. Ltd.

- Design
- Installation
- Commissioning
- Testing
- Maintenance
- Training

CIN-U74999MH2018PTC305760

UNDERTAKING OF 5 YEARS CMC

Date: 15/05/2019

To

Bhivarabai Sawant Institute of Technology & Research
Wagholi,Pune-412207.

Subject: - Regarding given undertaking of 5 years CMC to Grid Connected Roof-top System.

Dear Sir,

I the undersigned below M/s.Sunrisers Energy Solutions Pvt. Ltd. is registered as a Channel Partner / Open Category project developers with MEDA. I have installed Grid Connected Roof-top System at given premises. I have given undertaking for 5 years Comprehensive Maintenance Contract (CMC) for this Grid Connected Roof-top System.

- **Name of the Beneficiary: - JSPM'S Bhivarabai Sawant Institute of Technology & Research**
- **Address of the Beneficiary: - JSPM'S Bhivarabai Sawant Institute of Technology & Research Wagholi,Pune- 412207**
- **Capacity: -10 KW**

For ,
Sunrisers Energy Solutions Pvt. Ltd.

Sunrisers Energy Solutions Pvt. Ltd.

Off: 1212/B2, Seeta Apts, Apte Road, Pune - 411004.
info@sunrisersenergy.com | www.sunrisersenergy.com

SUNRISERS
Energy Solutions Pvt. Ltd

Letter of Warranty

Date 20/05/2019

Project: 10 KWp On-Grid Solar Power Plant.

Customer - Bhivarabai Sawant Institute of Technology & Research, Wagholi, 412 207
Address - Bhivarabai Sawant Institute of Technology & Research, Wagholi, 412 207

Dear Sir:

Please accept this letter as a written warranty for the work that we performed & Material Supplied at the above referenced project.

1. Solar Panels- Renesys Solar (325W)
   10 Years any Manufacturing defect.& 25 Years Linear Output performance.
2. Inverter- Delta (10KW)
   05 Years any manufacturing/performance defect.
3. ACDB/DCDB- 02 Years any manufacturing/performance defect.

Note- Project has been commissioned on 15/05/2019. So warranty period for all above items will be counted from this date only.

For,
Sunrisers Energy Solutions Pvt. Ltd.
1212, B/2, Seeta Appts, Apte Road
Shivajinagar, Pune- 411004.

Email- info@Sunrisersenergy.com
Mob- 7219504046

Mr. Bhaskar Karad.
Director

Sunrisers Energy Solutions Pvt. Ltd. PUNE

JAYAWANT SHIKSHAN PRASARAK MANDAL's
Bhivarabai Sawant Institute of Technology & Research
(Approved by AICTE New Delhi, DTE Mumbai & Affliated to Savitribai Phule Pune University)
Accredited with B++ Grade by NAAC
Gat No. 719/1 & 2, Wagholi, Pune-Nagar Road, Pune-412207
Ph : 020-067335108, 65217050, 67335100
Telefax : 020-67335100
Website : www.jspm.edu.in / www.bsiotr.org
EN 6311 / CEGP-013100

Prof. Dr. T. J. Sawant
B.E. (Elec.) PGDM, Ph.D
Founder Secretary

Dr. T.K. Nagaraj
ME. (Civil Engg), Ph.D (Civil Engg)
LMISTE, LMIGS, LMIRC
LMISRMTT, LMIE
Principal

Ref: JSPM/ BSIOTR/ CSIP/2020-21/ 14531

Date. 23/12/2020

हमीपत्र

या हमीपत्राव्दारे लिहून देतो / देते की . महाविद्यालयाने परिसंस्थेने सावित्रीबाई फुले पुणे विद्यापीठाव्यतिरिक्त सौर उर्जा उपकरणे बसविण्याकरिता अन्य कोणत्याही शासकीय / निमशासकीय / अशासकीय संस्था / संघटना / वित्तीय संस्था अथवा देणगीदारांकडून आर्थिक सहाय्य / अनुदान घेतलेले नाही, तसेच सदर उपकरणे बसविल्यानंतर कोणत्याही केंद्र / राज्य शासन स्तरावरील अनुदानांकरिता (सबसिडी) प्रस्ताव सादर केलेला नाही . अशाप्रकारे अनुदान / सबसिडी घेतल्यास महाविद्यालय / संस्था संबंधीची माहिती स्वतःहून विद्यापीठाला लेखी स्वरूपात सादर करील .

दिनांक . 23/12/2020

स्वाक्षरी प्राचार्य संचालक

PRINCIPAL
Jayawant Shikshan Prasarak Mandal's
Bhivarabai Sawant Institute of
Technology & Research
Wagholi, Pune-412207

Jayawant Shikshan Prasarak Mandal

(Regd.No: MAH/632/98/ Pune & Trust No. F/14907/98)

PROF. SHIVAJIRAO SAWANT
M.A.D.A.E.,D.D.
PRESIDENT

PROF. DR.TANAJI SAWANT
B.E.(Elect.), PGDM,Ph.D
FOUNDER SECRETARY

Regd. Off.: S. No. 80, Pune-Mumbai Bypass Highway, Tathawade, Pune-411033. Phone:(020)22933423,22934084.Fax: (020) 22933424
Corporate Office : "SAWANT CORNER", S.No. 84/2E1/5,3rd Floor,Katraj Chowk, New Pune - Mumbai By Pass Highway, Katraj, Pune - 46.
Phone : 020-24317383/84/85. www.jspm.edu.in

जा.क्र. JSPM/BSIOTR/2018-19/8656 दि.०५.०३.२०१९

हमीपत्र

या हमीपत्राद्वारे लिहून देतो की, भिवराबाई सावंत इंस्टिट्यूट ऑफ टेक्नॉलॉजी ॲंड रिसर्च, वाघोली, पुणे महाविद्यालयाने गुणवत्ता सुधार योजनेअंतर्गत सौर ऊर्जा उपकरणे बसविण्याकरिता सावित्रीबाई फुले पुणे विद्यापीठाव्यतिरिक्त अन्य कोणत्याही शासकीय/निमशासकिय/अशासकिय संस्था /संघटना,वित्तीय संस्था अथवा देणगीदारांकडून आर्थिक सहाय्य घेतलेले नाही व सौर सौर ऊर्जा उपकरणे बसविण्याकरिता असलेली जागा/इमारत ही संस्थेच्या/महाविद्यालयाच्या मालकीची आहे. तसेच महाविद्यालये/संस्थेने गुणवत्ता सुधार योजनेअंतर्गत आर्थिक वर्ष २०१६-१७ पूर्वी घेतलेल्या उचल रक्कमेअंतर्गत कोणतेही बांधकाम अपूर्ण नाही.

सचिव किंवा अध्यक्ष
स्वाक्षरी व सील
FOUNDER-SECRETARY
Jayawant Shikshan Prasarak Mandal
Tathawade, Pune - 411 033.

प्राचार्य/संचालक
स्वाक्षरी व सील
PRINCIPAL
J.S.P.M.'s Bhivrabai Sawant Institute of Technology & Research
Wagholi, Pune- 412207

PRINCIPAL
J.S.P.M.'S Bhivrabai Sawant Institute of Technology & Research
Wagholi, Pune- 412207

J.S.P.M.'s Bhivrabai Sawant Institute of Technology & Research
Gat No.720 (1&2), Pune-Nagar Road, Wagholi, 412207. Pune-412207

10 Kwp Grid Connected Solar PV Power Plant. Final Comparative Statement.

Sr. No.	Product Discription	Qty	GK Energy marketers pvt ltd	Sunrisers Energy Solutions Pvt. Ltd.	Harshal Enterprises
1	**10 Kwp Grid Connected Solar PV Power Plant.** Design , Supply , Erection and Commissioning Of A Roof Top Grid Tie Solar PV Power Generations Plant With Standard Length Of Wires. The Solar Power Will Consists Of Required No. Of SPV Panels, Inverter and with all the electrical items suitable to designed installed capacity	1	680000	615500	640000
	TOTAL		680000	615500	640000
	5% GST On Material		23800	28900	32000
	18%GST On Installation & Labour Work		36720	5600	
	Grand Total		740520	650000	672000
	Other Terms & Condition				
	Delivery & Installation		includes in total cost		
	Warranty		Solar PV Modules 10 yrs PV Inverter 5 years		
	Operation & Maintenance		2 years free maintenance after 2 years AMC will be signed.		
	Services		yearly 3 times visit for flushing all & emergency call should be attend		
	Payment Terms		70% adv with PO 30% immediately after completion of work.	50% adv with PO 50% after completion & satisfaction report of the work.	50% adv with PO 50% against performa invoice .

Founder Secretary JSPM

PRINCIPAL

Wagholi, Pune- 412207

BSIOTR 2019-20

GUT NO.720, PUNE-NAGR ROAD, WAGHOLI, PUNE-

Sunrisers Energy Solutions Pvt.Ltd.

Ledger Account

1-Apr-2019 to 31-Mar-2020

Date	Particulars	Vch Type	Vch No.	Debit	Credit
1-4-2019 Cr	**Opening Balance**			**3,25,000.00**	
14-6-2019 Dr	**Roof Top Solar System**	**Journal**	Bill No-SES/GT/319		6,50,000.00
	Being purchase of 10kwp on Grid Rooftop solar system (E & TC Yogesh Angal)				
2-12-2019 Cr	**PNB-0386002111027614**	**Payment**	Che No-493676	3,25,000.00	
	Being payment for PO 1316 dt.08.02.2019 Purchase of On Grid Roof Top Solar PV System Bill No-SES/GT/319 dt.14.06.2019 Against Corporate Office Through Payment				
	Installed on 0-1 Building			**6,50,000.00**	**6,50,000.00**

SUNRISERS
Energy Solutions Pvt. Ltd.

Tax Invoice

1212, B/2, Seeta Apartments,
Opposite Hotel Moneta, Apte Rd, Pune-04
Phone: +91 7219504046
Office: 020 25532924
Prepared by: Mr. Balasaheb Karad
Email: info@sunrisersenergy.com

Date:	14-06-19
Invoice No:	SES/GT/319

Customer

JSPM'S BSIOTR
Mr. Anil Bhosale
Add : Wagholi, Pune
Mob. +91 9850818480
Email : anil.bhosale72@gmail.com

PO Date 08-02-19

DESCRIPTION	QTY	RATE		AMOUNT	
Supply of 10 KW Solar Power Plant	1	619,047.6		619047.60	
Panel - 325Wp Renewsys	31				
Inverter DELTA 10 KW	1				
			Subtotal	619,048	

Bank A/C Details:

GSTN :27AAXCS4814N1ZG
PAN : AAXCS4814N
Bank Name : ICICI Bank, Ghole Rd Branch, pune
A/C Type : CA
A/C No : 003905020605
IFSC Code : ICIC0000039

SGST 2.5%	15,476
CGST 2.5%	15,476
Total	650,000

"I/We hereby certify that my/our registration certificate under the Maharashtra value Added Tax act 2002, is in force on the date on which the sale of goods speacified in this tax invoice is made by me/us and that the transaction of sales coverd by this tax invoice hasbeen effected by me/us and it shall be accountedin the turnover of sales while filling or turn and the due tax, if any payble on the sale has been paid or shall be paid"

Thank You

Sunrisers Energy Solutions Pvt. Ltd. PUNE-04

Work Completion Report

Site: - JSPM's BSIOTR **Date: - 03/04/2019**

Customer Name: - JSPM Group of Institutes
Mr. Anil Bhosale.

This is to certify that **10 KW** Grid Connected Solar power plant , as per the MNRE Standards has been installed, commissioned and tested successfully by **Sunrisers Energy Solution Pvt. Ltd.** On 01/04/2019 at "JSPM's Bhivarabai Sawant Institute Of Technology & Research",Wagholi,Pune.

System Details-

01	Size	10 KW
02	Capacity of Inverter	10 KW (DELTA)
03	Solar Modules	31 Modules of 325Wp (Renewsys)
04	Structure	Hot-dip Galvanized with 86 microns

Note:-

For,
Sunrisers Energy Solution Pvt.Ltd.
Name & Signature of Site Engineer
Ashok. Gaikwad

Name & Signature of Principal/Director
PRINCIPAL
J.S.P.M.'s Bhivarabai Sawant Institute of Technology & Research
Wagholi, Pune-412207

Sunrisers Energy Solutions Pvt. Ltd. PUNE-03

Unit No.729 (1&2), Pune-Nagar Road, Wagholi, 412207.

SUNRISERS
Energy Solutions Pvt. Ltd.

- Design
- Installation
- Commissioning
- Testing
- Maintenance
- Training

CIN - U74999PN2016PTC165760

Date: 28/11/19

RECEIPT

This is to acknowledge the receipt of full / advance Payment from BSJOTR

_____ against PO Number 3016 Dated 08/02/19 Received by Cheque/

Cash amount of Rs. 325000 (In words Three Lacs twenty five thousand)

Bank Name PNB Branch Ch.No. 493676 Date 28/11/2019

Thanking You.

Authorised Signatory.

Sunrisers Energy Solutions Pvt. Ltd.

Off: 1212/B2, Seeta Apts. Apte Road, Pune - 411004.
info@sunrisersenergy.com | www.sunrisersenergy.com

SUNRISERS
Energy Solutions Pvt. Ltd.

- Design
- Installation
- Commissioning
- Testing
- Maintenance
- Training

CIN - U74999PN2016PTC165760

Date:- 09/02/2019

Reciept

This is to acknowledge the receipt of full/Advance Payment from BSTOTR against PO Number 316 dated 08/2/19. received by Cheque / Cash amount of Rs. 325000 (words Three Lakh twenty five thousand only) Bank Name PNB Branch. Ch. No. 493662 Date 09/02/19

Thanking you.

Authorised Signatory.

Sunrisers Energy Solutions Pvt. Ltd. PUNE-04

Off: 1212/B2, Seeta Apts, Apte Road, Pune - 411004.
info@sunrisersenergy.com | www.sunrisersenergy.com

Work Completion Report

Site: - JSPM's BSIOTR **Date: - 03/04/2019**

Customer Name: - JSPM Group of Institutes
Mr. Anil Bhosale.

This is to certify that **10 KW** Grid Connected Solar power plant , as per the MNRE Standards has been installed, commissioned and tested successfully by **Sunrisers Energy Solution Pvt. Ltd.** On 01/04/2019 at **"JSPM's Bhivarabai Sawant Institute Of Technology & Research"**,Wagholi,Pune.

System Details-

01	Size	10 KW
02	Capacity of Inverter	10 KW (DELTA)
03	Solar Modules	31 Modules of 325Wp (Renewsys)
04	Structure	Hot-dip Galvanized with 86 microns

Note:-

For,
Sunrisers Energy Solution Pvt.Ltd.
Name & Signature of Site Engineer
Ashok. Gaikwad

Name & Signature of Principal/Director
JSPM's BSIOTR

Utilization Certificate

Certified that the grant of Rs.**800,000** (Rupees **Eight Lakh Only**) has been sanctioned to **Jayawant Shikshan Prasarak Mandal Bhivarabai Sawant Institute of Technology and research Addr: Survey no 720 Pune Nagar road Ta: Haweli(excluding Corporation Area) Dist: Pune** by the Savitribai Phule Pune University towards following proposals An expenditure of Rs.**963,378** (Rupees **Nine Lakh Sixty Three Thousand Three Hundred Seventy Eight And Forty Paisa Only**) has been incurred for the purpose for which it was sanctioned and in accordance with the terms and conditions as laid down by the University. If as a result of check or audit objection, some irregularity is noticed at a later stage, action will be taken to refund, adjust or regularize the objected amount.

S. No.	Application ID	Proposal Name	Sanction Amount	Total Expenditure
1	CRS181310001	Purchase of Rooftop Solar System	500,000	650,000
2	EQP191310001	Purchase of Lab and Educational Equipments	100,000	138,060
3	PSE191310002	Purchase of Sports Equipment	100,000	134,512
4	SCW191310003	Organizing Seminar/Conference/Workshop (State)	100,000	40,806
		Total	**800,000**	**963,378**

Name, Signature & Seal of
Principal / Director

Jayawant Shikshan Prasarak Mandal's
Bhivarabai Sawant Institute of
Technology & Research
Wagholi, Pune-412207

Date :-

Place:-

For P. C. PATIL & ASSOCIATES
Chartered Accountants

Chartered Accountant
Sign., Seal & Regn No.

Partner
CA YUVRAJ BHANDARE
M. No. 130266

UDIN :- 20130266AAAAMS7095

Savitribai Phule Pune University
School of Energy Studies
Final Inspection Report of Solar PV system installed under QIP of SPPU

1.	Name of the College	:	JSPM's Bhivarabai Sawant Institute of Technology & Reseach
2.	Name of the Principal / Director and contact details	:	Director- Dr. T. K. Nagraj Contact- 9922914761
3.	University's Sanction details (Enclose copy)	:	Attached
4.	Prefeasibility Report details (Enclose copy)	:	Attached
5.	Commissioning Date	:	15 June 2019
6.	Type of the System (Off-grid/hybrid/gid-tie)	:	Grid-Tie
7.	Whether net metering availed	:	NA
8.	Capacity (in KWp)	:	10 KW
9.	Total Sanction load of the college (in KW)	:	380 KW
10.	Details of Remote monitoring System: Web address, user id and password	:	Web-http://www.injectsolar.com/live/index.html USER NAME: JSPM_BSIOTR PASSWORD: JSPM_BSIOTR
11.	Details of the vendor (Address, email & contact no.)	:	**Sunrisers Energy Solutions Pvt. Ltd.** Add- 1212,B/2, Seeta Appts, Apte Road, Shivajinagar, Pune-411004 Mr. Balasaheb Karad Mob-7219504046 Email- info@sunrisersenergy.com
12.	Photographs of the system (Attach photographs)	:	Attached
13	First installment release status	:	Received/ ~~Not received~~ Amount Received: 2,50,000/- Date of receipt: 8/3/2019

उर्जा अभ्यास प्रणाला
सावित्रीबाई फुले पुणे विद्यापीठ

Received by
20/3/2019

Sr. No.	Components	Standard Specification as per Work Order	Observation/ Remarks
1	Solar PV modules	The Modules shall contain (Solar PV) Crystalline Silicon Solar Cell Modules and they must be IEC 61215 / IS 14286 standard.	Ok
		No. of Module (in Nos.)	31
		SPV Module Capacity (in Wp)	325
		Project Capacity (in KW)	10 KW
		RFID Tag	
		Purchase Order of SPV modules (checking indigenous SPV modules).	
	Module Mounting structure	Hot dip galvanized MS mounting structures may be used for mounting the modules / panels / arrays. Minimum thickness of galvanization should be at least 80 microns.	Provided
		It shall withstand the wind speed of respective wind zone (wind speed of 150 kM/ hour). Mounting structure steel shall be as per latest IS 2062: 1992 and galvanization of the mounting structure shall be in compliance of latest IS 4759. (as per EoI specifications)	Provided
	Junction Boxes	• The junction boxes shall be made of GRP / FRP / Powder Coated Aluminum /cast aluminum alloy with full dust, water and vermin proof.	Provided
		• The JBs shall be such that input & output termination can be made through suitable cable glands. All wires / cables must be terminated through cable lugs.	Provided
		• Copper bus bars / terminal blocks housed in the junction box with suitable termination threads Conforming to IP65 standard and IEC 62208 Hinged door with EPDM rubber gasket to prevent water entry. Provision of earthings • Each Junction Box shall have High quality Suitable capacity Metal Oxide Varistors (MOVs) / SPDs, suitable Reverse Blocking Diodes.	Provided
		• Make of JB:	Energica/ABB

	DC DISTRIBUTION BOARD	• It shall have sheet from enclosure of dust & vermin proof conform to IP 65 protection	Provided
	Battery Bank (If Any).	• The cells must be as per IEC Standard & MNRE approved. • Make:	Capacity: Voltage-.....V Amp-.....Ah No. of Batteries:
	MNRE approved Charge Controller unit (If Any)	• Capacity: Voltage.....V Amp .....Ah	NA
	MNRE approved Grid Tie Inverter Make: Delta Model: RPI M10A Sr. No: 01M1940033 73WJ	• **Nominal Capacity:** ...10 KW • **Input Voltage** 100A V DC Nominal, The voltage variation shall be as per change in array output, • **Output Voltage** 440 V, 50 Hz, 1φ, **Regulation:** From minimum to maximum voltage 1%, **Output Frequency:** 50 Hz, + 0.5 Hz, 200% for 30 Second, **Efficiency**: 80% at 50% of load and More than 90% at full load 0.8 PF. • Protection against Islanding of grid as per IEEE 1547/UL 1741/ IEC 62116 or equivalent BIS standard.	Capacity 10 KW Make- Delta.
	AC Distribution Panel Board	• All switches and the circuit breakers, connectors should conform to IEC 60947, part I, II and III/ IS 60947 part I, II and III. • AC Distribution Panel Board should have necessary surge arrestors.	Provided
		• Cables must properly align and insulated.	Provided
	Danger Notice Plates for system having capacity 10KW or above.	• Danger boards should be provided as and where necessary as per IE Act. /IE rules as amended up to date. • The inscriptions shall be in local language, Hindi and English.	Provided
	Earthing Systems.	• The Earthing system for array and distribution system & SPV Power Plant • Each array structure of the PV yard should be grounded/ earthed properly as per IS:30431987	Provided
	Tools kit (for system having capacity 10KW or above)	• Necessary tools kit is to be provided along with the each Power Plant for any routine maintenance or immediate repair	Provided

	Training, Operation Manual & Display Board	• Training to the user for operation and maintenance of the system.	Provided
		• Supply of manual for Operation and Maintenance in two languages i.e. in English and in Marathi to Beneficiary.	Provided
		• Display Board of size 3 ft x 3 ft which gives detailed circuit diagram of the system with its description.	Provided
	Net Meter	• Details of net meter and Date of commissioning. (Get the details of release order from utility with details of meter.)	NA
	Lightening arrester	Lightning protection should be provided as per IEC 62305 standards.	Provided
	Comprehensive Maintenance Contract (CMC)	Yes	Provided for 5 Years
	Exact Geographic coordinates of the site.	Longitude: Latitude: Latitude N18°35'18.52872" Longitude E74°0'10.872"	

The above system is installed, commissioned and found working satisfactory during the inspection and it is handed over to the beneficiary/user agency.

Signature of the Principal/Director	Signature of the Vendor/ Supplier
Name: Dr. T. K. Nagraj	Name: Sunrisers Energy Solutions Pvt Ltd
Contact number: 9922914761	Mr. Balasaheb Karad
Date:	Contact number: 7219504046
PRINCIPAL J.S.P.M.'S Bhivarabai Sawant Institute of Technology & Research Wagholi, Pune- 412207	Date:

Gat No.729 (P), Pune-Nagar Road, Wagholi, 412207.

Remark: Recommended for release of second instalment

Signature of Authority
School of Energy Studies, SPPU

JSPM's
Bhivarabai Sawant Institute of Technology and Research,
Wagholi, Pune

Sr. No	Particulars of Equipment	Name of The Supplier	Bill No.& Date	Amt in Rs.
1.	Supply of 10kWp On –Grid Rooftop Solar System	**Sunrisers Energy Solutions Pvt.Ltd.** Add-1212,B/2,Seeta Appts,Apte Road,Shivajinagar,Pune-411004 Mr.Balasaheb Karad Mob-7219504046 Email-info@sunrisersenergy.com	Bill No. SES/GT/319. Date: 14/06/2019 PO No. JSPM/BSIOTR/PO/13016/2019	6,50,000/-

Dr. YOGESH S.ANGAL
Name & Signature of Co-Ordinator

Dr.T.K.NAGARAJ
Name, Signature & Seal of
Principal/ Director
PRINCIPAL
J.S.P.M.'S Bhivarabai Sawant Institute of
Technology & Research
Wagholi, Pune- 412207

Chartered Accountant
Sign.,Seal & Regn.No.

For P. C. PATIL & ASSOCIATES
Chartered Accountants
Partner
CA YUVRAJ BHANDARE
M. No. 130266

SUNRISERS
Energy Solutions Pvt. Ltd.

• Design • Testing
• Installation • Maintenance
• Commissioning • Training

CIN - U74999PN2016PTC165760

Work Completion Report

Date: - 03/04/2019

Site: - JSPM's BSIOTR

Customer Name: - JSPM Group of Institutes
Mr. Anil Bhosale.

This is to certify that **10 KW** Grid Connected Solar power plant , as per the MNRE Standards has been installed, commissioned and tested successfully by **Sunrisers Energy Solution Pvt. Ltd.** On 01/04/2019 at **"JSPM's Bhivarabai Sawant Institute Of Technology & Research"**,Wagholi,Pune.

System Details-

01	Size	10 KW
02	Capacity of Inverter	10 KW (DELTA)
03	Solar Modules	31 Modules of 325Wp (Renewsys)
04	Structure	Hot-dip Galvanized with 86 microns

Note:-

For,
Sunrisers Energy Solution Pvt.Ltd.
Name & Signature of Site Engineer
Ashok. Gaikwad

Name & Signature of Principal/Director
JSPM's BSIOTR

Sunrisers Energy Solutions Pvt. Ltd. PUNE-04

J.S.P.M.'s Bhivarabai Sawant Institute of Technology & Research Plot No.720 (1&2), Pune-Nagar Road, Wagholi, 412207. Pune-412207

PRINCIPAL
J.S.P.M.'s Bhivarabai Sawant Institute of Technology & Research
Wagholi, Pune-412207

JSPM'S BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY AND RESEARCH, WAGHOLI, PUNE -412207

Photographs of Construction and Installation of Rooftop Solar Systems

Photo 1: Solar Panel Installed

Photo 2: Solar Panel Installed with Project Coordinator-Dr.Yogesh S. Angal(HOD(E&TC))

JSPM'S BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY AND RESEARCH, WAGHOLI, PUNE -412207

Photographs of Construction and Installation of Rooftop Solar Systems

Photo 3- Solar Panel Details Installed

JSPM'S BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY AND RESEARCH, WAGHOLI, PUNE -412207

Photographs of Construction and Installation of Rooftop Solar Systems

Photo 3- Solar Panel Details Installed with Project Coordinator Dr.Y. S. Angal (HOD (E&TC))

Solar Panel Control and Monitoring Panel

Titile of the Project	**RoofTop Solar System**
Cost of Project	Rs.6,50,000/-
Sanctioned Amount	Rs.5,00,000/-
Funding Agency	QIP, Planning and Development Savitribai Phule Pune University
Sanction Details	Letter No. SPPU/NVV/63 dated 30/01/2019
Specifications	
Type of System	Grid-Tie
Capacity(in KWP)	10KW
MNRE approved Grid Tie Inverter	Make: Delta
Solar PV Module	31 Qty
Structure	Ms Hot Dip Galvanized
Remote Monitoring System	Included
Inverter	Delta
Details of Vendor	
Sunrises Energy Solutions Pvt Ltd, Pune	
Principal Investigator	Dr.Yogesh S. Angal HOD(E&TC)

JSPM'S BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY AND RESEARCH, WAGHOLI, PUNE -412207

Photographs of Construction and Installation of Rooftop Solar Systems

	PRINCIPAL Bhivarabai Sawant Institute of Technology & Research Wagholi, Pune-412207 Dr. T. K. Nagaraj

PN-28 P3/2018-19

ANNEXURE 3

Savitribai Phule Pune University
School of Energy Studies
Final Inspection Report of Solar PV system installed under QIP of SPPU

1.	Name of the College	:	JSPM's Bhivarabai Sawant Institute of Technology & Reseach
2.	Name of the Principal / Director and contact details	:	Director- Dr. T. K. Nagraj Contact- 9922914761
3.	University's Sanction details (Enclose copy)	:	Attached
4.	Prefeasibility Report details (Enclose copy)	:	Attached
5.	Commissioning Date	:	15 June 2019
6.	Type of the System (Off-grid/hybrid/gid-tie)	:	Grid-Tie
7.	Whether net metering availed	:	NA
8.	Capacity (in KWp)	:	10 KW
9.	Total Sanction load of the college (in KW)	:	380 KW
10.	Details of Remote monitoring System: Web address, user id and password	:	Web-http://www.injectsolar.com/live/index.html USER NAME: JSPM_BSIOTR PASSWORD: JSPM_BSIOTR
11.	Details of the vendor (Address, email & contact no.)	:	**Sunrisers Energy Solutions Pvt. Ltd.** Add- 1212,B/2, Seeta Appts, Apte Road, Shivajinagar, Pune-411004 Mr. Balasaheb Karad Mob-7219504046 Email- info@sunrisersenergy.com
12.	Photographs of the system (Attach photographs)	:	Attached
13	First installment release status	:	Received/ ~~Notreceived~~ Amount Received: 2,50,000/- Date of receipt: 8/3/2019

Sr. No.	Components	Standard Specification as per Work Order	Observation/ Remarks
1	Solar PV modules	The Modules shall contain (Solar PV) Crystalline Silicon Solar Cell Modules and they must be IEC 61215 / IS 14286 standard.	Ok
		No. of Module (in Nos.)	31
		SPV Module Capacity (in Wp)	325
		Project Capacity (in KW)	10 KW
		RFID Tag	
		Purchase Order of SPV modules (checking indigenous SPV modules).	
	Module Mounting structure	Hot dip galvanized MS mounting structures may be used for mounting the modules / panels / arrays. Minimum thickness of galvanization should be at least 80 microns.	Provided
		It shall withstand the wind speed of respective wind zone (wind speed of 150 kM/ hour). Mounting structure steel shall be as per latest IS 2062: 1992 and galvanization of the mounting structure shall be in compliance of latest IS 4759. (as per EoI specifications)	Provided
	Junction Boxes	• The junction boxes shall be made of GRP / FRP / Powder Coated Aluminum /cast aluminum alloy with full dust, water and vermin proof.	Provided
		• The JBs shall be such that input & output termination can be made through suitable cable glands. All wires / cables must be terminated through cable lugs.	Provided
		• Copper bus bars / terminal blocks housed in the junction box with suitable termination threads Conforming to IP65 standard and IEC 62208 Hinged door with EPDM rubber gasket to prevent water entry. Provision of earthings • Each Junction Box shall have High quality Suitable capacity Metal Oxide Varistors (MOVs) / SPDs, suitable Reverse Blocking Diodes.	Provided
		• Make of JB:	Energica/ABB

	DC DISTRIBUTION BOARD	• It shall have sheet from enclosure of dust & vermin proof conform to IP 65 protection	Provided
	Battery Bank (If Any).	• The cells must be as per IEC Standard & MNRE approved. • Make:	Capacity: Voltage-............V Amp-..............Ah No. of Batteries:
	MNRE approved Charge Controller unit (If Any)	• Capacity: Voltage.................V Amp ....Ah	NA
	MNRE approved Grid Tie Inverter Make: Delta Model: RPI M10A Sr. No: 0IM19403 13WJ	• **Nominal Capacity:** ...10 KW... • **Input Voltage** 1000 V DC Nominal, The voltage variation shall be as per change in array output, • **Output Voltage** 440 V, 50 Hz, 1φ, **Regulation:** From minimum to maximum voltage 1%, **Output Frequency:** 50 Hz, + 0.5 Hz, 200% for 30 Second, **Efficiency**: 80% at 50% of load and More than 90% at full load 0.8 PF. • Protection against Islanding of grid as per IEEE 1547/UL 1741/ IEC 62116 or equivalent BIS standard.	Capacity 10 KW Make- Delta.
	AC Distribution Panel Board	• All switches and the circuit breakers, connectors should conform to IEC 60947, part I, II and III/ IS 60947 part I, II and III. • AC Distribution Panel Board should have necessary surge arrestors.	Provided
		• Cables must properly align and insulated.	Provided
	Danger Notice Plates for system having capacity 10KW or above.	• Danger boards should be provided as and where necessary as per IE Act. /IE rules as amended up to date. • The inscriptions shall be in local language, Hindi and English.	Provided
	Earthing Systems.	• The Earthing system for array and distribution system & SPV Power Plant • Each array structure of the PV yard should be grounded/ earthed properly as per IS:30431987	Provided
	Tools kit (for system having capacity 10KW or above)	• Necessary tools kit is to be provided along with the each Power Plant for any routine maintenance or immediate repair	Provided

	Training, Operation Manual & Display Board	• Training to the user for operation and maintenance of the system.	Provided
		• Supply of manual for Operation and Maintenance in two languages i.e. in English and in Marathi to Beneficiary.	Provided
		• Display Board of size 3 ft x 3 ft which gives detailed circuit diagram of the system with its description.	Provided
	Net Meter	• Details of net meter and Date of commissioning (Get the details of release order from utility with details of meter.)	NA
	Lightening arrester	Lightning protection should be provided as per IEC 62305 standards.	Provided
	Comprehensive Maintenance Contract (CMC)	Yes	Provided for 5 Years
	Exact Geographic coordinates of the site.	Longitude: Latitude: Latitude N18°35'18.52872" longitude E74°0'10.872"	

The above system is installed, commissioned and found working satisfactory during the inspection and it is handed over to the beneficiary/user agency.

Signature of the Principal/Director	Signature of the Vendor/ Supplier
Name: Dr. T. K. Nagraj	Name: Sunrisers Energy Solutions Pvt Ltd
Contact number: 9922914761	Mr. Balasaheb Karad
Date:	Contact number: 7219504046
PRINCIPAL J.S.P.M.'S Bhivarabai Sawant Institute of Technology & Research Wagholi, Pune, 412207	Date: SUNRISERS ENERGY SOLUTIONS PVT. LTD.

Remark: Recommended for release of second installment

Recommended for [illegible] of payment.

for [illegible] Assistant Professor

Signature of Authority

School of Energy Studies, SPPU

School of Energy Studies
Savitribai Phule Pune University
Pune - 411 007

SAVITRIBAI PHULE PUNE UNIVERSITY
GaneshKhind,Pune-411 007

Applicant Copy

Print Time:21/Aug/2018 13:43:06

Challan No. : 18540002464

Bank Name : BANK OF MAHARASHTRA

Name of College and Challan Number:

Jayawant Shikshan Prasarak Mandal Bhivarabai Sawant Institute of Technology and research
Addr: Survey no 720 Pune Nagar road
Tal: Haweli(excluding Corporation Area) Dist: Pune,
Pincode: 412207 [18540002464]

Fee Type	Amount (Rs.)
Affiliation Visit Charges (111037)	5000.00

Total Amount : Rs. 5000.00

Rs.(In words) : **Five Thousand rupees only**

This receipt is valid subject to realization of the payment instrument.

CASH RECEIVED 31 AUG 2018

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

7.1.2 Energy conservation initiative 2022-23

Students of Second Year of Electronics and Telecommunication Engineering has implemented a room automation project in the view of conserving energy.

The project titled "**IoT Based Automatic room control using Ardunio**" has been completed and successfully installed in Software and Research Lab.

Objective of project:

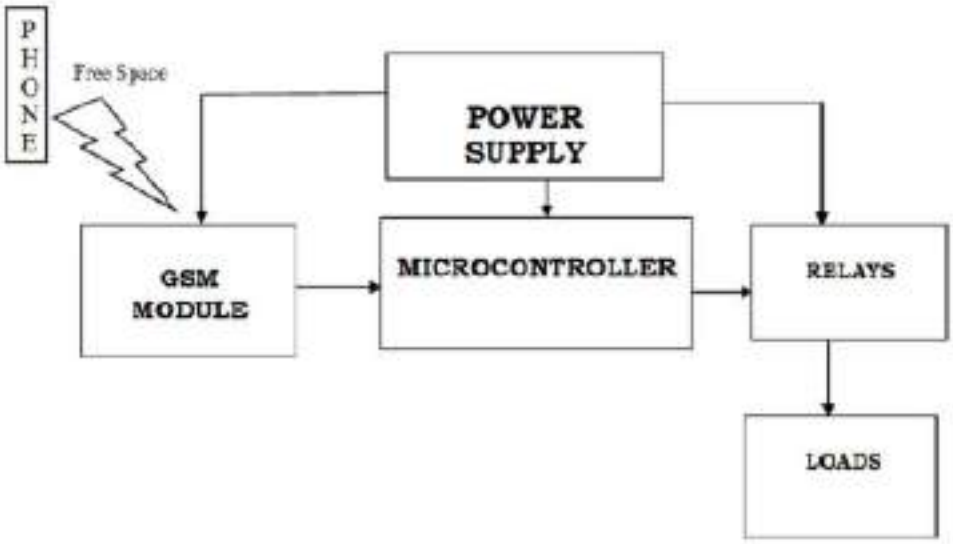
To control the connected electrical appliances remotely to reduce energy wastage.

Introduction:

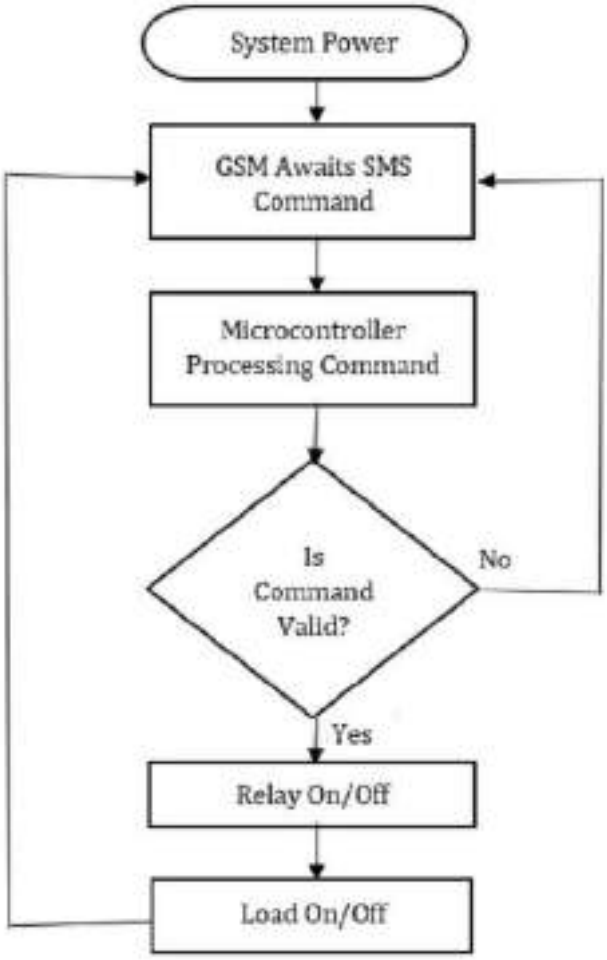
With the use of mobile phone, automatic room control system is used to control electrical appliances remotely (from any part of the world). Consequently, greater amount of energy will be saved and hence the natural resources. This system is designed using Relays, Arduino and GSM module. The electrical appliances are controlled by sending a text message from any mobile located in any part provided it has a GSM connectivity.

Working:

A message is sent from user's mobile phone to the GSM module enable with sim, the message is the communicated with arduino. The controller i.e. arduino compares the message received from GSM module with the stored messages in ardunio memory. If the message is valid microcontroller takes action accordingly. According to the message received function programed i.e. ON or OFF of the relay that are connected to arduino is executed. Thus the load i.e. light, fans etc. connected to the relay are turned ON or OFF remotely and thus save energy if appliances are not needed.



System Block Diagram



Flow of the project

Implementation of the project

Software Lab

Installed project in Software and Research Lab

Project prepared by:

1. Abhishekh Adhav (SE, E&TC)
2. Parjanya Kulkarni (SE, E&TC)

H. O. D.
Electronics & Telecommunication Dep.
Bhivarabai Sawant Institute of
Technology & Research
Wagholi, Pune-412 207

Library & Reading Hall

VC Room

Central Computer Lab

Football Ground

Cricket Ground

Basketball Ground

Volleyball Ground

Sewage Treatment Plant

Water Treatment Plant

Lift

Ramp

JAYAWANT SHIKSHAN PRASARAK MANDAL's
Bhivarabai Sawant Institute of Technology & Research
(Approved by AICTE New Delhi, DTE Mumbai & Affiliated to Savitribai Phule Pune University)
Accredited with B++ Grade by NAAC
Gat No. 719/1 & 2, Wagholi, Pune-Nagar Road, Pune-412207
Ph : 020-067335108, 65217050, 67335100
Telefax : 020-67335100
Website : www.jspm.edu.in / www.bsiotr.org
EN 6311 / CEGP-013100

Prof. Dr. T. J. Sawant
B.E. (Elec.) PGDM, Ph.D
Founder Secretary

Dr. T.K. Nagaraj
ME. (Civil Engg), Ph.D (Civil Engg)
LMISTE, LMIGS, LMIRC
LMISRMTT, LMIE
Principal

***Programs Accredited by National Board of Accreditation (NBA), New Delhi ***

* Electrical Engineering * Electronics and Telecommunication Engineering. * Information Technology

Date: 01/07/2023

ENVIRONMENT AND ENERGY USAGE POLICY

JSPM's Bhivarabai Sawant Institute of Technology and Research, Pune is one of the Premier Institutions in providing quality education for engineering students and it aims to produce professionals of technically competent and socially responsible. The institute has formulated the policy on environmental and energy usage to affirm the Institution's commitment to environmental and energy issues and to solve those issues through continuous improvement in environment-related activities. The policy aims to ensure environmental and energy compliance by adhering the sound environment and energy policies in the academic and administration departments of the institution.

The institute understands that ecological sustainability is the key component of social responsibility and therefore strives to conserve the environment by adhering eco-friendly approach. This includes conserving raw materials, energy, water and waste management.

The environment and energy policy connects all the sectors of the institution and it applies to all its stakeholders and the various activities carried out by the institution. It will help us to improve efficiency and environmental awareness in our everyday activities, thus helping us to realize our responsibilities and commitment to the conservation of natural resources and to limit their usage.

The policy is to conserve the natural environment, provide sustainable solutions and control energy consumption in order

- To create awareness among students about conserving natural resources and the development of a sustainable environment for national prosperity.
- To adopt an ethical and environment-friendly approach in all the activities of the institution to conserve the natural environment.
- To evolve futuristic technologies and develop engineering solutions that help us to sustain the environment and energy in an optimum way.
- To build a society that has an attitude of conservation and harmony with nature.

POLICY DOCUMENT ON ENVIRONMENT AND ENERGY USAGE

Extension and Outreach Activities under NSS and Departmental students associations sensitize the students towards environment sustainability through activities like cleanliness drives, tree plantations, speeches on environment and sustainability etc. Few audit courses are also offered to students which address the issues related to Environment and Energy usage and alternate sources of energy. Department of IT, Electrical and Electronics and Telecommunication Engineering have implemented student projects on renewable energy sources and energy conservation initiatives using latest technology in the departments.

On the campus in which the institute is located Sewage Treatment Plant is available which treats wastewater from various establishments on the campus. This treated water is used for gardening purposes to keep the campus green and clean. This helps in the conservation of clean water.

The campus is lush green with various types of plants and trees which produce lots of organic waste which is used after composting.

Solar energy systems are installed on rooftops which save a certain amount of energy. LED tubes/bulbs are used to conserve energy. Boards are displayed in classrooms and laboratories to switch off the lights, fans etc when not in use.

The policy document of the institute is aimed

- To assess our energy usage and measure its impact on the environment.
- To reduce local air pollution emissions using environment-friendly vehicles, including bicycles, public transportation and use of pedestrian-friendly roads.
- To maximize the natural ventilation for maximum conservation of energy.
- To install photovoltaic solar panels for the generation of alternate energy. To install LED bulbs in the complete campus to save energy.
- To develop a systematic waste management mechanism. To maintain the rainwater harvesting unit.
- To undertake a tree plantation drive.
- To use technological advancement to improve our energy consumption.
- To educate our faculty members and students on environmental knowledge and skills to improve our environmental performance.
- To provide information and training opportunities on energy-saving measures.
- To offer opportunities for faculty members and students to engage in initiatives that contribute to environmental protection.
- To train our faculty members and students and make them 'Go Green Specialists' and partners to plant trees each year.
- To take up environment, energy and green audit every year.
- To review the activities related to measures and initiatives taken for environment sustainability and energy usage.

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Nagaraj Kalyanappa Timalapur

Digitally signed by Nagaraj Kalyanappa Timalapur
DN: CN = Nagaraj Kalyanappa Timalapur, C = IN, S = Maharashtra, O = JSPM'S Bhivarabai Sawant Institute of Technology & Research, OU = OTHERS
Reason: I attest to the accuracy and integrity of this document
Date: 2025.02.02 16:30:05 +05'30'