

INSTITUTE OF COMPUTER & MANAGEMENT RESEARCH

Approved by AICTE, Govt.of Maharashtra & DTE Affiliated to Savitribai Phule Pune University, Pune DTE Code: - 6158 University Code: - IMMPO13230

Certified by ISO: 9001-2015, ISO: 14001-2015



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First Cycle 2023-2028

Hon. Shri. Vilas V. Lande President Hon. Shri. Sudhir V. Mungase Secretary Hon. Shri. Ajit D. Gavhane Treasurer

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1. Organogram







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2. Governance Document









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Rajmata Jijau Shikshan Prasarak Mandal, (RJSPM)

Rajmata Jijau Shikshan Prasarak Mandal, (RJSPM) a public trust has been established in the A.Y. 2000 with a single minded goal to impart value-based, student-centric education to the aspirants coming from urban and rural part of Maharashtra. Trust has knitted together a network of educational activities within short span encompassing pre-primary to professional education. Post Graduate Degree course in Master of Business Administration (M.B.A) was started in 2007 with an objective to provide high quality professional education affordable to ordinary elements of the society.

Vision of Rajmata Jijau Shikshan Prasarak Mandal's Institute of Computer and Management research (RJSPM's ICMR) is "To serve the needs of the society by imparting knowledge and developing skills and attitudes to Inculcate in them values of life. "Mission of Rajmata Jijau Shikshan Prasarak Mandal's Institute of Computer and Management research (RJSPM's ICMR) To inculcate among the students the moral, spiritual and social values to grow as useful citizens and fully developed individuals to enable them to obtain gainful employment or self-employment. To nourish, nurture and develop the all-round personality of students. To stimulate the academic environment for promotion of quality teaching, learning and research. To inculcate among the students, the moral, spiritual and social values to grow as useful citizens and fully developed individuals to enable them to obtain gainful employment or self-employment. To nourish, nurture and develop the all-round personality of students to enable them to obtain gainful employment or self-employment to stimulate the academic environment for promotion of quality teaching, learning and research. To bridge the gap between academic and practical, industrial and business world by organizing seminars, lectures, demonstration, visits to industrial and business houses.







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Apart from institute priorities, institute is showing distinctiveness in many areas, of which, faculty development activity is one of the important areas where institute is taking lots of efforts. Management believes in quality education and this will be achieved only when faculty members are competent. Hence management encourages faculty for Ph.D. registration as well as improve their CV. College always supports and motivates the faculty for higher education which is reflected in the faculty registered for Ph.D. For this purpose, faculty is encouraged by providing various facilities and these are as follows,

a. Consents and NOC's: Institute provides necessary letters and documents required for Ph.D admission.

b. Facilities for research work:

- Library: Institute provides facility of library to the faculty members for their research apart from regular academic books. Faculty can also use databases, journals, periodicals, reference books, etc.
- ii. **Computer and software facility:** Institute provides computer facility with internet to the research work.
- iii. **Publications and Presentations:** Institute supports in the endeavours of the faculty in their research publications as well as in conferences and proceedings.







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- iv. Leaves: Institute allows faculty to attend their PhD related work like submission of progress work, course work, conferences, workshops, pre-synopsis presentations and Viva-voce, etc. Institute considers PhD work as an important task and hence provides certain leaves beyond sanctioned leaves.
- **c. Appreciation:** Institute appreciates the faculty members after successful completion of PhD or any other course and includes these achievements for consideration during their appraisal.
- **d. Promotions:** After PhD completion, institute considers promotion of the faculty member in terms of salary as well as position as applicable.

Guest Lectures Photos:







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Spandan Annual Cultural Gadering









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Annual Activities Photos:









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Teachers day Celebration Photo:









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Independence Day Celebration Photo:





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Other Program Photo:









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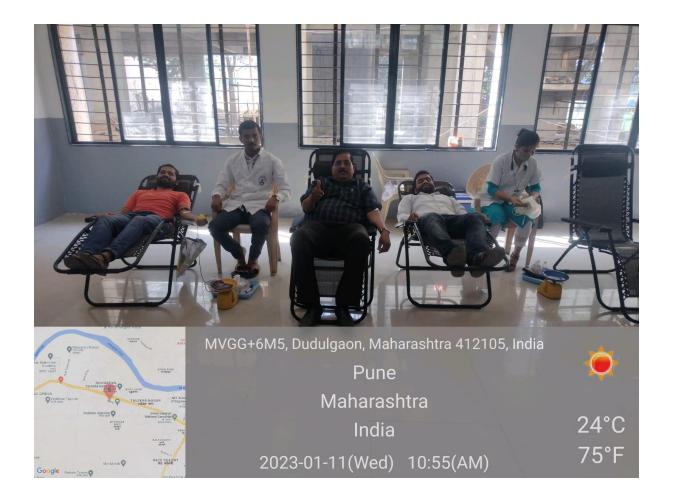


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Blood Donation Camp in RJSPM ICMR Photo:









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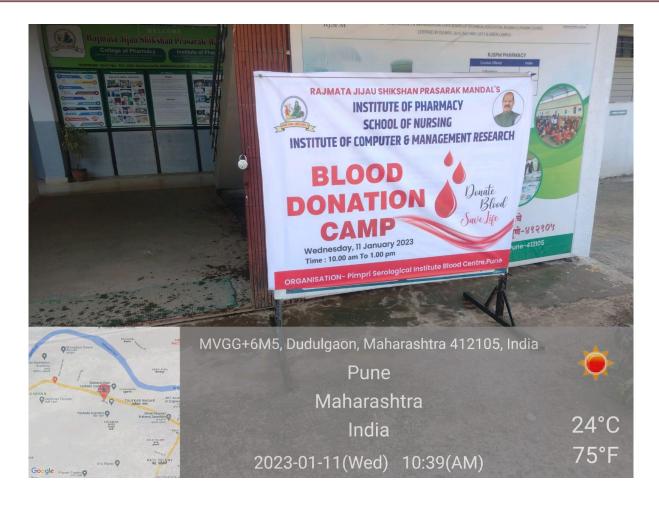
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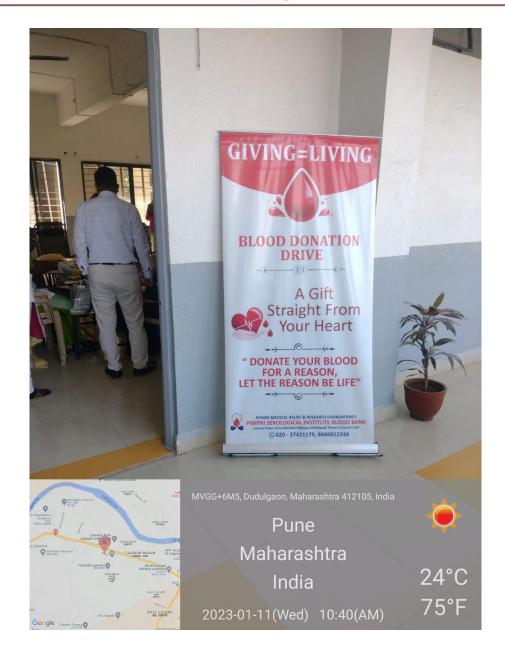
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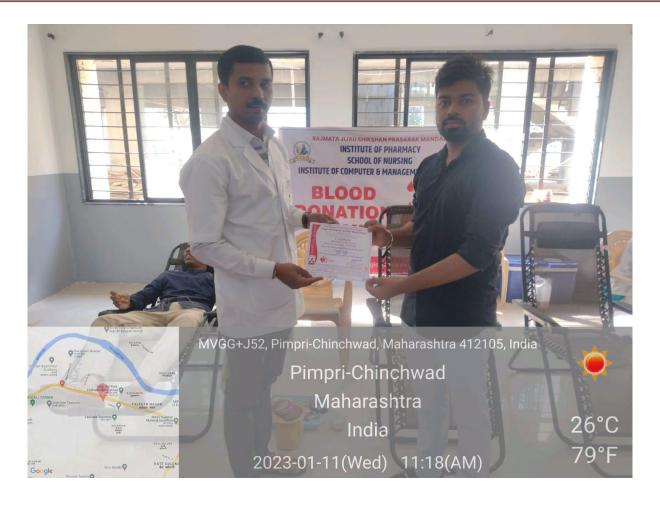
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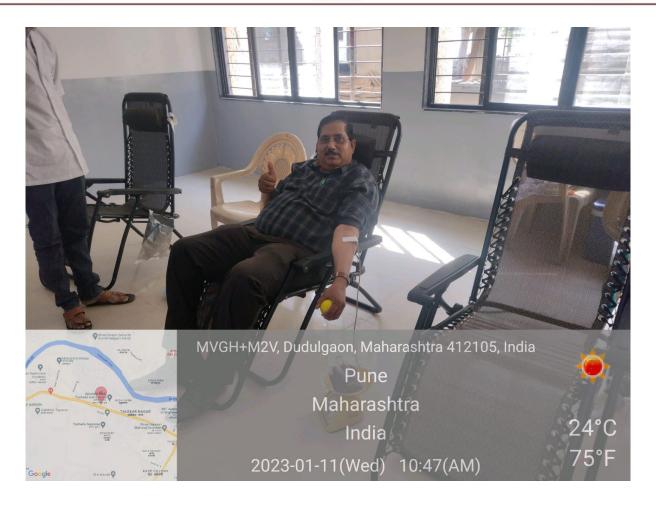
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Sports Day Photo:









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Students Group discussion and PPT presentation Activities Photo:









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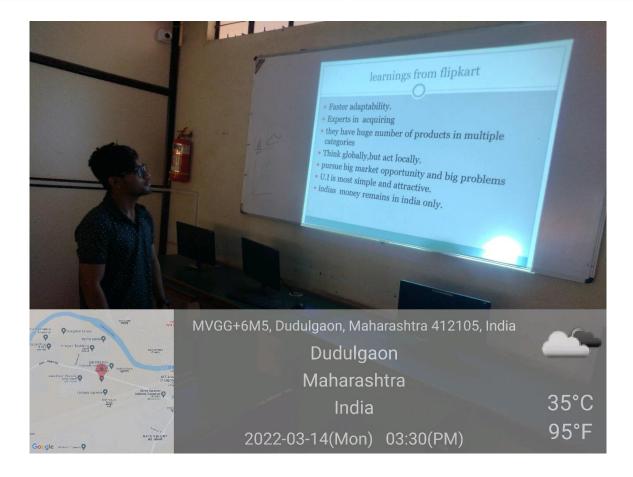
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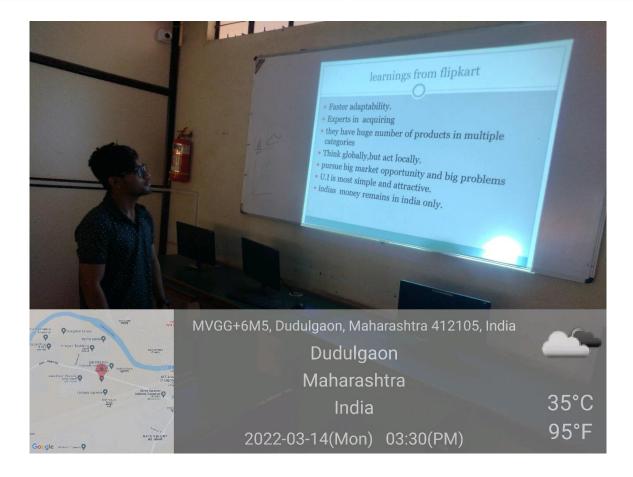
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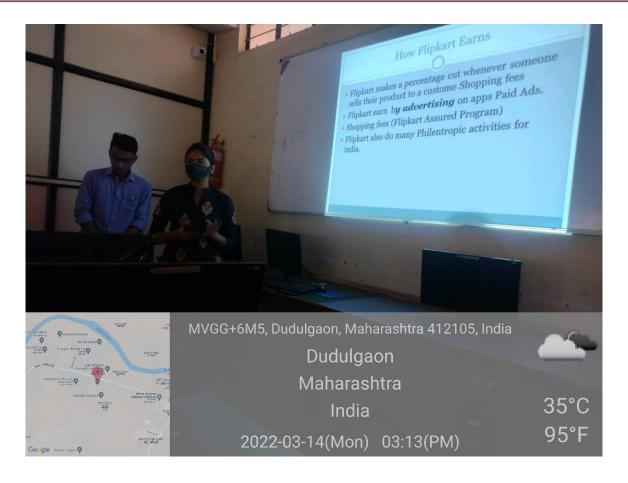
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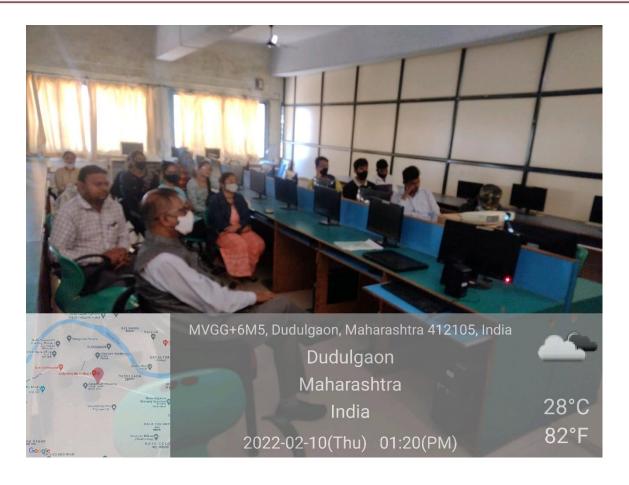
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Students MBA Guidance Lectures Photo:









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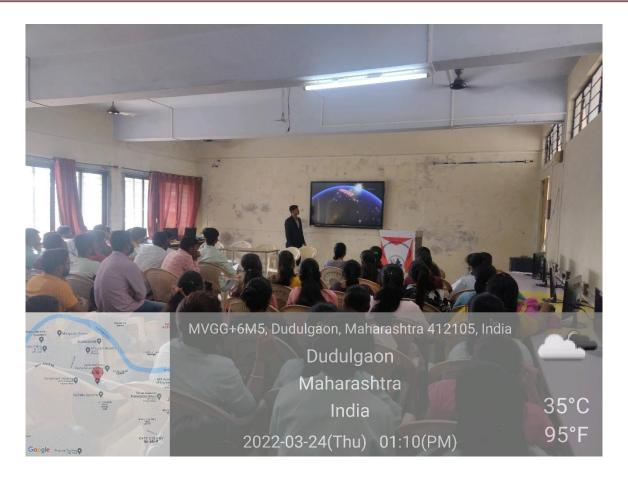
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Days Celebration Photo:









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Republic Day Celebration Photo:











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3

Quality Assurance Initiatives of theInstitution





Teacher's Self-Appraisal/ Performance Report



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Department: Master of Business Administration Date of Joining:

Name of the Faculty: _		
Teaching Experience:		
Workload:	Sub:	Computer
Course Completed:		-

Sr.	Title	Score	Details	Self	Verified	Verified	Remark
No.				Score	Score by	Score	
					Dy.Director	by	
						Director	
1.	Education(Ph.D.) (Any one) Ph.D. awarded :25 Ph.D. Submitted :15 Ph.D. Registered :5 PG with 60 % : 20	25		25			
2.	Experience Only Teaching	04 per yrs Approved / 02 per yrs Non Approved		10			
3.	Teaching Pedagogy used	05		5			
4.	Avg. Results for Last 3 Years Above 80 %:20 Above 60 % to 80 % :15 50 % - 60 %:10 Below 50:00	20		20			







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Hon	Research Lande		Hon. Shri. Sudh	ir V. Mur tary	igase	Hon. Shri. Ajit D. G Treasurer	avhane
5.	Papers Published in a. ISBN Journals,etc. b. UGC listed Journal	10 / paper 07 / paper					
6.	Patents Approved/ Granted: 20 Applied:10						
7.	Publication Books :10 Chapters in books :05						
8.	Contribution in Student Extension Activity CAP / ARA / FRA / DTE / AICTE / SPPU / Academics, SWO ALUMINI	10/Per for Head 05/ per Member					
	Other Portfolio Extra Activities	05 / Portfolio					
9.	Present Post (HOD) :10 Past Post (HOD) : 05						
10	Contribution in University Syllabus Restructuring	05					
11	Role for Subject Development (Bridge Course, Remedial and Advanced teaching etc)	05					

DIRECTOR

QAJMATA JUAU SHIKSHAH PRASARAK MANDAL'S
INSTITUTE OF COMPUTER

& MANAGEMENT RESEARCH
Dudulgson, Pune-412 105



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Hon. Shri. Vilas V. Lande President Hon. Shri. Sudhir V. Mungase Secretary

12	Contribution for Students Placements	05	1.		
13	Role as Mentor for Students (Mentee)	05			
14	Paper Presentation in Seminar/ Conference at State / National / International Level	2 / p a p er			
15	Seminar/ Conference at State / National / International Level Attended	1/ Each			
16	Role for Examination Conduct (CEO , Coordinator)	05			
17	Awards achieved from different institutions	05			
18	Contribution in NAAC / NBA	10			
19	Self SWOT Analysis (Strength, Weakness, Opportunities, Threats)	05			







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20 .	Coordinator, Co-coordinator, Resource person, Convener in Seminar & Conference Punctuality in Work /	05			
	Adaptability/ Dependability/ Initiative	10			
22	Academic Development (Refresher/Orie ntation/ FDP/ QIP other related Course)	5/ program	1.		
23	Research Project Completed/ Ongoing and fund Raising	5/ project			
24	Relation with / Attachment Students: 05 Parents: 05 Alumni: 05 Visitors: 05				
25	Contribution in Admin Part: Student Related: 05 Finance Related: 05 Committee Related: 05				
	TOTAL SCORE				



DIRECTOR

QAMATA JUMU SHIKSHAN PRABARAK MANDAL'S

INSTITUTE OF COMPUTER

& MANAGEMENT RESEARCH

Dudulgaon, Puna-412 105



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Quality audits on environment and energy regularly undertaken by the institute







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Sr. No.	Particulars	Year
1	Policy Document For Environment And Green Campus	2022-2023
2	Green Audit Report And Certificate	2022-2023
3	Environmental Audit Report And Certificate	2022-2023
4	Policy document for energy usage	2022-2023
5	Energy audit report and Certificate	2022-2023
6	Clean and Green campus Initiatives	







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Policy Document for Environmental and Green Campus Initiatives

2022-2023







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POLICIES FOR ENVIRONMENTAL AND GREEN CAMPUS INITIATIVES

Environmental and Green campus:

Rajmata Jijau Shikshan Prasarak Mandal's Institute of Computer and Management Research (RJSPM's ICMR) has taken initiatives to implement eco-friendly practices in the campus. A green campus is a concept where continuous efforts are taken to establish environmentally sustainable and eco-friendly practices. Rajmata Jijau Shikshan Prasarak Mandal's Institute of Computer and Management Research is regularly engaged in a variety of eco-friendly practices in our campus such as tree plantation, installation of solar energy panels etc. Efforts are being made to develop the campus on green concepts, particularly concentrating on water conservation, use of alternative and renewable sources of energy, use of different energy conservation methods, solid waste management, E-waste management etc.

Scope of the Policy:

The Green Campus, Energy and Environment Policies will develop exciting new practices that encourage students in creating positive change. Green campus is achieved by making significant progress in the campus in collaboration with community. The Institute has performed various protocols and programmes under green campus initiatives.







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Objectives of the green campus program:

- To protect and preserve ecological systems and natural resources within the campus.
- To incorporate environmental initiatives into policies, plans and programmes for social development and outreach activities.
- To continuously expand our contribution to climate protection and adaptation to climate change and to the conservation of comprehensive resources.
- Effective use of conventional sources of energies for daily power needs, appropriate disposal and handling of different types of wastes etc.
- Everyone at the RJSPM's ICMR will work together to encourage a beliefs of self-sustainability and make the whole campus environmental friendly.
- To constantly improve the effective use of all natural resources like energy, water etc.
- To decrease consumption and the amount of waste produced as well as encourage for recovering and recycling waste where possible.







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Major points focused under policies are:

- Clean campus initiatives
- Restricted entry of automobiles in college campus
- Pedestrian –friendly pathways
- Availability of sufficient dustbins for collection of different types of garbage
- Organization of campus cleaning activities and programmes
- Environment promotional activities and programmes
- Landscaping with trees and plants
- Water conservation system
- Availability of sanitary napkin disposal equipment
- Solid waste management processes
- E-waste management processes
- Environment-centric student societies and department activities
- Green Audit
- Energy Audit

RJSPM's ICMR actively coordinates cleanliness activities in the college campus. The entry of automobiles inside the campus is restricted to reduce environmental pollution of campus. We encourage our students and staff to use public transportation. Single—use plastic stuffs such as plastic bottles, bags, spoons, straws and cups are banned completely and awareness is created among all teaching, non-teaching staff and students.

The Municipal Corporation's water supply and bore well are the sources of water supply to the college campus. Our college is aware about the water conservation measures and problems associated with water shortage and therefore we follow the





practices for water conservation and efficient use of available water. Water tanks are constructed in campus for proper storage of water. Water is pumped into storage tanks





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located at different places in the campus. Overhead storage tanks are also available. The water is distributed through pipe network in college campus. Maintenance of water bodies and distribution system is periodically carried out to avoid the loss of water by leakage. Some of the common solid wastes include daily garbage comprising of white used papers, card sheets and materials, rubber waste, plastics, cardboard materials, etc. These are collected in dustbins placed in the campus and disposed in eco-friendly manner on daily basis. Separate dustbins are kept in campus for dry and wet waste. The glassware waste is collected and disposed properly. For disposal of papers "Recyclers India Shredding Services" an agency in Pune is engaged for shredding services. We collect E-waste and dispose it properly with the help of agency "Kuldeep E-waste disposals".

The college aims to regularly conduct a Green Audit of our college campus to assess our strengths and weaknesses and to further our goals of long-term sustainability. A green audit is a useful tool to determine how and where most energy or water or resources are being used. An Energy Audit is conducted and required to further reduce its carbon footprint. The importance of reducing energy consumption cannot be overstated. The energy audit, with its specialized tools will identify wastage of energy. Such an inspection often reveals several different flaws which cause a loss of significant amounts of energy which the college will not be able to detect.





ENVIRONMENTAL AUDIT REPORT

of

RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S Educational Campus, Building-B, Dudulgaon, Pune



Year: 2022-23

Prepared by:

ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411009 Phone: 09890444795, Email: engress123@gmail.com



MAHARASHTRA ENERGY DEVELOPMENT AGENCY



Maharashtra Energy Development Agency
(Government of Maharashtra Institution)

Aundh Road, Opposite Spieer College Road, Near Commissionerate of Animal Husbandary,
Aundh, Pune, Maharashtra 411067

Ph No: 020-35000450

Email: eee/a/mahaurja.com, Web: www.mahaurja.com

ECN/2022-23/CR-43/1709

10th May, 2022

CERTIFICATE OF REGISTRATION FOR CLASS 'A'

We hereby certify that, the firm having following particulars is registered with MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA) under given category as "Energy Planner & Energy Auditor" in Maharashtra for Energy Conservation Programme of MEDA.

Name and Address of the firm : M/s Engress Services

Yashshree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009.

Registration Category

: Empanelled Consultant for Energy Conservation

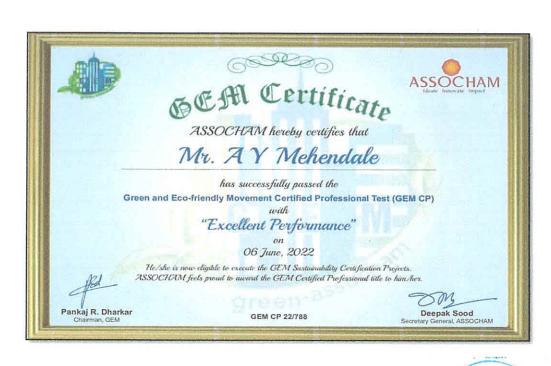
Programme for Class A

Registration Number

: MEDA/ECN/2022-23/Class A/EA-32.

- Energy Conservation Programme intends to identify areas where wasteful use of energy and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings.
- MEDA reserves the right to visit at any time without giving prior information to verify
 quarterly activities performed by the firm and cancelling the registration, if the information is found incorrect.
- This empanelment is valid till 09th May, 2024 from the date of registration, to carry out energy audits under the Energy Conservation Programme
- The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereof.

General Manager (EC)





ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009

Tel: 09890444795 Email: engress123@gmail.com

Ref: ES/RJSPMICMR/22-23/03

Date: 28/2/2023

CERTIFICATE

This is to certify that we have conducted Environmental Audit at Rajmata Jijau Shikshan Prasarak Mandal's Educational Campus, Building-B, Dudulgaon in the year 2022-23.

The Institute has adopted following Environment Friendly Practices:

- Usage of Energy Efficient LED Fittings
- Maximum Usage of Day Lighting
- Installation of 10 kWp Roof Top Solar PV Plant
- Segregation of Waste at source
- Sanitary Waste Incinerator, for disposal of Sanitary Waste
- Rain Water Management Project
- > Internal Tree Plantation

We appreciate the support of Management, involvement of faculty members and students in the process of making the Campus Energy Efficient and Green.

For Engress Services,

A Y Mehendale,

Certified Energy Auditor, EA-8192

Mehandel

ASSOCHAM GEM Certified Professional: GEM: 22/788

PUNE *

INDEX

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4	Study of Indoor Air Quality	15
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ACKNOWLEDGEMENT

We at Engress Services, Pune, express our sincere gratitude to the management of RJSPM's Educational Campus, Building-B, Dudulgaon for awarding us the assignment of Environmental Audit of their Building-B Dudulgaon Campus for the Year: 2022-23.

We are thankful to all staff members for helping us during the field Study.



EXECUTIVE SUMMARY

1. RJSPM's Educational Campus, Building-B, Dudulgaon, Pune consumes Energy in the form of Electrical Energy; used for various gadgets, Office & other facilities.

2. Pollution due to Institute Activities:

➤ Air pollution: Mainly CO₂ on account of Electrical Energy Consumption

> Solid Waste: Bio degradable Garden Waste

Liquid Waste: Human liquid waste

3. Present Energy Consumption:

No	Parameter/ Value	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Total	7810	7.03
2	Maximum	2956	2.66
3	Minimum	0	0.00
4	Average	650.83	0.59

4. The various projects already implemented for Environmental Conservation:

- Usage of Energy Efficient LED Lights
- ➤ Installation of 10 kWp Roof Top Solar PV Plant
- Usage of Natural Day light in corridors
- Implementation of Rain Water Management

5. Usage of Renewable Energy& CO₂ Mitigation:

- The Institute has installed Roof Top Solar PV Plant of Capacity 10 kWp.
- The Electrical Energy generated in 22-23 is 12000 kWh.
- Reduction in CO₂ Emissions in 22-23 is 10.8 MT.

6. Indoor Air Quality Parameters:

No	Parameter/Value	AQI	PM-2.5	PM-10
1	Maximum	93	55	70
2	Minimum	90	52	64

7. Indoor Comfort Conditions:

No	Parameter/Value	Temperature, ⁰ C	Humidity, %	Lux Level	Noise Level, dB
1	Maximum	27.2	41	198	45
2	Minimum	26.8	40	145	40

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8. Waste Management:

8.1 Segregation of Waste at Source:

The Waste is segregated at Source. Waste Collection Bins are kept at prominent places.

8.2 Sanitary Waste Management:

There is a Sanitary Waste Incinerator, to dispose of the Sanitary Waste in the campus.

8.3 E-Waste Management:

It is recommended to dispose of the E Waste through Authorized Agency.

9. Rain Water Management:

The Institute has implemented Rain Water Management Project, wherein the Rain Water from the Terraces is collected and is used to increase the underground water level.

10. Assumptions:

- 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere
- Average Energy generated by 1 kWp Solar PV Plant: 4 kWh/Day
- Annual Solar Energy Generation Days: 300 Nos

11. References:

- For CO₂ Emissions: <u>www.tatapower.com</u>
- For Roof Top Solar Energy Generation: www.solarrooftop.gov.in
- For Various Indoor Air Parameters: www.ishrae.com
- For AQI & Water Quality Standards: www.cpcb.com



ABBREVIATIONS

RJSPM Rajmata Jijau Shikshan Prasarak Mandal

MSEDCL Maharashtra State Electricity Distribution Company Ltd

kWp Kilo Watt peak

kWh kilo-Watt Hour

CO₂ Carbon Di Oxide

MT Metric Ton

AQI Air Quality Index

PM-2.5 Particulate Matter of Size 2.5 Micron
PM-10 Particulate Matter of Size 10 Micron

CPCB Central Pollution Control Board

CHAPTER-I INTRODUCTION

1.1Important Definitions:

1.1.1 Environment: Definition as per environment Protection Act: 1986

Environment includes water, air and land and the inter-relationship which exists among and between Water, Air, Land and Human beings, other living creatures, plants microorganism and property

1.1.2. Environmental Audit: Definition:

An audit which aims at verification and validation to ensure that various environmental laws are compiled with and adequate care has been taken towards environmental protection and preservation

According to UNEP, 1990, "Environmental audit can be defined as a management tool comprising systematic, documented and periodic evaluation of how well environmental organization management and equipment are performing with an aim of helping to regularize the environment

1.1.3. Environmental Pollutant: means any solid, liquid and gaseous substance present in the concentration as may be, or tend to be, injurious to Environment.

1.1.4. Relevant Environmental Laws in India: Table No-1:

1927	The Indian Forest Act
1972	The Wildlife Protection Act
1974	The Water (Prevention and Control of Pollution) Act
1977	The Water (Prevention & Control of Pollution) Cess Act
1980	The Forest (Conservation) Act
1981	The Air (Prevention and Control of Pollution) Act
1986	The Environment Protection Act
1991	The Public Liability Insurance Act
2002	The Biological Diversity Act
2010	The National Green Tribunal Act

1.1.5. Some Important Environmental Rules in India: Table No-2:

1989	Hazardous Waste (Management and Handling) Rules			
1989	Manufacture, Storage and Import of Hazardous Chemical Rules			
2000	2000 Municipal Solid Waste (Management and Handling) Rules			
1998	The Biomedical Waste (Management and Handling) Rules			
1999	The Environment (Siting for Industrial Projects) Rules			
2000	Noise Pollution (Regulation and Control) Rules			
2000	Ozone Depleting Substances (Regulation and Control) Rules			
2011	E-waste (Management and Handling) Rules			

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2011	National Green Tribunal (Practices and Procedure) Rules	
2011	Plastic Waste (Management and Handling) Rules	

1.1.6 National Environmental Plans & Policy Documents: Table No-3:

1.	National Forest Policy, 1988			
2.	National Water Policy, 2002			
3.	National Environment Policy or NEP (2006)			
4.	National Conservation Strategy and Policy Statement on Environment and Development, 1992			
5.	Policy Statement for Abatement of Pollution (1992)			
6.	National Action Plan on Climate Change			
7.	Vision Statement on Environment and Human Health			
8.	Technology Vision 2030 (The Energy Research Institute)			
9.	Addressing Energy Security and Climate Change (MoEF and Bureau of Energy Efficiency			
10	The Road to Copenhagen; India's Position on Climate Change Issues (MoEF)			

1.2 Methodology:

- 1. To study present usage of Natural resources the Institute is consuming
- 2. To Study the present pollution sources
- 3. To study various measures to make the campus Self sustainable in respect of Natural resources
- 4. To study CO₂ Emission
- 5. To study CO₂ Emission Reduction
- 6. Study of Indoor Air Quality and Indoor Comfort Parameters
- 7. Study of Waste Management
- 8. Study of Rain Water Management
- 9. Study of Eco Friendly Initiatives

1.3 General Details of Institute: Table No 4:

No	Head	Particulars	
1	Name	RJSPM's Educational Campus, Building-B	
2	Address	Dudulgaon, Pune 412 105	
3	Affiliation	Savitribai Phule Pune University	



1.4 Google Earth Image:



Institute Campus

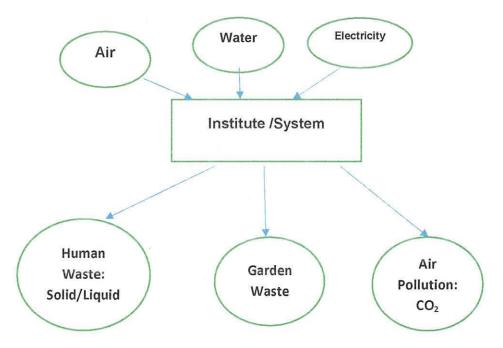


CHAPTER-II STUDY OF RESOURCE CONSUMPTION & CO_2 EMISSION

The Institute consumes following basic/derived Resources:

- 1. Air
- 2. Water
- 3. Electrical Energy

We try to draw a schematic diagram for the Institute System & Environment as under. Chart No:1



Now we compute the Generation of CO_2 on account of consumption of Electrical Energy. The basis of Calculation for CO_2 emissions due to Electrical Energy is as under

• 1 kWh of Electrical Energy releases 0.9 Kg of CO2 into atmosphere

Table No 5: Study of Consumption of Electrical Energy & CO₂ Emissions: 21-22:

No	Month	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Feb-22	0	0
2	Mar-22	0	0
3	Apr-22	0	0
4	May-22	0	0
5	Jun-22	0	0
6	Jul-22	0	0

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7	Aug-22	0	0
8	Sep-22	75	0.07
9	Oct-22	1590	1.43
10	Nov-22	1175	1.06
11	Dec-22	2014	1.81
12	Jan-23	2956	2.66
13	Total	7810	7.03
14	Maximum	2956	2.66
15	Minimum	0	0.00
16	Average	650.83	0.59

Chart No 2: To study the variation of Monthly Energy Consumption:

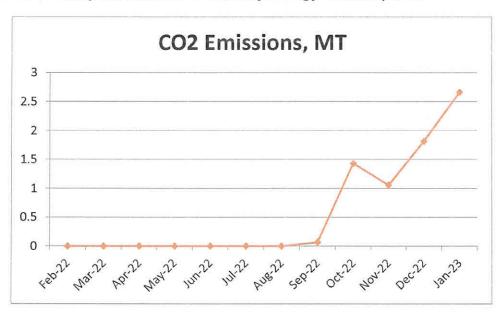


Table No 6: Various Important Parameters:

No	Parameter/ Value	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Total	7810	7.03
2	Maximum	2956	2.66
3	Minimum	0	0.00
4	Average	650.83	0.59

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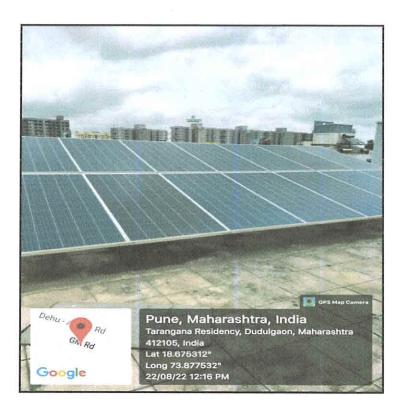
CHAPTER-IV STUDY OF CO₂EMISSION REDUCTION

The Institute has installed Roof Top **10 kWp** Solar PV Plant. In the following Table, we compute the reduction in CO₂ emission due to Solar PV Plant.

Table No 7: Computation of CO₂ Emission Reduction by Usage of Alternate Energy:

No	Parameter	Value	Unit
1	Installed Solar PV Capacity	10	kWp
2	Average Daily Energy Generated	4	kWh/kWp
3	Annual Working Days	300	Nos
4	Annual Energy Generated	12000	kWh/Annum
5	Reduction in 1 kWh of Electrical Energy reduces CO ₂ Emissions by	0.9	Kg of CO ₂
6	Amount of CO ₂ Emission Reduction by 10 kWp Solar Plant =4*5/1000	10.8	MT of CO ₂

Photograph of 10 kWp Roof Top Solar PV Plant:





CHAPTER IV STUDY OF INDOOR AIR QUALITY

4.1 Importance of Air Quality:

Air: The common name given to the atmospheric gases used in breathing and photosynthesis.

By volume, Dry Air contains 78.09% Nitrogen, 20.95% Oxygen, 0.93% Argon, 0.039% carbon dioxide, and small amounts of other gases.

On average, a person inhales about **14,000 liters** of air every day. Therefore, poor air quality may affect the quality of life now and for future generations by affecting the health, the environment, the economy and the city's livability.

Air quality is a measure of the suitability of air for breathing by people, plants and animals.

According to Section 2(b) of Air (Prevention and control of pollution) Act, 1981 'air pollution' has been defined as 'the presence in the atmosphere of any air pollutant.'

As per Section 2(a) of Air (Prevention and control of pollution) Act, 1981 'air pollutant' has been defined as 'any solid, liquid or gaseous substance [(including noise)] present in the atmosphere in such concentration as may be or tend to be injurious to human beings or other living creatures or plants or property or environment

4.2 Air Quality Index:

An Air Quality Index (AQI) is a number used by government agencies to measure the air pollution levels and communicate it to the population. As the AQI increases, it means that a large percentage of the population will experience severe adverse health effects. The measurement of the AQI requires an air monitor and an air pollutant concentration over a specified averaging period.

We present herewith following important Parameters.

- 1. AQI- Air Quality Index
- 2. PM-2.5- Particulate Matter of Size 2.5 micron
- 3. PM-10- Particulate Matter of Size 10micron

Table No 8: Indoor Air Quality Parameters:

No	Location	AQI	PM 2.5	PM 10
	Ground Floor			
1	Reading Room	93	55	68
2	Tutorial Room	90	55	70
3	Class Room	90	52	64
4	Class Room	91	54	68

Page 15

5	Class Room	92	55	67
6	Computer Lab	93	55	68
7	Store Room	90	54	69
8	Admin Office	90	54	67
	First Floor			
9	Seminar Hall	92	55	67
	Maximum	93	55	70
	Minimum	90	52	64

CHAPTER V STUDY OF INDOOR COMFORT CONDITION PARAMETERS

In this Chapter, we present the various Indoor Comfort Parameters measured during the Audit.

The Parameters include:

- 1. Temperature
- 2. Humidity
- 3. Lux Level
- 4. Noise Level.

Table No 9: Study of Indoor Comfort Condition Parameters:

No	Location	Temperature, °C	Humidity, %	Lux Level	Noise Level, dB
	Ground Floor				
1	Reading Room	27.1	40	198	44.2
2	Tutorial Room	27.2	41	157	43.2
3	Class Room	27.1	41	145	44.1
4	Class Room	27	41	187	45
5	Class Room	27	40	147	45
6	Computer Lab	27.1	41	196	44.6
7	Store Room	27.1	40	164	44.3
8	Admin Office	27	40	147	43.9
	First Floor				
9	Seminar Hall	26.8	41	156	40
_,.	Maximum	27.2	41	198	45
	Minimum	26.8	40	145	40



CHAPTER-VI STUDY OF WASTE MANAGEMENT

6.1 Segregation of Waste at Source:

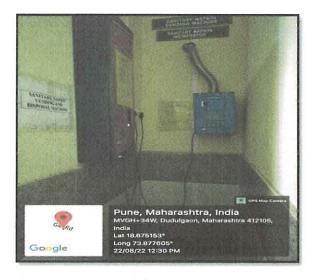
The Waste is segregated at source. At important locations, Waste collection Bins are placed, for waste collection.

Photograph of Waste Bins:



6.2 Sanitary Waste Management:

There is a Sanitary Waste Incinerator, to dispose of the Sanitary Waste in the campus. Photograph of Sanitary Waste Incinerator:



6.3 E Waste Management:

It is recommended to dispose of the E Waste through Authorized Agency.



CHAPTER-VII STUDY OF RAIN WATER MANAGMENT

The Institute has implemented the Rain Water Management Project. The rain water falling on the terrace is collected through pipes and is used for increasing the underground water level.

Photograph of Rain Water Management Pipe:





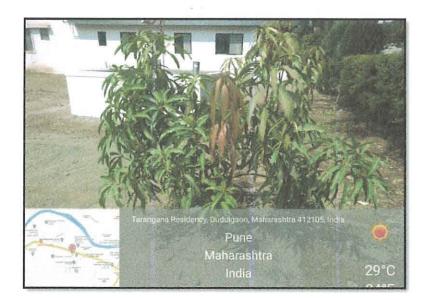
CHAPTER-VIII STUDY OF ENVIRONMENTAL FRIENDLY PRACTICES

8.1 Internal Tree Plantation:

The Institute has done Tree Plantation in the campus.

Photograph of Tree Plantation in the campus:





ANNEXURE-I:

VARIOUS AIR QUALITY, WATER QUALITY, NOISE & INDOOR COMFORT STANDARDS:

1. Category Wise Air Quality Index Values & Concentration of PM 2.5 & PM10:

No	Category	AQI Value	Concentration Range, PM 2.5	Concentration Range, PM 10
1	Good	0 to 50	0 to 30	0 to 50
2	Satisfactory	51 to 100	31 to 60	51 to 100
3	Moderately Polluted	101 to 200	61 to 90	101 to 250
4	Poor	201 to 300	91 to 120	251 to 350
5	Very Poor	301 to 400	121 to 250	351 to 430
6	Severe	401 to 500	250 +	430 +

2. Recommended Water Quality Standards:

No	Designated Best Use	Criteria
1	Drinking Water Source without conventional Treatment but after disinfection	pH between 6.5 to 7.4 Dissolved Oxygen 6 mg/l or more
2	Drinking water source after conventional treatment and disinfection	pH between 6 to 9 Dissolved Oxygen 4 mg/l or more
3	Outdoor Bathing (Organized)	pH between 6.5 to 7.4 Dissolved Oxygen 5 mg/l or more
4	Controlled Waste Disposal	pH between 6 to 7.4



Engress Services, Pune

3. Recommended Noise Level Standards:

No	Location	Noise Level dB
1	Auditoriums	20-25
2	Outdoor Playground	55
3	Occupied Class Room	40-45
4	Un occupied Class Room	35
5	Apartment, Homes	35-40
6	Offices	45-50
7	Libraries	35-40
8	Restaurants	50-55

4. Thermal Comfort Conditions: For Non-conditioned Buildings:

No	Parameter	Value
1	Temperature	Less Than 33°C
2	Humidity	Less Than 70%

PUNE P

RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S



INSTITUTE OF COMPUTER & MANAGEMENT RESEARCH

Approved by AICTE, Govt.of Maharashtra & DTE
Affiliated to Savitribai Phule Pune University, Pune
DTE Code: - 6158 University Code: - IMMPO13230

Certified by ISO : 9001 -2015, ISO : 14001 -2015



Recognized as Green Educational Campus

First Cycle 2023-2028

Hon. Shri. Vilas V. Lande President Hon. Shri. Sudhir V. Mungase Secretary Hon. Shri. Ajit D. Gavhane Treasurer

Green audit / Environment audit









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Certificate of Registration

This is to Certify that Environmental Management System of

RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S EDUCATION CAMPUS

INSTITUTE OF COMPUTER & MANAGEMENT RESEARCH (MBA), COLLEGE OFPHARMACY (B. PHARM) INSTITUTE OF PHARMACY (B. PHARM), SCHOOL OF NURSING (GNM), DNYANBHAKTI JUNIOR COLLEGE (ACS) DNYANBHAKTI INTERNATIONAL SCHOOL.

GAT NO. 101/102, MOSHI ALANDI ROAD, DUDULGAON, PUNE- 412105, MAHARASHTRA, INDIA.

has been assessed and found to conform to the requirements of

ISO 14001:2015

for the following scope:

PROVISION OF EDUCATIONAL SERVICES IN MBA (SPPU), B.PHARM. (SPPU),
D.PHARM. (MSBTE), GNM (MSBNPE), XI, XII, ARTS, COMMERCE & SCIENCE
(HSC BOARD, PUNE) AND PRE-PRIMARY, PRIMARY & SECONDARY
EDUCATION (SSC/CBSE)

Certificate No : 201EFE45

Initial Registration Date : 06/10/2020 Issuance Date : 06/10/2020

Date of Expiry : 05/10/2023

1st Surve. Due : 06/09/2021 2nd Surve. Due : 06/09/2022

1. Jahr

Director





ACCREDITED
Management Systems
Certification Body
MSCB-119



AQC MIDDLE EAST FZE.

Head Office: E3-1401 E Ambre Gem Tener, Sheikh Khaifa Bin Zayed Road. 2, Ayman, UAE. e-mail: <u>infeit agenerid.arm,</u> Key Location: 403, Madhabon Building. 53. Noben Place, New Delhi-110019, India.

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INSTITUTE OF COMPUTER & MANAGEMENT RESEARCH

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Certificate of Registration Rajmata Jijau Shikshan Prasarak Mandal's EDUCATION CAMPUS

Institute of Computer & Management Research (MBA)
Institute of Pharmacy (D. Pharm), College of Pharmacy (B.Pharm)
School of Nursing (GNM), Dnyanbhakti Junior College (ACS)
Dnyanbhakti International School

Gat No. 101/102, Moshi Alandi Road, Dudulgaon, PCMC, Pune-412 105, Maharashtra, India.

GREEN EDUCATION CAMPUS

has been assessed by IPQC as conforming to the requirements of IPQC Green Education Campus Certification. The following Education Campus are fulfilling the requirements of IPQC Green Education Campus Certification

Scope of Registration For Preventing Pollution, Conserving Natural Resources and Complying Environmental Regulatory Requirements.

Certificate Date: 08 October 2020 Valid Until: 07 October 2023

CERTIFICATE NO.: 1571552586





AUTHORISED SIGNATORY



IPQC Certification (info@ipqc.co.uk/www.ipqc.co.uk)

Corporate Office: 7, Merry Terrace Woking, London FU213EH, UK

Validity of this certificate is subject to minust surveillance audits to be done successfully on or before that due of audit timese if surveillance audit is not conducted; this certificate can be verified at wow appeared.

This certificate remains the property of DQC Certification and shall be returned immediately on request.

RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S

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2nd Surve. Due : 06/09/2022 : 06/09/2021 1st Surve, Due

Director





ACCREDITED



: 06/10/2020

AQC MIDDLE EAST FZE.

Head Office: E1-1401 F. Amber Gem Tirece, Sheikh Khalifa Bin Zayad Road, 2. Ajman, UAE. e-mail: <u>infolli-agenorid com</u>, Key Location: 403. Madhaban Building, 55, Nebru Place, New Delhi-H0019, India. **Talking of the Computer to magnetic magnetism of necollines and two or lafter of due date. In one occulture and to not observed to be

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GREEN AUDIT REPORT

of

RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S Educational Campus, Building-B, Dudulgaon, Pune



Year: 2022-23

Prepared by:

ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411009 Phone: 09890444795, Email: engress123@gmail.com



MAHARASHTRA ENERGY DEVELOPMENT AGENCY



Maharashtra Energy Development Agency
(Government of Maharashtra Institution)

Aundh Road, Opposite Spicer College Road, Near Commissionerate of Animal Husbandary,
Aundh, Pune, Maharashtra 411067
Ph No: 020-35000450

Email: eee@mahaurja.com, Web: www.mahaurja.com

ECN/2022-23/CR-43/1709

10th May, 2022

CERTIFICATE OF REGISTRATION FOR CLASS 'A'

We hereby certify that, the firm having following particulars is registered with MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA) under given category as "Energy Planner & Fnergy Auditor" in Maharashtra for Energy Conservation Programme of

Name and Address of the firm : M/s Engress Services

Yashshree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune -411 009;

Registration Category

: Empanelled Consultant for Energy Conservation

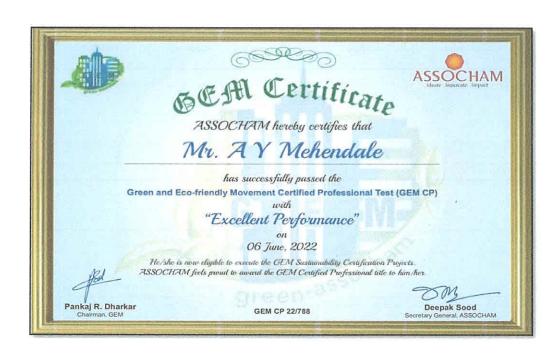
Programme for Class A

Registration Number

: MEDA/ECN/2022-23/Class A/EA-32.

- Energy Conservation Programme intends to identify areas where wasteful use of energy and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings.
- MEDA reserves the right to visit at any time without giving prior information to verify quarterly activities performed by the firm and canceling the registration, if the information is found incorrect.
- This empanelment is valid till 09th May, 2024 from the date of registration, to carry out energy audits under the Energy Conservation Programme
- The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereof.

General Manager (EC)





Green Audit Report: RJSPM's Educational Campus, Building-B, Dudulgaon: 22-23

ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009

Tel: 09890444795 Email: engress123@gmail.com

Ref: ES/RJSPMICMR/22-23/02

Date: 28/2/2023

CERTIFICATE

This is to certify that we have conducted Green Audit at Rajmata Jijau Shikshan Prasarak Mandal's Educational Campus, Building-B, Dudulgaon in the year 2022-23.

The Institute has adopted following Green Practices:

- Usage of Energy Efficient LED Fittings
- Usage of Energy Efficient BEE STAR Rated equipment
- Maximum usage of Day Lighting
- Installation of 10 kWp Roof Top Solar PV Plant
- Segregation of Waste at source
- Sanitary Waste Incinerator for disposal of Sanitary Waste
- Rain Water Management Project
- Good Internal Road
- Internal Tree Plantation
- Provision of Ramp for Divyangajan

We appreciate the support of Management, involvement of faculty members and students in the process of making the Campus Energy Efficient and Green.

For Engress Services,

A Y Mehendale,

Certified Energy Auditor, EA-8192

ASSOCHAM GEM Certified Professional: GEM: 22/788



INDEX

Sr. No	Particulars	Page No
I	Acknowledgement	5
П	Executive Summary	6
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3	Carbon Foot printing	11
4	Study of Usage of Renewable Energy	13
5	Study of Waste Management	14
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1	List of Trees and Plants in the Campus	18

Green Audit Report: RJSPM's Educational Campus, Building-B, Dudulgaon: 22-23

ACKNOWLEDGEMENT

We at Engress Services, Pune, express our sincere gratitude to the management of RJSPM's Educational Campus, Building-B, Dudulgaon for awarding us the assignment of Green Audit of their Building-B, Dudulgaon Campus for the Year: 2022-23.

We are thankful to all staff members for helping us during the field Study.



EXECUTIVE SUMMARY

1. RJSPM's Educational Campus, Building-B, Dudulgaon, Pune consumes Energy in the form of Electrical Energy; used for various gadgets, Office & other facilities.

2. Present Energy Consumption:

No	Parameter/ Value	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Total	7810	7.03
2	Maximum	2956	2.66
3	Minimum	0	0.00
4	Average	650.83	0.59

3. Usage of Renewable Energy & CO₂ Emission Reduction:

- The Institute has installed Roof Top Solar PV Plant of Capacity 10 kWp.
- The Electrical Energy generated in 22-23 is 12000 kWh.
- Reduction in CO₂ Emissions in 22-23 is 10.8 MT.

4. Waste Management:

4.1 Segregation of Waste at Source:

The Waste is segregated at Source. Waste Collection Bins are kept at prominent places.

4.2 Sanitary Waste Management:

There is a Sanitary Waste Incinerator, to dispose of the Sanitary Waste in the campus.

4.3 E-Waste Management:

It is recommended to dispose of the E Waste through Authorized Agency.

5. Rain Water Management:

The Rain Water from the Terrace is used to increase the underground water level.

6. Green & Sustainable Practices:

- Good Internal Road
- Internal Tree Plantation
- Provision of Ramp for Divyangajan

7. Assumptions:

- 1. 1 kWh of Electrical Energy releases 0.9 Kg of CO2into atmosphere
- 2. Average Energy generated by 1 kWp Solar PV Plant : 4 kWh/Day
- Annual Solar Energy Generation Days: 300 Nos

8. References:

- For CO₂ Emissions: www.tatapower.com
- For Roof Top Solar Energy generation: www.solarrooftop.gov.in



Green Audit Report: RJSPM's Educational Campus, Building-B, Dudulgaon: 22-23

ABBREVIATIONS

LED Light Emitting Diode

MSEDCL Maharashtra State Electricity Distribution Company Ltd

kWp Kilo Watt peak kWh kilo-Watt Hour

CO₂ Carbon Di Oxide

MT Metric Ton

RJSPM Rajmata Jijau Shikshan Prasarak Mandal

MBA Master in Business Administration

CHAPTER-I INTRODUCTION

1.1 Objectives:

- 1. To study the Connected Load
- 2. To study present level of Energy Consumption
- 3. To Study the present CO₂ emissions
- 4. To study Scope for usage of Renewable Energy
- 5. To study Waste Management
- 6. To study Rain Water Management

1.3 General Details of Institute: Table No 1:

No	Head	Particulars
1	Name	RJSPM's Educational Campus, Building-B
2	Address	Dudulgaon, Pune 412 105
3	Affiliation	Savitribai Phule Pune University

1.3 Google Earth Image:



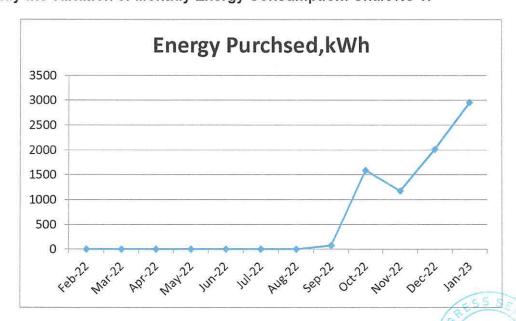


CHAPTER-II STUDY OF PRESENT ENERGY CONSUMPTION

In this chapter, we present the analysis of last year Electricity Bills Table No 2: Electrical Bill Analysis - 2022-23:

No	Month	Energy Purchased ,kWh
1	Feb-22	0
2	Mar-22	0
3	Apr-22	0
4	May-22	0
5	Jun-22	0
6	Jul-22	0
7	Aug-22	0
8	Sep-22	75
9	Oct-22	1590
10	Nov-22	1175
11	Dec-22	2014
12	Jan-23	2956
13	Total	7810
14	Maximum	2956
15	Minimum	0
16	Average	650.83

To study the variation of Monthly Energy Consumption: Chart No 1:



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Page 9

Green Audit Report: RJSPM's Educational Campus, Building-B, Dudulgaon: 22-23

Table No 3: Various Important Parameters:

No	Parameter/ Value	Total Energy Consumed, kWh
1	Total	7810
2	Maximum	2956
3	Minimum	0
4	Average	650.83



CHAPTER-III CARBON FOOT PRINTING

A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities.

In this we compute the emissions of Carbon-Di-Oxide, by usage of the various forms of Energy used by the Institute for performing its day to day activities

The Institute uses Electrical Energy for various Electrical gadgets.

Basis for computation of CO₂ Emissions:

The basis of Calculation for CO₂ emissions due to Electrical Energy are as under

• 1 Unit (kWh) of Electrical Energy releases **0.9 Kg of CO₂** into atmosphere Based on the above Data we compute the CO₂ emissions which are being released in to the atmosphere by the Institute due to its Day to Day operations

Table No 4: Month wise CO₂ Emissions:

No	Month	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Feb-22	0	0
2	Mar-22	0	0
3	Apr-22	0	0
4	May-22	0	0
5	Jun-22	0	0
6	Jul-22	0	0
7	Aug-22	0	0
8	Sep-22	75	0.07
9	Oct-22	1590	1.43
10	Nov-22	1175	1.06
11	Dec-22	2014	1.81
12	Jan-23	2956	2.66
13	Total	7810	7.03
14	Maximum	2956	2.66
15	Minimum	0	0.00
16	Average	650.83	0.59



Chart No 2: Representation of Month wise CO₂ emissions:

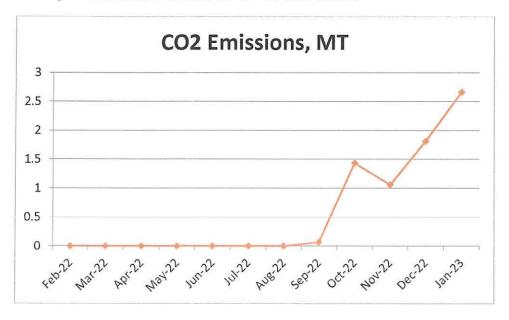


Table No 5: Important Parameters:

No	Parameter/ Value	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Total	7810	7.03
2	Maximum	2956	2.66
3	Minimum	0	0.00
4	Average	650.83	0.59



CHAPTER-IV STUDY OF USAGE OF RENEWABLE ENERGY

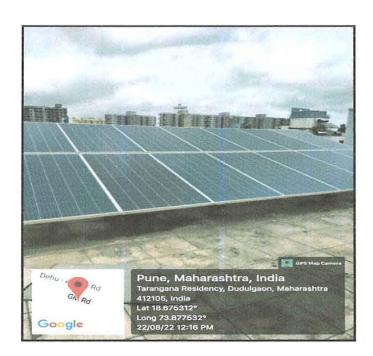
The Institute has installed Roof Top 10 kWp Roof Top Solar PV Plant.

In the following Table, we compute the Annual Energy requirement met by Alternate Energy.

Table No 6: Computation of Annual Reduction in CO₂ Emissions:

No	Parameter	Value	Unit
1	Installed Solar PV Capacity	10	kWp
2	Average Daily Energy Generated	4	kWh/kWp
3	Annual Working Days	300	Nos
4	Annual Energy Generated	12000	kWh/Annum
5	1 kWh of Energy is equivalent to	0.9	Kg of CO ₂
7	Annual Reduction in CO ₂ Emissions = (4) * (5) / 1000	10.8	%

Photograph of 10 kWp Roof Top Solar PV Plant:





CHAPTER-V STUDY OF WASTE MANAGEMENT

5.1 Segregation of Waste at Source:

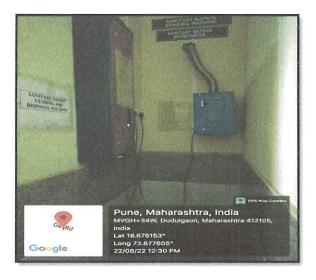
The Waste is segregated at source. At important locations, Waste collection Bins are placed, for waste collection.

Photograph of Waste Bins:



5.2 Sanitary Waste Management:

There is a Sanitary Waste Incinerator, to dispose of the Sanitary Waste in the campus. Photograph of Sanitary Waste Incinerator:



5.3 E Waste Management:

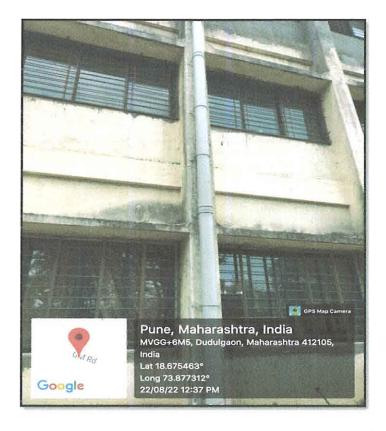
It is recommended to dispose of the E Waste through Authorized Agency.

Page 14

CHAPTER-VI STUDY OF RAIN WATER MANAGEMENT

The Institute has implemented the Rain Water Management Project. The rain water falling on the terrace is collected through pipes and is used for increasing the underground water level.

Photograph of Rain Water Management Pipe:



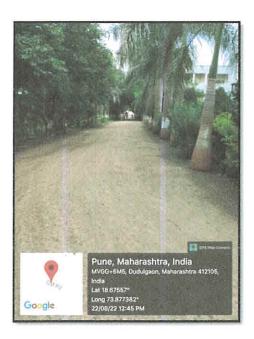


CHAPTER VII STUDY OF GREEN & SUSTAINABLE PRACTICES

7.1 Pedestrian Friendly Road:

The Institute has well defined pedestrian roads to facilitate the easy movement of the students within the campus.

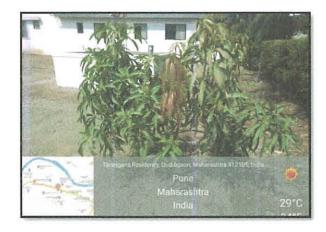
Photograph of Internal Road:



7.2 Internal Tree Plantation:

The Institute has done Tree Plantation in the campus. Photograph of Tree Plantation in the campus:







Green Audit Report: RJSPM's Educational Campus, Building-B, Dudulgaon: 22-23

7.3 Ramp for Divyangajan:

The Institute has made provision of Ramp for Divyangajan.

Photograph of Ramp:





ANNEXURE-I LIST OF TREES AND PLANTS

List of Plants and Trees:

No	Common Name of Tree/Plant
1	Royal Palm
2	Cactus
3	Bunny ears (Cactus)
4	Aloe
5	Tulsi
6	Datura
7	Turmeric
8	Guava
9	Lemon grass
10	Castor
11	Kokum
12	Hadjod
13	Heena
14	Senna
15	Lemon
16	Hibiscus
17	Narakya
18	Hibiscus
19	Sentry plant
20	Shatavari
21	Hirda
22	Mango
23	Amla
24	Guva
25	Lajalu
26	Jui
27	Vasaka
28	Vasaka
29	Narakya
30	Hibiscus

31	Beheda
32	Leather Fern
33	Narakya
34	Bael, Shriparni
35	Vinca
36	Vekhand
37	Annatto
38	Annatto
39	Shatavari
40	Jequerity bean
41	Gulvel
42	Money Plant
43	Nirgudi
44	White Vajradanti
45	Shalparni
46	Neem
47	Laghu patha
48	Punnay Tree
49	Jambul
50	Umber
51	Jambul
52	Custard apple
53	Cashew seed
54	Indian Jackfruit
55	Pomegranate
56	Christmas tree



RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S

INSTITUTE OF COMPUTER & MANAGEMENT RESEARCH

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Recognized as Green Educational Campus

First Cycle 2023-2028

Hon. Shri. Vilas V. Lande

Hon. Shri. Sudhir V. Mungase Secretary Hon. Shri. Ajit D. Gavhane

Policy document for Energy usage







Approved by AICTE, Govt.of Maharashtra & DTE
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Hon. Shri. Vilas V. Lande President Hon. Shri. Sudhir V. Mungase Secretary Hon. Shri. Ajit D. Gavhane

POLICY DOCUMENT FOR ENERGY USAGE

Rajmata Jijau Shikshan Prasarak Mandal's Institute of Computer and Management Research (RJSPM's ICMR) follows energy usage policy which is designed for systematic energy management to minimise its impact on the environment. The policy implies to identify alternative natural renewable energy resources to reduce the burden of cost as well as pollution and to find out answer to the impending energy crisis. The college believes in reducing the consumption of electricity produced by non-renewable resources by switching to renewable energy sources like solar energy for purpose of electricity requirement of the campus. We commit to install and use environment-friendly electrical appliances that help to save energy. The college uses power saving equipment's such as LED lighting, energy efficient equipment's and electronic appliances like CCTVs, Computers etc.

Natural renewable energy sources like solar energy have remarkably reduced the electricity bills of the campus to the negative side.





RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S



INSTITUTE OF COMPUTER & MANAGEMENT RESEARCH

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Affiliated to Savitribai Phule Pune University, Pune
DTE Code: - 6158 University Code: - IMMPO13230

Certified by ISO: 9001-2015, ISO: 14001-2015



Recognized as Green Educational Campus

First Cycle 2023-2028

Hon. Shri. Vilas V. Lande President Hon. Shri. Sudhir V. Mungase Secretary Hon. Shri. Ajit D. Gavhane

Policies:

- To install energy efficient energy lights LED's in entire campus, to lower energy consumption, decrease maintenance costs and to save the energy and expenses.
- To prefer regular use of energy efficient equipment's over conventional equipment's.
- To conduct regular energy audits and follow the instructions and advices given by auditing agency.
- RJSPM's Institute of Computer and Management Research has installed 3 phase solar rooftop power plant of capacity 10 KWP.
- To reduce air pollution in college campus we promote use of bicycles, public transportation and pedestrian-friendly roadways and also we restrict entry of automobiles in college campus.
- To take more initiatives for continuous decrease in energy usage.
- To promote use of recent advanced technology to decrease energy consumption.
- To ensure the accessibility of required resources to accomplish our objectives.
- To actively work with the local organizations in the areas of energy efficiency as well as environment protection. These organizations include Government agencies, Municipal Corporation and affiliated University.
- To give information and guidance opportunities on energy conservation measures.
- To encourage and provide opportunities to employees and students to connect with initiatives for environmental protection.
 - To promote promotional activities and knowledge or environment protection among our students by displaying



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boards and hoardings in the campus for energy conservation.

• To utilize daylight at its maximum extent and turn off unnecessary lights.





ENERGY AUDIT REPORT

of

RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S Educational Campus, Building-B, Dudulgaon, Pune 412 105



Year: 2022-23

Prepared by:

ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411009 Phone: 09890444795, Email: engress123@gmail.com



MAHARASHTRA ENERGY DEVELOPMENT AGENCY



Maharashtra Energy Development Agency

(Government of Maharashtra Institution) Aundh Road, Opposite Spicer College Road, Near Commissionerate of Animal Husbandary, Aundh, Pune, Maharashtra 411067 Ph No: 020-35000450

Email: eee@mahaurja.com, Web: www.mahaurja.com

ECN/2022-23/CR-43/1709

10th May, 2022

CERTIFICATE OF REGISTRATION FOR CLASS 'A'

We hereby certify that, the firm having following particulars is registered with MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA) under given category as "Energy Planner & Energy Auditor" in Maharashtra for Energy Conservation Programme of MEDA.

Name and Address of the firm : M/s Engress Services

Yashshree, 26, Nirmal Bag Society. Near Muktangan English School. Parvati, Pune -411 009.

Registration Category

: Empanelled Consultant for Energy Conservation

Programme for Class 'A'

Registration Number

: MEDA/ECN/2022-23/Class A/EA-32.

- · Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings.
- · MEDA reserves the right to visit at any time without giving prior information to verify quarterly activities performed by the firm and canceling the registration, if the information is found incorrect.
- This empanelment is valid till 09th May, 2024 from the date of registration, to carry out energy audits under the Energy Conservation Programme
- The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereof.

General Manager (EC)



Energy Audit Report: RJSPM's Educational Campus, Building-B, Dudulgaon: 22-23

ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009

Tel: 09890444795 Email: engress123@gmail.com

Ref: ES/RJSPMICMR/22-23/01

Date: 28/2/2023

CERTIFICATE

This is to certify that we have conducted Energy Audit at Rajmata Jijau Shikshan Prasarak Mandal's Educational Campus, Building-B, Dudulgaon, Pune in the year 2022-23.

The College has adopted Energy Efficient Practices:

- Usage of Energy Efficient LED Fittings
- > Usage of Energy Efficient BEE STAR Rated equipment
- > Maximum usage of Day Lighting
- Installation of 10 kWp Roof Top Solar PV Plant.

We appreciate the support of Management, involvement of faculty members and students in the process of making the Campus Energy Efficient.

For Engress Services,

A Y Mehendale,

Certified Energy Auditor

EA-8192

A PUNE *

INDEX

Sr. No	Particulars	Page No
ĺ	Acknowledgement	5
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3	Study of Present Energy Consumption	10
4	Carbon Foot printing	12
5	Study of Usage of Alternate Energy	14
6	Study of LED Lighting	15

Energy Audit Report: RJSPM's Educational Campus, Building-B, Dudulgaon: 22-23

ACKNOWLEDGEMENT

We at Engress Services, Pune, express our sincere gratitude to the management of RJSPM's Educational Campus, Building-B, Dudulgaon, Pune for awarding us the assignment of Energy Audit of their Building-B, Dudulgaon Campus for the Year: 2022-23.

We are thankful to all staff members for helping us during the field Study.



EXECUTIVE SUMMARY

1. RJSPM's Educational Campus, Building-B, Dudulgaon, Pune consumes Energy in the form of Electrical Energy; used for various gadgets, Office & other facilities.

2. Present Energy Consumption:

No	Parameter/ Value	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Total	7810	7.03
2	Maximum	2956	2.66
3	Minimum	0	0.00
4	Average	650.83	0.59

3. Usage of Alternate Energy:

- The Institute has installed a Roof Top Solar PV Plant of Capacity 10 kWp.
- The Energy purchased from MSEDCL is 7810 kWh.
- The Energy Generated by Roof Top Solar PV Plant in 22-23 is 12000 kWh.
- The Total Energy Requirement is 19810 kWh.
- The percentage of usage of Alternate Energy to Annual Energy Demand is 61 %.

4. Usage of LED Lighting:

- The Total Lighting Load is 2.16 kW
- The LED Lighting Load is 0.68 kW
- The % of total Annual Lighting Demand met by LED Lighting is 31.48 %.

5. Assumptions:

- 1. 1 kWh of Electrical Energy releases 0.9 Kg of CO2into atmosphere
- 2. Average Energy generated by 1 kWp Solar PV Plant: 4 kWh/Day
- 3. Annual Solar Energy Generation Days: 300 Nos

6. References:

- For CO₂ Emissions: <u>www.tatapower.com</u>
- For Roof Top Solar Energy generation: www.solarrooftop.gov.in



Energy Audit Report: RJSPM's Educational Campus, Building-B, Dudulgaon: 22-23

ABBREVIATIONS

LED Light Emitting Diode

MSEDCL Maharashtra State Electricity Distribution Company Ltd

kWp Kilo Watt peak kWh kilo-Watt Hour

CO₂ Carbon Di Oxide

MT Metric Ton

RJSPM Rajmata Jijau Shikshan Prasarak Mandal

M B A Master in Business Administration

CHAPTER-I INTRODUCTION

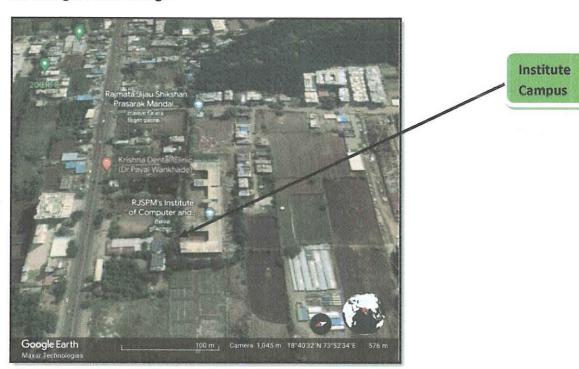
1.1 Objectives:

- 1. To study the Connected Load
- 2. To study present level of Energy Consumption
- 3. To Study the present CO₂ emissions
- 4. To study Scope for usage of Renewable Energy
- 5. To study usage of LED Lighting.

1.3 General Details of Institute: Table No 1:

No	Head	Particulars
1	Name	RJSPM's Educational Campus, Building-B
2	Address	Dudulgaon, Pune 412 105
3	Affiliation	Savitribai Phule Pune University

1.3 Google Earth Image:





CHAPTER-II STUDY OF CONNECTED LOAD

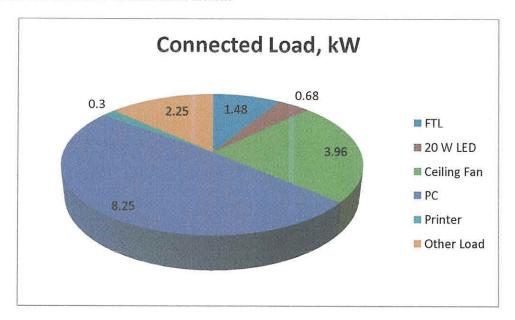
In this chapter, we present the details of various Electrical loads as under

Table No-2: Details of Overall Connected Load:

No	Equipment	Qty	Load, W/Unit	Load, kW
1	FTL	37	40	1.48
2	20 W LED	34	20	0.68
3	Ceiling Fan	55	72	3.96
4	PC	55	150	8.25
5	Printer	2	150	0.3
6	Other Load	15	150	2.25
7	Total			17

We present the same in a PIE Chart as under:

Chart No-1: Details of Connected Load:

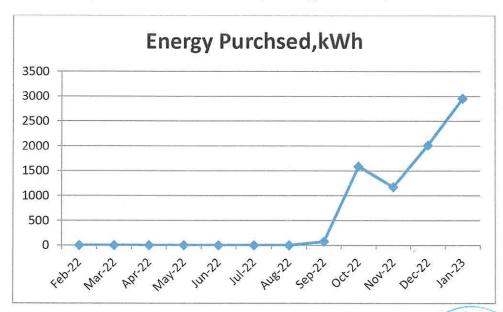


CHAPTER-III STUDY OF PRESENT ENERGY CONSUMPTION

In this chapter, we present the analysis of last year Electricity Bills Table No 3: Electrical Bill Analysis - 2022-23:

No	Month	Energy Purchased, kWh
1	Feb-22	0
2	Mar-22	0
3	Apr-22	0
4	May-22	0
5	Jun-22	0
6	Jul-22	0
7	Aug-22	0
8	Sep-22	75
9	Oct-22	1590
10	Nov-22	1175
11	Dec-22	2014
12	Jan-23	2956
13	Total	7810
14	Maximum	2956
15	15 Minimum 0	
16	Average	650.83

Chart No 2: To study the variation of Monthly Energy Consumption:



Engress Services, Pune

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Page 10

Energy Audit Report: RJSPM's Educational Campus, Building-B, Dudulgaon: 22-23

Table No 4: Various Important Parameters:

No	Parameter/ Value	Total Energy Consumed, kWh
1	Total	7810
2	Maximum	2956
3	Minimum	0
4	Average	650.83



CHAPTER-IV CARBON FOOT PRINTING

4.1 A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities.

In this we compute the emissions of Carbon-Di-Oxide, by usage of the various forms of Energy used by the College for performing its day to day activities

The College uses Electrical Energy for various Electrical gadgets.

4.2 Basis for computation of CO₂ Emissions:

The basis of Calculation for CO2 emissions due to Electrical Energy are as under

1 Unit (kWh) of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere
 Based on the above Data we compute the CO₂ emissions which are being released in to the atmosphere by the College due to its Day to Day operations

4.3 Table No5: Month wise CO2 Emissions:

No	Month	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Feb-22	0	0
2	Mar-22	0	0
3	Apr-22	0	0
4	May-22	0	0
5	Jun-22	0	0
6	Jul-22	0	0
7	Aug-22	0	- 0
8	Sep-22	75	0.07
9	Oct-22	1590	1.43
10	Nov-22	1175	1.06
11	Dec-22	2014	1.81
12	Jan-23	2956	2.66
13	Total	7810	7.03
14	Maximum	2956	2.66
15	Minimum	0	0.00
16	Average	650.83	0.59



Chart No 3: Representation of Month wise CO₂ emissions:

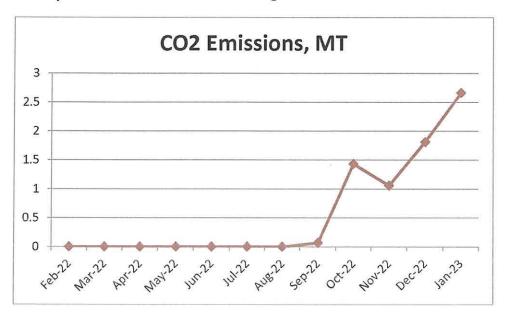


Table No 6: Important Parameters:

No	Parameter/ Value	Energy Purchased, kWh	CO ₂ Emissions, MT
1	Total	7810	7.03
2	Maximum	2956	2.66
3	Minimum	0	0.00
4	Average	650.83	0.59



CHAPTER-V STUDY OF USAGE OF ALTERNATE ENERGY

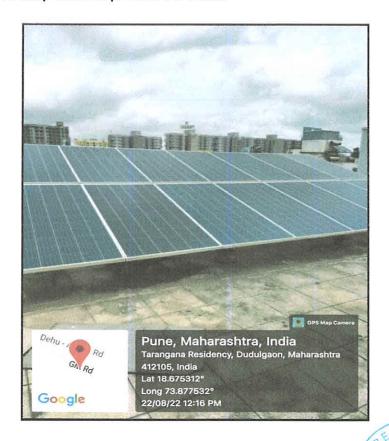
The Institute has installed Roof Top 10 kWp Roof Top Solar PV Plant.

In the following Table, we compute the Annual Energy requirement met by Alternate Energy.

Computation of % Usage of Alternate Energy to Annual Energy Demand: Table No 7:

No	Parameter	Value	Unit
1	Energy Purchased from MSEDCL	7810	kWh/Annum
2	Installed Solar PV Capacity	10	kWp
3	Average Daily Energy Generated	4	kWh/kWp
4	Annual Working Days	300	Nos
5	Annual Energy Generated	12000	kWh/Annum
6	Annual Total Energy Requirement = (1) + (5)	19810	kWh/Annum
7	% of Annual Energy Requirement met by Solar PV = (5)*100/(6)	61	%

Photograph of 10 kWp Roof Top Solar PV Plant:



CHAPTER-VI STUDY OF LED LIGHTING

In this Chapter, we present the usage of LED Lighting.

We compute the percentage of usage of LED Lighting to Total Lighting Load.

Table No 8: Computation of % of Usage of LED Lighting to Total Lighting Load:

No	Particulars	Value	Unit
1	Qty of 40 W FTL Lights	37	Nos
2	Energy requirement of FTL Fitting	40	W
3	Demand of 47 Nos FTL Fittings	1.48	kW
4	Qty of 20 W LED Lights	34	Nos
5	Energy requirement of 20 W LED Fitting	20	W
6	Demand of 24 Nos FTL Fittings	0.68	kW
7	Total Lighting Load = 3+6	2.16	kW
8	Total LED Lighting Load =6	0.68	kW
9	% of Usage of LEDs to Total Lighting Load= (8) *100 /(7)	31.48	%





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Green campus initiatives







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Green campus Initiatives

Sr.	Name of Activity
No.	
1	Policies for environmental and green campus initiatives
2	Green campus certificates
3	Tree plantation activities
4	Restricted Entry of Automobiles photos
5	Campus cleaning activities
6	Automatic rain gauge machine (ARG)









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POLICIES FOR ENVIRONMENTAL AND GREEN CAMPUS INITIATIVES

Environmental and Green campus:

Rajmata Jijau Shikshan Prasarak Mandal's Institute of Computer and Management Research has taken initiatives to implement eco-friendly practices in the campus. A green campus is a concept where continuous efforts are taken to establish environmentally sustainable and eco-friendly practices. RJSPM's Institute of Computer and Management Research is regularly engaged in a variety of eco-friendly practices in ourcampus such as tree plantation, installation of solar energy panels etc. Efforts are being made to develop the campus on green concepts, particularly concentrating on water conservation, use of alternative and renewable sources of energy, use of different energy conservation methods, solid waste management, E-waste management etc.

Scope of the Policy:

The Green Campus, Energy and Environment Policies will develop exciting new practices that encourage students in creating positive change.

Green campus is achieved by making significant progress in the campus in collaboration with community. The Institute has performed various protocols and programmes under green campus initiatives

Objectives of the green campus program:

- To protect and preserve ecological systems and natural resources within the campus.
- To incorporate environmental initiatives into policies, plans and programmes for social development and outreach activities.
- To continuously expand our contribution to climate protection and adaptation to climate change and to the conservation of comprehensive resources.





• Effective use of conventional sources of energies for daily power needs, appropriatedisposal and handling of different





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types of wastes etc.

- Everyone at the RJSPM's Institute of Computer and Management Research will work together to encourage a beliefs of self-sustainability and make the whole campus environmental friendly.
- To constantly improve the effective use of all natural resources like energy, water etc.
- To decrease consumption and the amount of waste produced as well as encourage forrecovering and recycling waste where possible.

Major points focused under policies are:

- Clean campus initiatives
- Restricted entry of automobiles in college campus
- Pedestrian –friendly pathways
- Availability of sufficient dustbins for collection of different types of garbage
- Organization of campus cleaning activities and programmes
- Environment promotional activities and programmes
- Landscaping with trees and plants
- Water conservation system
- Availability of sanitary napkin disposal equipment
- Solid waste management processes
- E-waste management processes





- Environment-centric student societies and department activities
- Green Audit
- Energy Audit



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RJSPM's Institute of Computer and Management Research actively coordinates cleanliness activities in the college campus and beyond the campus by organizing different activities like Swachh Bharat Abhiyan. The entry of automobiles inside the campus is restricted to reduce environmental pollution of campus. We encourage our students and staff to use public transportation. Single—useplastic stuffs such as plastic bottles, bags, spoons, straws and cups are banned completely and awareness is created among all teaching, non-teaching staff and students. Landscaping initiatives are best methods to build awareness around the environment. The landscape of trees and plants provide the students and staff with clean and cool air and a soothing environment.

The Municipal Corporation's water supply and bore well are the sources of water supply to the college campus. Our college is aware about the water conservation measures and problems associated with water shortage and therefore we follow the practices for water conservation and efficient use of available water. Water tanks are constructed in campus for proper storage of water. Water is pumped into storage tanks located at different places in the campus. Overhead storage tanks are also available.

The water is distributed through pipe networkin college campus. Maintenance of water bodies and distribution system is periodically carried out to avoid the loss of water by leakage. Some of the common solid wastes include—daily garbage comprising of white used papers, card sheets and materials, rubber waste, plastics, cardboard materials, etc. These are collected in dustbins placed in the campus and disposed in ecofriendly manner on daily basis. Separate dustbins are kept in campus for dry and wet waste. The glassware waste is collected and disposed properly. For disposal of papers "Recyclers India Shredding Services" an agency in Pune is engaged for shredding services. We collect E-waste and dispose it properly with the help of agency "Kuldeep E-waste disposals".

The college aims to regularly conduct a Green Audit of our college campus to assess our strengths and weaknesses and to further our goals of long-term sustainability. A green audit is a useful tool to determine how and where most energy or water or resources are being used. An Energy Audit is conducted and required to further reduce its carbon footprint. The importance of reducing energy consumption cannot be overstated. The energy audit, with its specialized tools will identify wastage of energy. Such an inspection often reveals several different flaws which cause a loss of significant amounts of energy which the college will not be able to detect.







INSTITUTE OF COMPUTER & MANAGEMENT RESEARCH

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Hon. Shri. Vilas V. Lande President Hon. Shri. Sudhir V. Mungase Secretary Hon. Shri. Ajit D. Gavhane Treasurer

Certificate of Registration

This is to Certify that Environmental Management System of

RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S EDUCATION CAMPUS

INSTITUTE OF COMPUTER & MANAGEMENT RESEARCH (MBA), COLLEGE OF PHARMACY (B. PHARM)
INSTITUTE OF PHARMACY (B. PHARM), SCHOOL OF NURSING (CVM), DNYANBHAKTI
JUNIOR COLLEGE (ACS) DNYANBHAKTI INTERNATIONAL SCHOOL.

GAT NO. 101/102, MOSHI ALANDI ROAD, DUDULGAON, PUNE- 412105, MAHARASHTRA, INDIA.

has been assessed and found to conform to the requirements of

ISO 14001:2015

for the following scope:

PROVISION OF EDUCATIONAL SERVICES IN MBA (SPPU), B.PHARM.(SPPU),
D.PHARM.(MSBTE), GNM (MSBNPE), XI, XII, ARTS, COMMERCE & SCIENCE
(HSC BOARD, PUNE) AND PRE-PRIMARY, PRIMARY & SECONDARY
EDUCATION (SSC/CBSE)

Certificate No : 201EFE45

Initial Registration Date : 06/10/2020 Issuance Date : 06/10/2020

Date of Expiry : 05/10/2023

1st Surve. Due : 06/09/2021 2nd Surve. Due : 06/09/2022

1. Jahr

Director





ACCREDITED
Management Systems
Certification Body
MSCB-119



AQC MIDDLE EAST FZE.

Head Office: E1-1401 E Ambre Gem Tencer, Sheikh Khaifa Bin Zagad Road, 2, Apman, UAE. e-mail: infelit ageneral ann., Key Location: 403, Madhabon Building, SS. Neben Place, New Delhi-110019. India. "Sailing of the Corollane is only to macroful compilation of movellines and/one or before of the date. (In our movellines and/o to see

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Hon. Shri. Vilas V. Lande President

Hon. Shri. Sudhir V. Mungase Secretary

Hon. Shri. Ajit D. Gavhane Treasurer

This is to Certify that Quality Management System of

RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S EDUCATION CAMPUS

INSTITUTE OF COMPUTER & MANAGEMENT RESEARCH (MIHAL COLLEGE OF PHARMACY (IL PHARM) INSTITUTE OF PHARMACY (IL PHARM), SCHOOL OF NURSING (GNM), DNYANBHAKTI JUNIOR COLLEGE (ACS) DNYANBHAKTIINTERNATIONAL SCHOOL

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Certificate No : 201QFS37

: 06/10/2020 Initial Registration Date Issuance Date : 06/10/2020 : 05/10/2023 Date of Expiry

1st Surve. Due : 06/09/2021 2nd Surve. Due : 06/09/2022

Director







AQC MIDDLE EAST FZE.

Head Office: E1-1401 E. Amber Gem Tineer, Sheikh Khalifa Bin Zayyed Road, 2, Ajman, UAE. e-mail: infoite agreemed com, Key Location, 403. Mailindom Building, 55, Nebrus Place, New Delhi-H0019. India.

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DIRECTOR A JAM SHIKSHAN PRASARAK MANDAL'S INSTITUTE OF COMPUTER MANAGEMENT RESEARCH





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Hon. Shri. Sudhir V. Mungase Secretary

Hon. Shri. Ajit D. Gavhane Treasurer



Certificate of Registration Rajmata Jijau Shikshan Prasarak Mandal's EDUCATION CAMPUS

Institute of Computer & Management Research (MBA) Institute of Pharmacy (D. Pharm), College of Pharmacy (B.Pharm) School of Nursing (GNM), Dnyanbhakti Junior College (ACS) Dnyanbhakti International School

Gat No. 101/102, Moshi Alandi Road, Dudulgaon, PCMC, Pune- 412 105, Maharashtra, India.

GREEN EDUCATION CAMPUS

has been assessed by IPQC as conforming to the requirements of IPQC Green Education Campus Certification. The following Education Campus are fulfilling the requirements of IPQC Green Education Campus Certification

Scope of Registration For Preventing Pollution, Conserving Natural Resources and Complying Environmental Regulatory Requirements.

Certificate Date: 08 October 2020 Valid Until: 07 October 2023

CERTIFICATE NO.: 1571552586





UTHORISED SIGNATORY



IPQC Certification (info@ipqc.co.uk/www.ipqc.co.uk)

Corporate Office: 7, Merry Terrace Woking, London FU213EH, UK
Validity of this certificate is subject to minut surveillance andre to be done successfully on an before that date of such timesse if
surveillance and it is not conducted, this certificate shall be suspended/withdraway

The validity of this certificate can be verified at www.pqc.co.uk.
This certificate remains the property of PQC Certification and shall be returned immediately on request.



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Tree Plantation











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Cleaning Activities in RJSPM's Camps









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Automatic Rain Guage machine (ARG)





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Automatic rain gauge system installation



ARG Installation news







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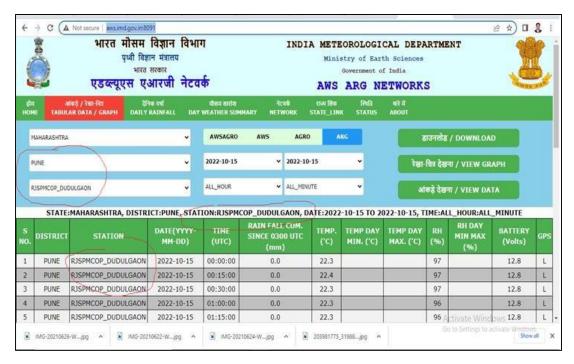
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Screenshot of IMD website

Indian Meteorological Department's Automatic Rain Guage machine (ARG) has been installed by the Indian Meteorological Department in Dudulgaon Educational Complex. Information about temperature, humidity and prejudice in the area will be seen on the website of the weather department.

Automatic Rain Guage machine was installed at Rajmata Jijau Educational Complex under the guidance of Hon. Dr. Hosalikar, Scientist IMD Pune department run by the Ministry of Earth Science. This machine was inaugurated by Principal of College of Pharmacy.

This real- time weather information will be useful for all factors such as district government institutions, disaster management, students, weather forecasting, as well as agriculture sector.



