

Rayat Shikshan Sanstha's
Chandraroop Dakle Jain College of Commerce, Shrirampur.
Dist-Ahmednagr.

Green Campus Policy

Sr.No	Particulars	Details
1	Brief Description	Policy will make sure to keep the campus eco-friendly
2	Scope	College Campus
3	Approved by	Head of the Institution / IQAC
4	Objective	<ul style="list-style-type: none">• To Promote sustainability• To inculcate eco-friendly practices among all stakeholders
5	Policy Statement	Eco- Friendly practices will incorporate sustainability and conservation among all stakeholders which will result in making campus green and pollution free.
6	Procedure	<ul style="list-style-type: none">• Recycling of waste water and solid waste in the campus.• Observation of No vehicle day in every month.• Promotion of use of cycle, battery powered vehicle, local transport and carpooling to minimize fuel consumption.• Heavy sound vehicles banned in the campus.• Ban of use of plastic in campus.• Promotion of paperless documentation. Use of vrudhi software for paperless documentation.• Landscaping with various plant species in the campus.



Principal,
C.D.Jain College of Commerce,
Shrirampur.



Rayat Shikshan Sanstha's
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Environment and Energy Usage Policy

Sr.No	Particulars	Details
1	Brief Description	Policy will ensure to improve the use of conventional energy resources and promoting sustainable energy resources.
2	Scope	The college Campus
3	Approved by	Head of the Institution / IQAC
4	Objective	To sensitize all stakeholders towards sustainable energy usage.
5	Policy Statement	Implementation of environment and energy usage policy will make institute energy sustainable by reducing carbon emission.
6	Procedure	<ul style="list-style-type: none">• Use of LED bulbs in campus.• Use of solar and wind energy plant for generating energy.• Conducting Environment, Energy audit.• Display of Signboard implying energy conservation message in and around campus.• Parking will be kept free for battery powered vehicle.• Electrical and Electronic devices should be kept off when not in use.• Regular maintenance of high end equipment.



Principal,
C.D.Jain College of Commerce,
Shrirampur



**Rayat Shikshan Sanstha's
Chandraroop Dakle Jain College of Commerce, Shrirampur.
Dist - Ahmednagar**

The Green Campus, Energy and Environment Policy

Context:

The relationship between C.D.Jain College of Commerce and nature is a long and enduring one, something that students and staff of the college are aware of. C.D.Jain College of Commerce is very often recognized as the college with huge rocks jutting from the concrete giving it a completely natural and organic facade. Since 1962, the college has always had sustainable initiatives at the core of all activities. The rest of the campus can be categorized as playgrounds, lawns and gardens. A huge area is left in its natural form and acts as a natural habitat

Scope of the Policy:

The Green Campus, Energy and Environment Policies will develop exciting new co-curricular and extracurricular practices that encourage students to take the lead in creating positive change. These initiatives call for a thorough review of all infrastructural, administrative functions from the standpoints of energy efficiency, sustainability and the environment.

The focus areas of this policy are:

- Clean Campus Initiatives
- Landscaping Initiatives
- Clean Air Initiatives
 - ◆ Smoking Free Campus
- Infrastructure
 - ◆ Solar Power Plant
 - ◆ Installation of Energy Efficiency Equipment
 - ◆ Water Conservation through Rainwater Harvesting System
- Waste Management processes
 - ◆ Solid Waste Management
 - ◆ Liquid Waste Management
 - ◆ E-Waste Management
- Awareness Initiatives
- Environment-centric Student Societies and Department Activities
- Green Audit
- Energy Audit
- Plastic-Free Campu

Objectives of the Policy:

- To protect and conserve ecological systems and resources within the campus.
- To ensure judicious use of environmental resources to meet the needs and aspirations of the present and future generations.
- To integrate environmental concerns into policies, plans and programmes for social development and outreach activities.
- To work with all stakeholders and the local community to raise awareness and seek the adoption of environmental good practice and the reduction of any adverse effects on the environment.
- To continuously improve our contribution to climate protection and adaptation to climate change and to the conservation of global resources.
- To continuously improve the efficient use of all resources, including energy and water, and to reduce consumption and the amount of waste produced, recovering and recycling waste where possible.
- To make the campus plastic free.
- To conduct environmental and energy audits from time to time.
- To minimize the use of paper in administration through having policy for E-governance.

Policy:

Clean Campus Initiatives

C.D.Jain College of Commerce had pledged to actively coordinate cleanliness activities in the college and beyond the campus in accordance with the vision of Swachh Bharat Abhiyan. It commits to continue with this Programme. The broad vision is as follows:

1. Generating mass awareness on cleanliness and hygiene amongst students and staff members by holding regular cleanliness drives. The idea is to motivate them to contribute in a proactive manner.
2. Activities under 'Swachh Bharat Abhiyan' will be a key component of all the community work being done by NSS, NCC and Green Society volunteers of the college.
3. Staff Members will be encouraged to participate in the cleanliness drive in the college campus.
4. Events such as poster and slogan competitions, essay writing, , speeches, skits on 'Swachh Bharat' will be organised.
5. Rallies on themes connected with 'Swachh Bharat Abhiyan' in and around the college campus will be conducted to create mass awareness.
7. Remove all kinds of waste material like broken furniture, unusable equipment etc.
8. Administer of the pledge by students and staff members to maintain cleanliness of the college campus and its surrounding areas on an annual basis.
9. Commit to manage waste and maintain clean campus especially during college events.

Landscaping Initiatives

The campus landscape, like its buildings, can be seen as the physical embodiment of a college's values. It is a vital part of the life of a campus, providing space for study, play, outdoor events, relaxation and aesthetic appreciation. Green campus landscapes also manage runoff, help recharge groundwater, and clean and cool the air on campus. The landscape serves as a visual representation of the campus community's commitment to sustainability. As campus landscapes are so visible and accessible, landscaping initiatives are a great way to build awareness around the environment.

The college commits to enriching this healthy habitat and maintaining the symbiotic relation of the institution with nature by

- Organizing annual tree plantation drives
- Encouraging student societies to hold tree planting events

Clean Air Initiatives

We encourage our students and staff to use public transportation. We encourage carpooling to college, an activity that will control air pollution and strengthen social interaction. The entry of automobiles inside the campus is restricted to discourage the use of private vehicles.

Our campus is also located near the rural area, an area identified as the Green Lungs of shrirampur. For this reason, we feel responsible to maintain our green cover. The abundant natural landscape not only cleans the air on campus but also becomes an extension of the green lungs of the city.

◆ Smoking Free Campus

In compliance with the framework provided by the National Tobacco Control Programme (NTCP) 2007-2008, the college prohibits smoking and the use of other tobacco products. As a step in this direction, smoking and use of tobacco in and around the campus is strictly prohibited. The anti-smoking committee of the college ensures enforcement of the anti-smoking policy.

Infrastructural Initiatives

◆ Renewable Sources of Energy

C.D.Jain College of Commerce is dedicated to minimize and sustainably manage its use of electricity. The college believes in reducing the consumption of electricity produced by non-renewable resources by switching to clean energy sources like solar energy for purposes like lighting the campus.

◆ Energy Saving and Energy Efficient Equipment

We commit to install environment-friendly electrical appliances that save energy and reduce wasteful inefficiencies. The college believes in using cleaner energy such as LED lighting.

◆ Water Conservation through Rainwater Harvesting System

C.D.Jain College of commerce has committed itself to this effort to replenish the groundwater table by practicing rainwater harvesting. This practice helps in the replenishment and recharge of the groundwater.

Waste Management Processes

C.D. Jain College of commerce strives to have a minimal impact on the environment and is dedicated to reduce and manage the waste generated by the college campus. The following specific procedures will be undertaken to ensure college contribution in protecting the environment.

◆ Solid Waste Management

With its aim to provide holistic education that also has a positive impact on the Environment, the college will adopt practices that will mitigate the generation, and manage solid waste through the following methods:

- Collect paper waste produced on campus and collaborate with scrap dealers for recycling.
- Reduce solid waste by developing a technology-centric Teaching and administrative model.
- Reduce use of paper by supporting digitization of attendance and internal assessment records.
- Reduce requirement of printed books by updating the e-books and e-journals collection of the college library.
- Encourage the students and teachers to use emails for assignment submissions.
- Take initiatives to spread awareness amongst students about
 - ✓ Food wastage and ways of minimizing it
 - ✓ Minimizing the use of packaged food
 - ✓ The habit of reusing and recycling non-biodegradable products
 - ✓ Organizing workshops for students on solid waste Management.

◆ Liquid Waste Management

- Maintain leak proof water fixtures.
- Minimize the use of water by constructing more Indian style toilets Instead of western style toilets.
- Continued employment of a caretaker to take immediate steps to stop any water leakage through taps, pipes, tanks, toilet flush etc.
- Prevention of release and mixing of oil from the college canteen liquid waste in the municipal drainage system by use of Grease trap mechanism..
- Reuse of wastewater generated by the Reverse Osmosis (RO) system in washrooms.

◆ E-Waste Management

C.D.Jain College of Commerce ensures that its usage of technology and generation of e-waste does not impact the environment. For this purpose, the college plans to strive towards:

- More provisions for the disposal of the institutional e-waste.
- Collaboration with e-waste recycling companies to get electronic waste recycled.
- Awareness amongst students about reduction of e-waste and Environment friendly disposal practices for e-waste.
- Encouraging department and society level activities pertaining to e-waste management.

Awareness Initiatives:

Outreach and education are of utmost importance so that all members of the campus community may value the objectives of the policy and aid in its implementation. This is why C.D. Jain College of Commerce supports and encourages awareness campaigns, seminars, workshops, conferences and other interactive sessions to facilitate effective implementation of the Green Campus, Energy and Environment policies.

Environment-centric Student Societies and Department Activities

C.D.Jain College of Commerce encourages all the departments and specific student societies like Green society, NSS, NCC and Students welfare department to organize events, competitions and training sessions that will bring about positive environmental changes at the grass root level. The college supports departments and student societies in moulding the students into active agents of environment protection and conservation.

Conduct Green Audit

The college aims to regularly conduct a Green Audit of our college campus to assess our strengths and weaknesses 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. The college can then consider how to implement changes and make savings. It can determine the type and volume of waste. Recycling projects or waste minimization plans can be adopted. It will create health consciousness and promote environmental values and ethics. It provides a better understanding of the impact of eco- friendly practices on campus. Green auditing will promote financial savings through reduction of resource use. It is imperative that the college evaluate its own contributions toward a sustainable future.

Conduct Energy Audit

An Energy Audit to be conducted as and when 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. These flaws often have easy and affordable solutions and provide significant savings.

Plastic-Free Campus

C.D.Jain College of Commerce has been observing most of its duties in terms of solid waste management since its inception. In view of the Government of India's resolution to ban all single use plastics due to the hazardous impact of plastic use and pollution, the college administration strictly bans the use of single use plastics in its premise to make it a 'Plastic Free Campus'



Principal,

C.D.Jain College of Commerce,
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Notice

Date :- 22/06/2020

Entry Restriction to Heavy Noise Vehicles

Noise pollution is causing significant environmental problem everywhere. Movement of heavy noise vehicles, pressure horns and defective silencer noises in the campus creates the noise pollution and disturb the classes. Keeping this in mind, college authority invoked to ban movement of heavy sound vehicle in the campus for all stakeholders, staff and students.

All are requested to be the part of this awareness campaign. Your co-operation is highly appreciated.



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Notice

Date :- 22/06/2020

Free Parking for Battery Powered Vehicle and Bicycle

We all are aware of the problems of pollution arising due to usage of petrol and diesel vehicles. The exhaust gases from the cars and bikes are increasing the problem of asthma, stress and also add to greenhouse effect. We can take a step for suitable environment by using bicycles and battery powered vehicles. The college administration has facilitated Free Parking for bicycles and vehicles in college campus.

This will help to create awareness among all stakeholders and students as well as balance the environment to some extent.



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Notice

Date :- 06/07/2020

Ban on Plastic

Now days, mother earth is facing many environmental concerns, plastic pollution being one of them. As well all know that plastic bags are non- biodegradable and it pollutes our environment very badly. With the goal to make our college campus Plastic Free, Plastic Ban and Awareness board are displayed in the campus.

To be a step towards green and clean campus, all stakeholders, staff members and students are hereby informed that the use of Plastic **Bag is STRICTLY** banned in the campus.

Your co-operation is highly appreciated



Principal,
C.D.Jain College of Commerce,
Shrirampur



Green Initiative Photo's

Green Campus Photo's



Plumbago Zeylanical



Bauhinia racemosa



Boswellia serrata



Cynodon Dactylon





JM99+RXV, Siddharth Nagar, Maharashtra 413709, India
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Cassia Tora



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Rhizophora mucronata



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Butea monosperma



JM99+RXV, Siddharth Nagar, Maharashtra 413709, India
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Albizia lebeck





Barleria Montana



Oxalis Corniculata





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Pichkari (Spathodea Campanulata)



JM99+RXV, Siddharth Nagar, Maharashtra 413709, India
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Rhododendron



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Ashoka



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Spathodea Campanulata



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Tecoma capensis



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Chamaecyparis



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Pichkari





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Photinia Glabra



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Plumeria rubra





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Alstonia scholaris



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Pichkari (Spathodea Campanulata



JM99+RXV, Siddharth Nagar, Maharashtra 413709, India

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19.619795°

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GMT 05:48:11 AM

Longitude
74.66987166666667°

Altitude 540.7 meters

Monday, 23-03-2021

Ceiba pentandra





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Mango tree



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Hibiscus rosa - sinensis



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Ligustrum Lucidum



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Alstonia scholaris





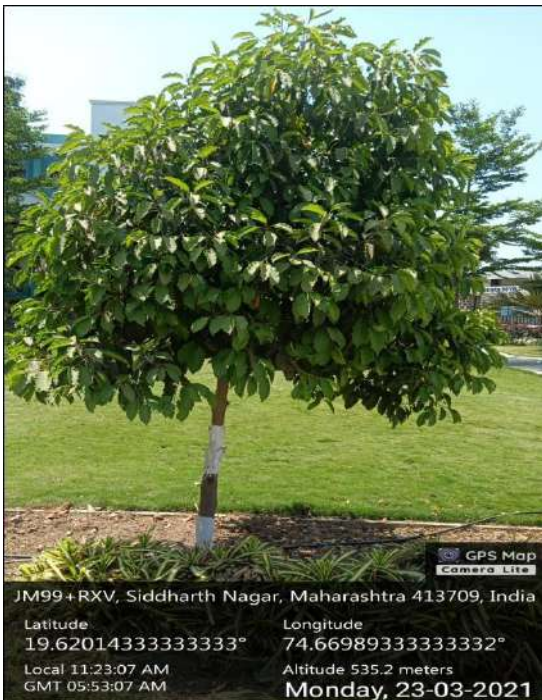
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Alstonia scholaries



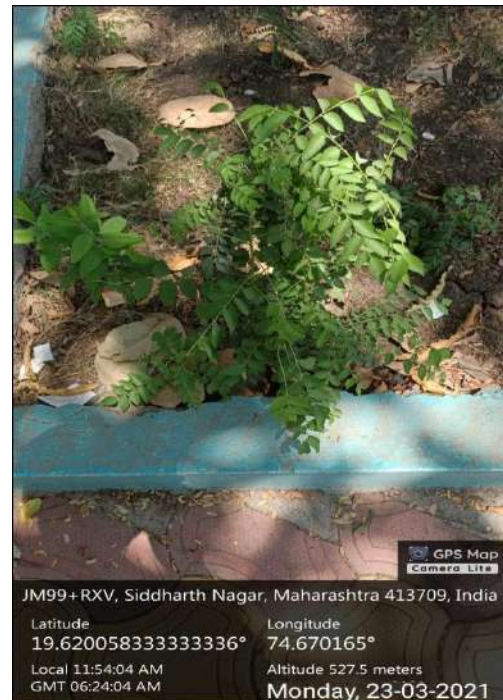
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Ligustrum Lucidum



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Murraya koenigil





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Schinus moll



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Ashoka and Narial



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Catharanthus roseus



JM99+RXV, Siddharth Nagar, Maharashtra 413709, India
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Quercus virginiana





GPS Map
Camera Lite
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Murraya koenigii



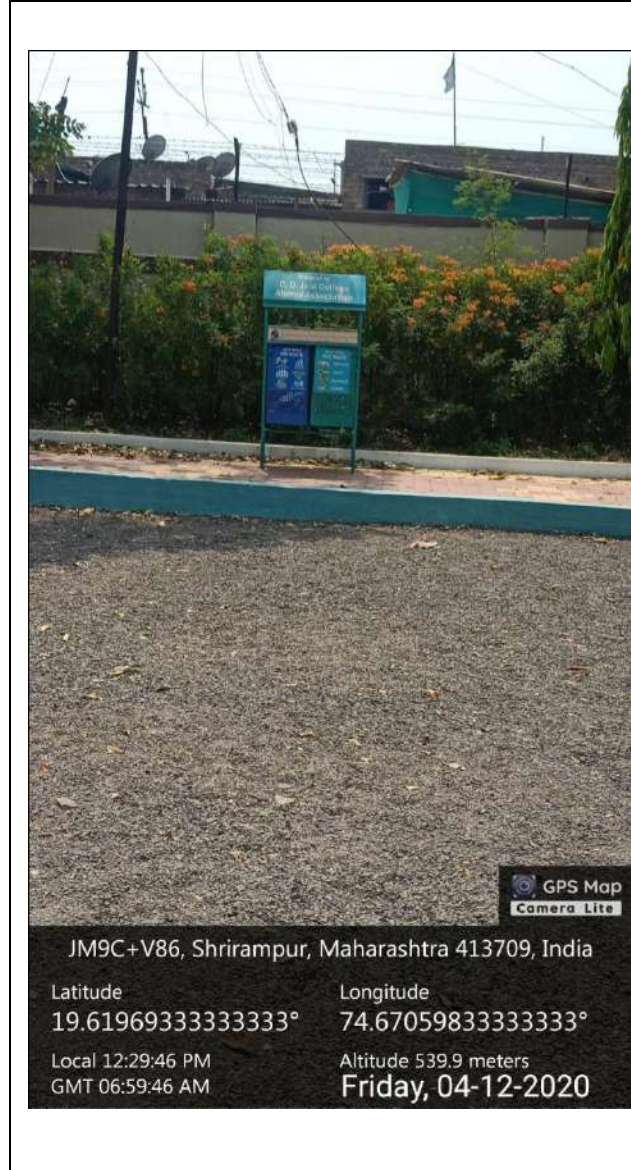
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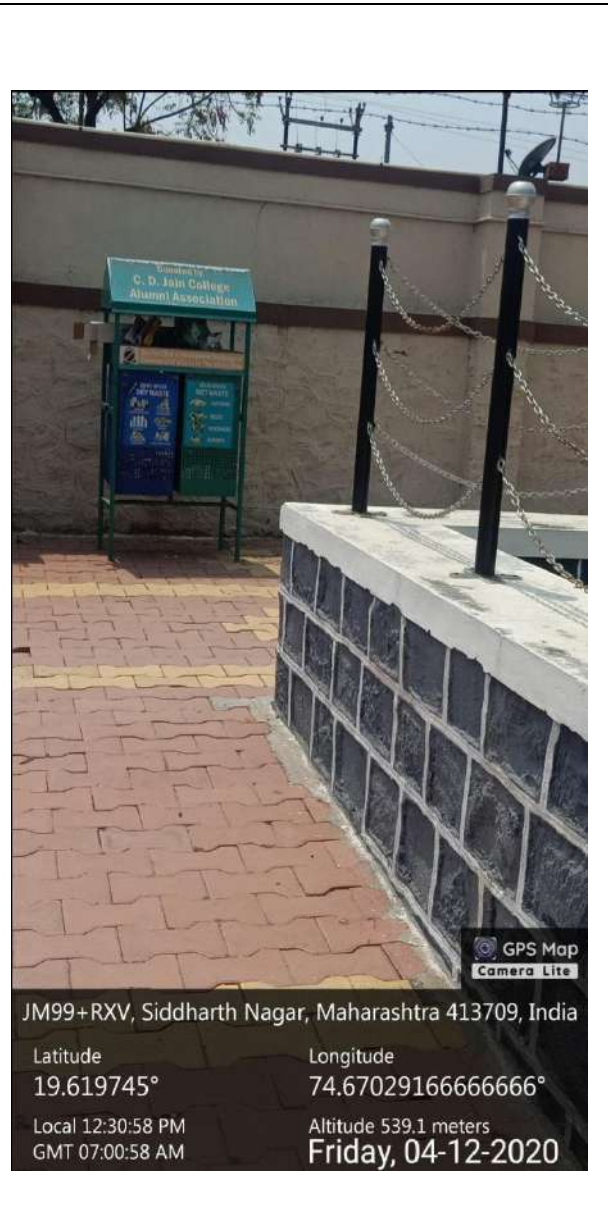
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Waste Management



Waste Management



Pedestrian Friendly Roads



GPS Map
Camera Lite

JM99+RXV, Siddharth Nagar, Maharashtra 413709, India

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GPS Map
Camera Lite

JM99+RXV, Siddharth Nagar, Maharashtra 413709, India

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Battery powered vehicles



GPS Map
Camera Lite

JM99+QVC, Siddharth Nagar, Maharashtra 413709, India

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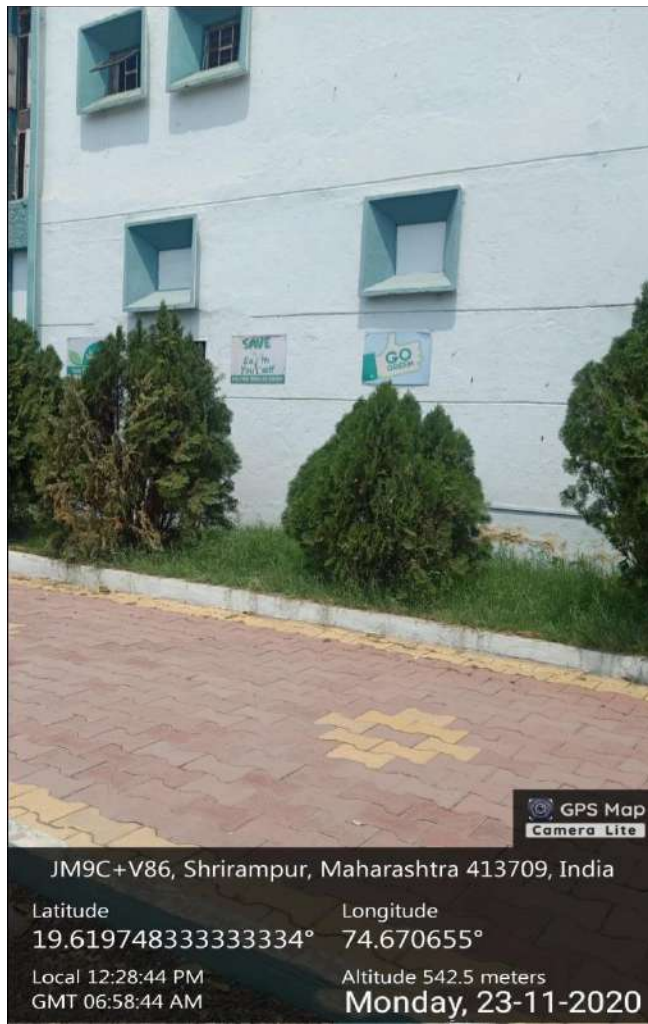
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Use of Cycles





Landscaping with trees and plants



GPS Map
Camera Lite

JM99+RXV, Siddharth Nagar, Maharashtra 413709, India
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GMT 05:52:59 AM **Monday, 22-03-2021**



GPS Map
Camera Lite

JM99+RXV, Siddharth Nagar, Maharashtra 413709, India
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GPS Map
Camera Lite

JM99+RXV, Siddharth Nagar, Maharashtra 413709, India
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GPS Map
Camera Lite

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Wind and Solar Energy



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GMT 06:56:22 AM **Monday, 15-03-2021**



Solar Energy in College



GPS Map
Camera Lite

JM99+RXV, Siddharth Nagar, Maharashtra 413709, India

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GPS Map
Camera Lite

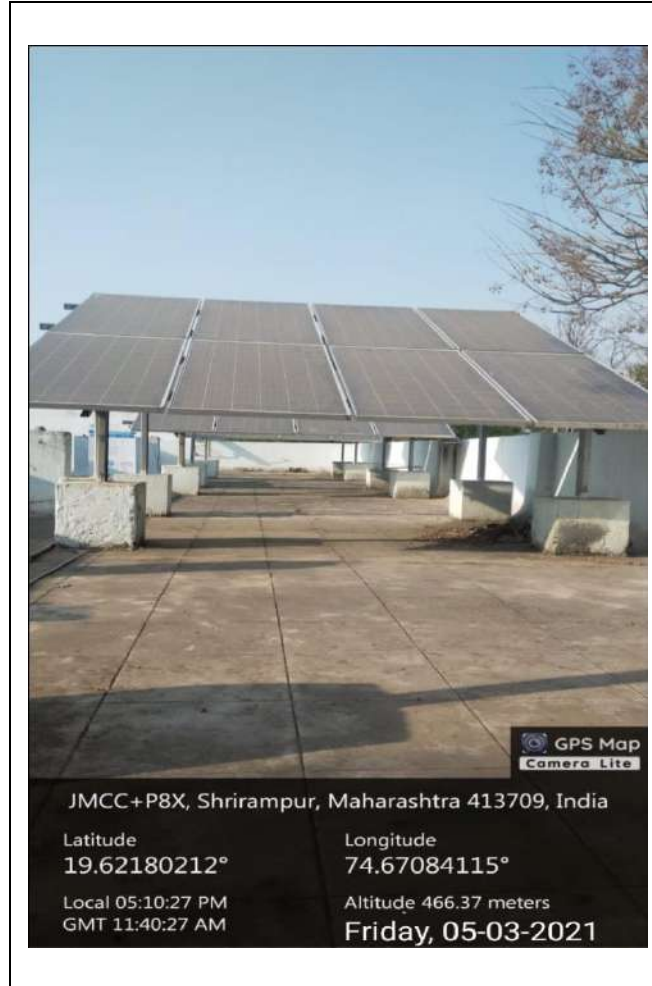
JM99+RXV, Siddharth Nagar, Maharashtra 413709, India

Latitude 19.619826666666665° Longitude 74.67022°

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GMT 07:02:01 AM **Monday, 15-03-2021**



Solar Energy in Girls Hostel



Solar Energy in Administrative Building



GPS Map
Camera Lite

Sidharth nagar ward no.1 Shriram, Shrirampur,
Maharashtra 413709, India

Latitude
19.619995°

Longitude
74.66956°

Local 11:17:55 AM
GMT 05:47:55 AM

Altitude 546.3 meters

Monday 15-03-2021



GPS Map
Camera Lite

Sidharth nagar ward no.1 Shriram, Shrirampur,
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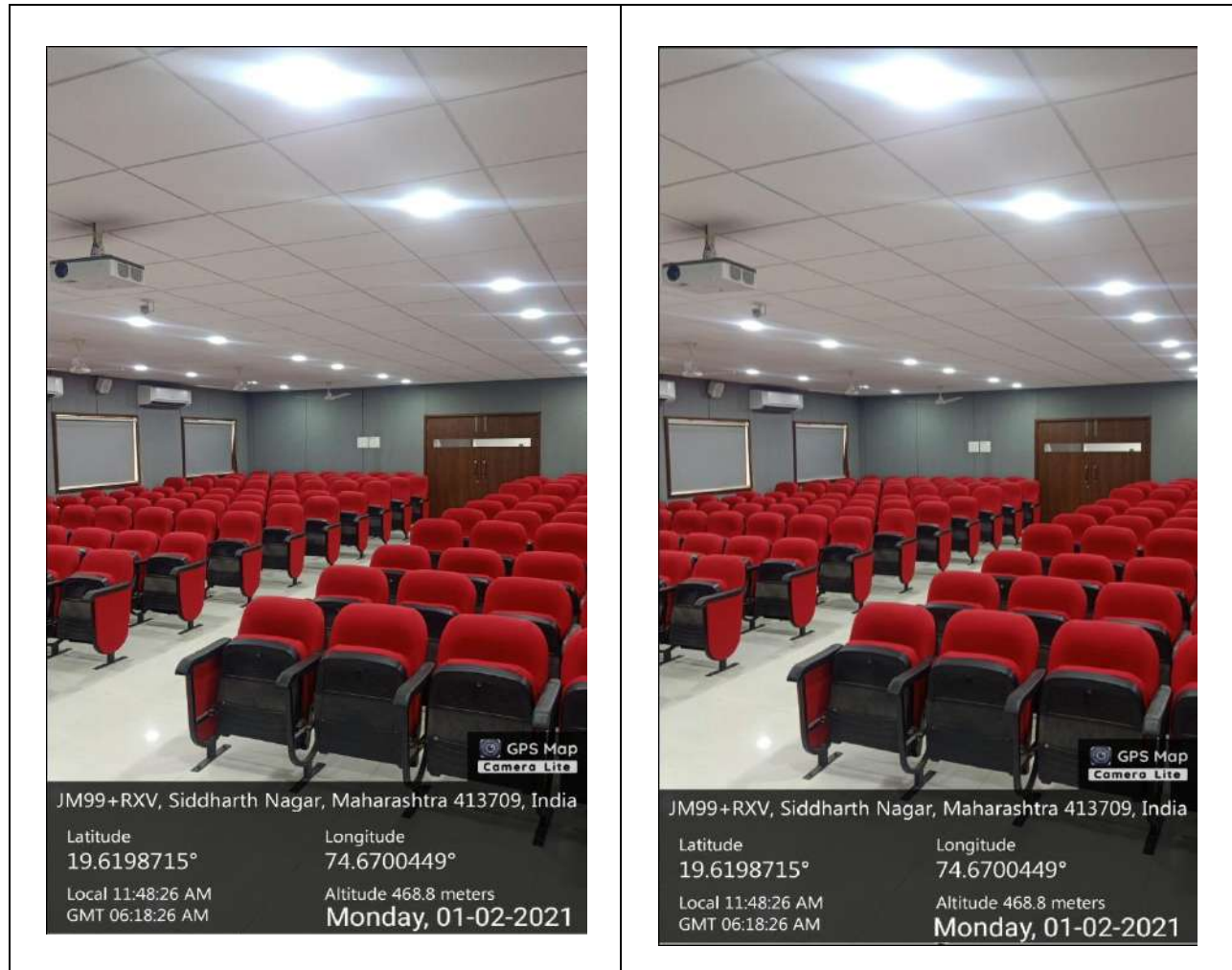
Local 11:18:32 AM
GMT 05:48:32 AM

Altitude 546.5 meters

Monday 15-03-2021



Use of LED bulbs/ power efficient equipment





GREEN AUDIT REPORT



Rayat Shikshan Sanstha's

CHANDRAROOP DAKLE JAIN COLLEGE OF COMMERCE,
SHRIRAMPUR, DIST. - AHMEDNAGAR

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Introduction: Facilities

1.1 About Sanstha :

The Rayat Shikshan Sanstha, Satara is pioneer in the field of rural development through education. Today it occupies a prominent place on the educational map not only of Maharashtra but also of India. The Sanstha was founded by Late Padmabhushan Dr. Karmaveer Bhaurao Patil, popularly known as 'Karmaveer Anna'. He followed the footsteps of Mahatma Jyotiba Phule and Rajashree Chhatrapati Shahu Maharaja, firmly believed the education is the panacea for the social and economical problems of the society.

Presently the Sanstha runs 41 colleges, 434 secondary Schools, D.Ed Colleges, 21 Primary Schools, 36 Pre-Primary Schools, 74 Hostels, 8 Ashramshalas and 6 I.T.I. These institutions are wide spread in 14 district of Maharashtra and 1 District of Karnataka. Over 4 lakh students pursue their education in the Sanstha. It has a plethora of about 19,000 dedicated employees.

The Sanstha stands for the symbol of the aspirations of the common people i.e. "Rayat". "Education through Self-help" is our motto and the Sanstha strongly advocated the dignity of labour. Like the symbol, "The lush green banyan tree", the Sanstha has stood the test of time and is ever flourishing.

1.2 About College :

Our college popularly known as "C. D. Jain College" is one of the most flourishing branch of Rayat Shikshan Sanstha. It is located at Shrirampur. The college complex is located on a 16 acre plot, with a fully built up space of about 2226.91 Sq.m. It offers all modern amenities required for all round development of the student such as hostels for boys and girls, library, reading hall, ladies room, seminar hall, audio visual library, computer and internet facility, gymnasium, playgrounds, staff quarters, etc. Apart from graduate and post graduate courses in commerce, the college also offers CPT/CS entrance guidance; MS-CIT and other computer courses are also conducted by the college. The college has a well-equipped and well furnished computer department with BCA and MCA programme. The college also has a Research Centre with M.Phil

and Ph.D. Programmes. We have established our brand as, “The Complete Commerce College.” Recently college has been re-accredited and awarded ‘A’ Grade with CGPA 3.16. The college has also certified for ISO 9001:2008.

1.3 Our Vision :

“To provide quality business education, accessible and affordable to the rural masses and to promote research and entrepreneurship for the development of rural area.”

1.4 Our Mission:

The mission statement of the college reflects our endeavour to translate the vision in to reality. Our mission is:

1. To motivate the students from rural areas to go in for commerce education
2. To provide complete commerce education right from XI std. to Ph. D.
3. To enrich commerce education through seminars, tutorials, field visits, industrial tours, quiz contest, essay competitions, etc.
4. To motivate and train students for self-employment
5. To encourage and coach students for MBA, CET, CA, CS, ICWA, Banking Exams, etc.
6. To provide affordable career oriented courses to the rural students
7. To offer various Short Term Courses to the students
8. To undertake research regarding various business problems, especially in the surrounding area
9. To foster research culture amongst faculty and students
10. To inculcate proper ethical, social and responsible behavior amongst the students
11. To bring about all round development of the students, so that they become worthy members of a nation aspiring to be a world power.

1.5 Introduction of Green Audit:

As per the Evaluation Plan of Internal Quality Assurance Cell of C. D. Jain College of Commerce for 2017-18, Green Audit of the college will be conducted on 10 April 2018.

Green Audit can be defined as systematic identification, quantification, recording, reporting and analysis of components of environmental diversity. The ‘Green

Audit' aims to analyze environmental practices within and outside the college campus, which will have an impact on the eco-friendly ambience. It was initiated with the motive of inspecting the work conducted within the organizations whose exercises can cause risk to the health of inhabitants and the environment. Through Green Audit, one gets a direction as how to improve the condition of environment and there are various factors that have determined the growth of carrying out Green Audit. Green audit is assigned to the criteria 7 of NAAC. It is social responsibility of institution to come forward for environment protection for better future of Nation.

1.6 Objectives:

The purpose of this audit was to ensure that the Green Policy is followed and implemented in the campus, across all departments, administrative bodies and students.

- To introduce and aware students to real concerns of environment and its sustainability
- To secure the environment and cut down the threats posed to human health by analyzing the pattern and extent of resource use on the campus.
- To introduce and aware students the E-waste Policy
- To create paperless, plastic free campus

1.7 ENVIRONMENTAL POLICY OF THE COLLEGE :

Rayat Shikshan Sanstha's C.D.Jain college of Commerce is a quality conscious college. It protects its own environment with its green campus, kept pollution free. Environment development is its basic work with the educational policies implemented in the campus.

The management and the students of the college look after the environment carefully. Every year, during rainy season, we do tree plantation and carefully look after it. It's our own responsibility to preserve the work done in the campus related to the environment.

We have decided our own environmental policy as-

- To create awareness regarding environmental policy of our college to our students and the management.
- To maintain pollution free campus by avoiding tobacco, pan-masala etc, chewing in the campus. As per the govt. rules and regulations, the instructions are displayed in the campus.

- To Use Solar Energy in College Campus by Solar Lamps & Solar water Heater
- To sensitize the students and staff regarding the use of drinking water properly for which, we have provided aqua-guarded drinking water facilities in the campus.
- To bring into use the ‘Rain Water Harvesting’ in the campus. We have collected the rain water from the college roof and it is percolated in the land.
- ‘No Vehicle Day’ concept and keep the campus vehicle free. It helps to save the fuel and make the people use their own natural means.
- To use the ICT and use minimum paper. It will help to go towards ‘Paperless Office’.
- To use the garbage for recycling it in the room of fertilizers with the help of wormy compost plant
- To reduce the ‘sound pollution the campus, we have built the seating arrangements in the shade of trees in our campus..
- To use ‘Use me’ dust bin in the college campus so as to keep college campus clean
- To maintain green campus, we are doing ‘Green Audit’ of our college

This is our environmental policy approved by our father institution, Rayat Shikshansh Sanstha Satara, College Development Committee and IQAC.

1.9 CONSTITUTION FOR GREEN AUDIT :

The Green Audit Committee will act as per the environmental policy and should the responsibility of maintaining and protecting environment surrounding the college. The aim of the committee is to provide advice for the development of environmental policy and practice in the areas of.

- ❖ Soil, Waste and E-waste Management
- ❖ Energy use and conservations
- ❖ Eco-friendly techniques
- ❖ Noise Pollution
- ❖ Air Pollution
- ❖ Paperless operation Procedure
- ❖ Green environment and clean campus

COMMITTEE FOR GREEN AUDIT

S. N.	Name of Member	Designation	Title in Committee
-------	----------------	-------------	--------------------

1.	Dr. L. D. Bhor	Principal	Chairman
2.	Dr. Ghotekar D. B.	Asst. Prof.	Chief – coordinator
3.	Mr. Vivek M More	IQAC	Coordinator
4.	Dr. Gawali S. N.	Asst. Prof.	Member
5.	Mr. Deshmukh S. Y.	Asst. Prof.	Member
6.	Mr. Sayyed S. B.	Asst. Prof.	Member
7.	Mr. Nagpure V. B.	Asst. Prof.	Member

❖ **Soil, Waste and E-waste Management**

Scrap and Waste management is Initiated by the College. The College has adopted a policy to maintain cleanliness on the campus. The college Development Committee and IQAC has issued various directive notices and displayed posters at selected locations to instruct the staff, students and faculty members to maintain cleanliness on the Campus. Waste disposable colour dustbins are kept on the campus to distinguish biodegradable waste and non-disposable waste. Garden waste, Kitchen and other waste are collected from different areas of campus and processed for vermi compost. The compost used for the plants and garden purpose. The MOU signed with The Ashok Co-operative Sugar Factory, Ashoknagar, for expert guidance on vermi culture process of biodegradable waste. Dry waste mainly leaves of tress are collected and used for compost plant on the campus premises. The water overflow from the water tank provided to the garden and plants through pipelines. Toilets and Bathrooms are connected with the drainage system of Municipal council for further water treatment. The parent institute Rayat Shikshan Sanstha having MOU with the e-waste management firm for the college. The sanstha appointed e-waste management committee of expert personnel for verification of e-waste management. After verification of e-waste material, the prospective reports send to the college and dealer. The dealer appointed by sanstha purchases that material from college i.e. computer, printer, monitor, peripheral parts, electric and electronic materials etc. Purchase committee of college recommended buyback products policy for Xerox Machine, Batteries and UPS. The college organized state level seminar on "E-waste Management" for the students and staff which has created an impact upon students and faculty about the hazardous effects and importance of e-waste management system. College students donate their non-used outdated electronic gadgets for the recycle of material under guidance of computer department. The reusable electronic equipment is kept aside for future use.

❖ **Energy use and conservations**

Solar power is the conversion of energy from **sunlight** into electricity, either directly using photovoltaics (PV), indirectly using concentrated solar power, or a combination.

A **solar thermal plant** generates heat and electricity by concentrating the sun's energy. That in turn builds steam that helps to feed a turbine and generator to produce electricity. This is the most common type of **solar thermal plant**.

Advantages of Solar Plant are:

1. Solar power is pollution free and causes no greenhouse gases to be emitted after installation
2. Reduced dependence on foreign oil and fossil fuels
3. Renewable clean power that is available every day of the year, even cloudy days produce some power
4. Return on investment unlike paying for utility bills
5. Virtually no maintenance as solar panels last over 30 years
6. Creates jobs by employing solar panel manufacturers, solar installers, etc. and in turn helps the economy
7. Excess power can be sold back to the power company if grid intertied
8. Ability to live grid free if all power generated provides enough for the home / building
9. Can be installed virtually anywhere; in a field to on a building
10. Use batteries to store extra power for use at night
11. Solar can be used to heat water, power homes and building, even power cars
12. Safer than traditional electric current
13. Efficiency is always improving so the same size solar that is available today will become more efficient tomorrow
14. Aesthetics are improving making the solar more versatile compared to older models; i.e. printing, flexible, solar shingles, etc.
15. Federal grants, tax incentives, and rebate programs are available to help with initial costs

Our college installed 35 KW Solar on-grid energy plant in college campus. The carbon emission in our campus area reduced due to solar energy plant. 3 KW wind energy project gifted by Fulortron India Pvt. Ltd. Under CSR activity. 10 solar street light installed in the college premises.

❖ Air Pollution Control

Rayat Shikshan Sanstha emblem is of banyans tree which also indicates the love, affections and responsibility towards environment. Rayat Shaikshnik Sankul has total 43 acres campus with more than 1000 of tress from various species. In our campus we have planted more than 150 of tress. The campus has garden in the premises i.e. helpful oxygen resources in the city. The awareness is also done by arranging road shows, rallies on various issues related to environment and health. The awareness regarding pollution through formal and informal information in meetings and during environment lectures. Faculty and students follows the norms of Pollution Control Board. The college students and faculty members through NSS/NCC are involved in the activities.

- A. Bicycles: bicycle is the most economical way of transportation. It helps to improve the health of the community. It is pollution free. Most of students are from economically weaker sections uses bicycles.
- B. 4th day of Every Month as No Vehicle Day in the college for staff and Student. They are actively participated in No Vehicle Day.



❖ Public Transport:

Most of the students are from rural area of shrirampur, Rahata, Rahuri, Vaijapur and Newasa Tahshil for their convenience they use public transportation service like bus, train and taxi. Institution instructs the students on transportation etiquette like to remain polite, to follow traffic rules, offer their seats to the elderly, pregnant women etc.

Use of Public transport data

Section: COMMERCE Class Wise Statistical Report (Conveyance) [For A.Y. 2015-2016] Page 1 of 1

Class	By Walk		By Bicycle		By Two Wheeler		By Bus		Other		Total
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
F.Y.BCOM	0	0	57	59	4	0	117	119	3	17	376
MCOM I	0	0	1	13	0	0	39	22	0	5	80
MCOM II	0	0	0	0	0	0	0	0	0	0	0
S.Y.B.COM.	0	0	49	55	6	3	134	92	5	9	353
T.Y.B.COM.	0	0	11	17	0	0	32	27	1	0	88
Grand Total	0	0	118	144	10	3	322	260	9	31	897

Section: COMMERCE Class Wise Statistical Report (Conveyance) [For A.Y. 2016-2017] Page 1 of 1

Class	By Walk		By Bicycle		By Two Wheeler		By Bus		Other		Total
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
F.Y.BCOM	0	0	78	63	0	0	157	112	22	15	447
S.Y.B.COM.	0	0	70	54	0	0	115	123	5	17	384
T.Y.B.COM.	0	0	49	56	0	0	133	94	3	10	345
MCOM I	0	0	9	18	0	0	33	40	1	0	101
MCOM II	0	0	1	15	0	0	38	22	0	5	81
Grand Total	0	0	207	206	0	0	476	391	31	47	1358

Section: COMMERCE Class Wise Statistical Report (Conveyance) [For A.Y. 2017-2018] Page 1 of 1

Class	By Walk		By Bicycle		By Two Wheeler		By Bus		Other		Total
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
F.Y.BCOM	0	0	61	59	35	39	126	133	6	2	461
MCOM I	0	0	14	15	0	2	28	46	1	1	107
MCOM II	0	0	8	15	0	0	26	36	0	0	85
S.Y.B.COM.	0	0	57	61	6	0	135	102	17	13	391
T.Y.B.COM.	0	0	52	47	7	3	100	105	6	16	336
Grand Total	0	0	192	197	48	44	415	422	30	32	1380

❖ Plantation programme :

Every year plantation programme organized by the college in the adopted village and college campus through NSS and NCC. Government of Maharashtra is conscious about the environment in the year 2016-2017 the college has taken imitative to participate in the plantation programme in month of JUNE 2017. Wadala Mahadv which is adopted village by the college for the sake of environmental awareness and plant more than 50 trees. Every year college organizes the NSS camp in the village and various lectures and activities run by college. The adopted village got "Anti Defecation Award "by ZP government of Maharashtra.

On the occasion of Birth Anniversary of Dr. Padmabhushan Bhaurao Patillatation and President Hon. Sharad Pawar (Ex. Agricultur Minister Government of India) observed plantation programme.

S. N.	Year	No. of Plants	Total no. of plants
1.	2016-2017	50	65
2.	2017-2018	05	

❖ **Noise Pollution Management :**

A. Silence zones in college like library, auditorium:

Various display boards are present in college premises for awareness to maintain silence in the college.

B. Noise control during any programme in college:

The college has one huge gate for the entry and exit of students, monitored by the security guard. The security guard and professors of sports department ensure smooth entry and exit of students without any noise and nuisance under Discipline Committee



C. Pedestrian Friendly Roads:

Pedestrian Roads provide a safe path for people to walk along in the campus. The campus is having pedestrian friendly road in campus to classrooms, library, Gymnasium and hostel.



D. 'No Smoking, No Tobacco' in campus area:

C. D. Jain College Commerce College is completely smoking and tobacco free campus and use of these are a punishable offence. The instructions regarding this are already given to the students and the staff members. The display boards are displayed at various places in the college.



E. Display boards in college campus:

Various boards for the awareness on the environment control, noise control, and tobacco free campus, conservation of energy, recycling of resources, tree plantation and environmental policy of college are displayed for all the stakeholders.



F. Controlling entry and exit of students monitoring.

1. Our college has the main gate & one gate in main building. The teaching learning programme and head office activities run in this building. During cultural programme and examination, we use the main gate through which the students can come and go easily. The emergency gates are used to control the rush of students.
2. We have security guards at the entry level of main gate. Most of the times, the parents visit the college, they register their name at the gate and then they are allowed to enter the college.
3. The college has installed 16 CCTV cameras in the campus along with the security guard at the entry level. The security guard looks after the safety of the college campus.
4. The library has barcode machine for timely entry and exit of the students and faculty.

G. No pressure horns for vehicle:

Our college staff members and students does not use pressure horns and is not permissible for the students studying in the college.



HUMAN HEALTH AND SAFETY MANAGMENT

A. Group insurance for staff and students:

To ensure the safety of the staff members the college has adopted the group insurance. The Savitribai Phule Pune University has student's accidental policy. Every year college contribute amount according to guideline of university.

B. Accident policy :

The staff has LIC insurance policy in relation to accident. C. D. Jain College of Commerce, Shrirampur is a complete commerce college and being a commerce college students and faculty knows the importance of insurance policy.

C. Periodic health check-up:

College organizes periodic health checkup for the students. The colleges have MOU with Saint Luke Hospital

- **Contract with Lady Doctor :**

Girls students are near about in equal proportion to boys. And so it is responsibility of the college to provide them the medicinal guidance in college. We do organize various lectures giving guidance about health and medical problems. But there is also a need of regular visit of a lady doctor with whom girl students can discuss their problems and in case of any emergency we call the doctor at any time in college and girls' hostel.

The college has made a contract with Dr. Shital Hivarkar from Shrirampur working at Kamgar Hospital. She visits the college and girls' hostel twice in a month on Thursday. We do keep records of the visit and girls feel free to talk with her about their health problems.

From the year 2012-13 upto 2016-17 college has appointed Dr. Shital Hivarkar as a medical officer and she gives regular visits as per the contract and solves the medical problems of girl students and give them the proper guidance.

- **Hemoglobin Checkup of Students :**

The college has two important departments i.e. Commerce and Computer. On an average there are nearly 800 girl students in senior college from commerce and computer department.

Since last two years college has been organizing the hemoglobin check-up programme. HB is the very important aspect to make the girl students feasible to face the medical problems and let the health be very strong. It is the practice to not to visit the doctor without any illness and so majority girl students do not know their level of HB. Hence, college has organized HB testing programmes. Details about participation of girls students in HB testing programme is given below.



D. Awareness campaign on human health:

Various lectures and programmes are arranged for creating health awareness and developing diet habits among students and staff members. Short term programme on "Health Awareness programme and Advanced Fitness Exercise" introduced in the academic year 2016-2017. Awareness rally by students for "Swatch Bharat Abhiyaan" Every year NSS unit organizes a camp in nearby villages and plans to clean the village campus and various lectures are organized to create awareness in villagers.

- **Napkin Vending and Disposal Machine :**

With a view to promote menstrual health of women and adolescent girls by ensuring availability of quality sanitary napkins, the college has installed automated sanitary napkin vending machine and incinerator.

- **Yoga / Meditation for staff at least once in a week**

Health is wealth, is understood by our students and staff. Our college campus provides the facilities of indoor and outdoor stadium for the students, staff and the citizens of Shirampur. Our sports faculty provides proper guidance and we are motivated to do the daily exercise of Yoga / Meditation in the college. International Yoga day celebrated in the college campus.



- **Gymnasium and Health Club:**

The Centre of Disease Control and Prevention recommends that all adults get at least 30 minutes of moderate exercise five days a week. These exercises can be done in gym. Regular exercises carry many physical and mental health benefits. Going to gym helps a person to lose extra weight. Reduced weight reduces the risk of developing serious conditions. Exercising daily strengthens the heart and allows it to pump more

efficiently with less strain. Exercises lower the blood pressure, cholesterol level, allows the blood to circulate smoothly through arteries. All this lowers the risk of heart diseases or having a stroke, developing diabetes, metabolic syndromes, colon cancer, breast cancer, etc. Hence, with the point of view of maintain the health of all the students; college has made an arrangement of well-equipped gymnasium. Two separate gyms are provided by the college- one in college campus and other in ladies hostel. The equipments available in the gym are listed below:

a. College Gym:

1. For male students- malt station gym free weight, mallakhamb, boxing ring, Olympic size lifting set
2. For female students- assist machine, six separate single station weight, and Olympic size lifting bar machines

b. Hostel Gym (For girls only)

Lat pull down machine, leg curl and leg extension machine, free weights and bars and dumbbells of various sizes.

c. Beneficiaries of the gym are:

1. Male students
2. Female students
3. Male staff
4. Female staff
5. Hostel girls
6. Outsiders of the college (with proper permission of the Principal and Physical Director)

The college also provides Physio Therapy Consultancy to the outsiders. The Physical Director, Prof. Deshmukh S. Y. (B. Com., M. Ed. Physical and SET) provides this consultancy.

• **Awareness campaign for aids, cancer and TB with coordination of Civil Hospital**

Our college NSS activities, NCC activities are visible in doing the awareness regarding Aids, Cancer and TB. Time to time, the other activities of the college also creates awareness by organizing poster competitions, wallpapers etc.



B. Arranging Blood donation camps:

The NSS and NCC unit of the college organised blood donation programme every year in association with Civil Hospital Ahmednagar.

Sr. No	Year	No. of students who donated blood	Total
1.	2014-2015	42	124
2.	2015-2016	48	
3.	2016-2017	36	
4.	2017-2018	24	

C. Fire safety:

Mrs. Kesharbai Sonajirao Kshirsagar Alias kaku Arts, Science & Commerce College Beed is having awareness & safety facility. we have about 05 fire extinguisher all across College Buildings. Fire extinguishers are fixed in the main building, library building, Auditorium, and all Dept. of the college for safety purpose.

D. First aid box:

All the laboratories are equipped with SOP's, Do's Don't' for the laboratory safety. The students are also trained for first aid and emergency treatment in various situations. First aid boxes are fixed in administrative office and indoor stadium & all laboratories are having first aid box of the college.

E. Emergency phone numbers:

All the emergency phone numbers are displayed at the entrance and copy is also available in administrative office.

Sr. No.	Office	Contact No.
1.	Office of the College	02422-222245
2.	Hospital	02422-223663
3.	Police Station	100 02422-222666
4.	Women Helpline	103
5.	Fire Brigade	02422-221100
6.	Ambulance	108

SOIL POLLUTION MANAGEMENT

A. Vermi compost plant in college (use of bio-fertilizers):

Waste disposable color dustbins are kept in the campus area to distinguish biodegradable waste and Non Disposable waste. Garden waste and other waste are collected from different areas of campus and processed for vermi compost. The ready compost used for the plants and garden purpose. The MOU signed with Ashok Sahkari Sakhar Karkhana Ltd. Ashoknagar, a cooperative sugar factory for expert guidance on vermi culture process of biodegradable waste. Dry waste mainly leaves of trees are collected and used for compost plant in the campus premises.



B. Rain water harvesting:

Water is an integral part of human life and eco system. College has its internal source of water through bore well system. Increasing demand of water supply and marginal rainfall in the College campus so it is decides to establish its own water harvesting project in the college campus. All building roof tops are covered through such a rain water harvesting project. The earth water level is increased which helped to have water to our college boar. It increases natural storage of water, and helps the college in getting water for various purposes. The college is having its own well and it's located at girl's hostel. This dug well may be utilized as recharge structure for the girls hostel water harvesting.

- **Rain Water Harvesting: Structure and Utility:**

- **Introduction**

As the scarcity of water is rapidly increasing everyday particularly during the summer season, the demand for water in the college campus also substantially increased. Therefore college has installed three rooftop rain water harvesting systems in the college campus.

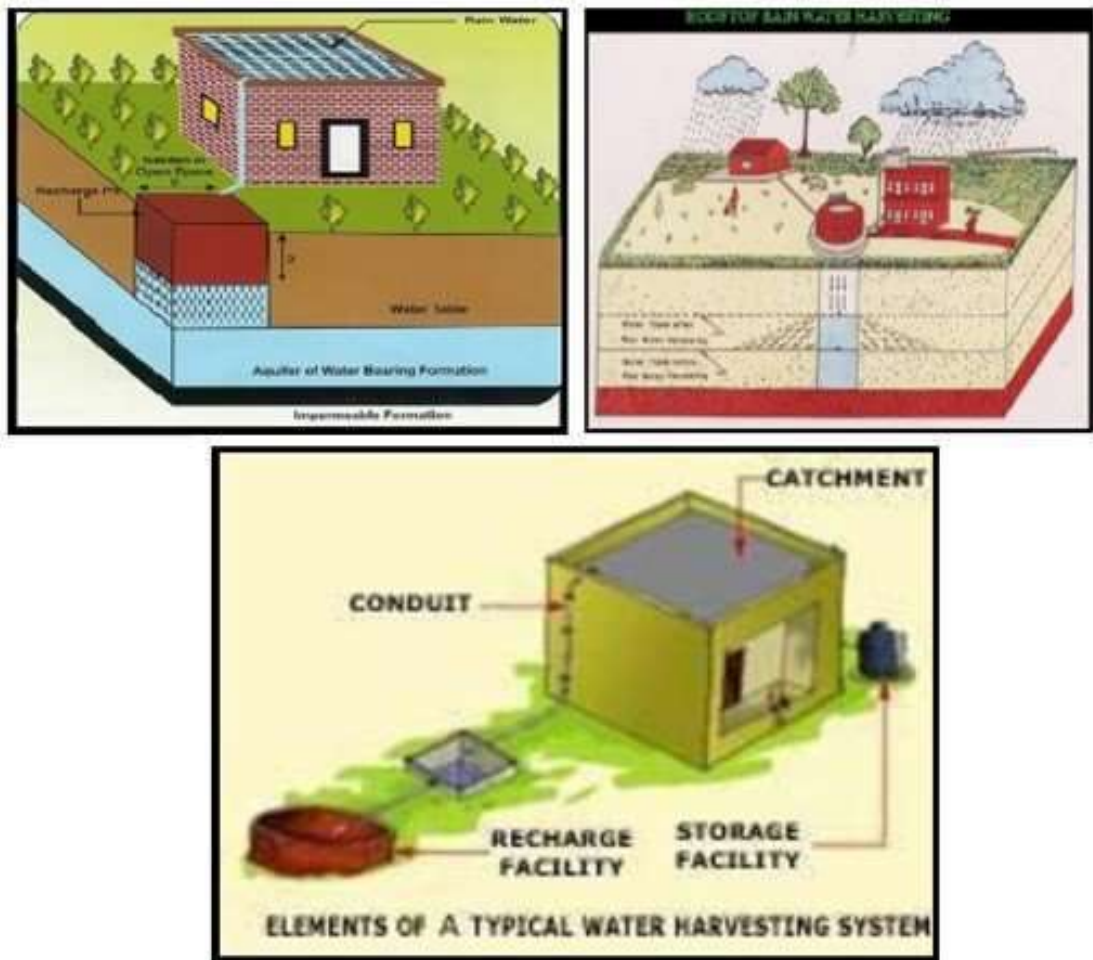
- **Design of proposed catchment area:**

The catchment of water harvesting system is the rooftop that receives rainfall directly and drains the water system. The existing roof is made use of to collect rainwater. Therefore the rooftop is swept and cleaned regularly for collecting the water to its maximum purity.

From the design of the terrace floor, we calculated total rooftop area of our college.

S. N.	Particulars	Area in Sq.m.
1	College Building and Office	297.39
2	Women Hostel	425.31
3	Students Welfare	197.50
4	Principal Residence	85.77
5	Staff Quarter	121.70
6	Staff Quarter No.1 (Non-Teaching)	106.02
7	Staff Quarter No.2 (Non-Teaching))	178.28
8	Administrative Building	284.07
9	New Building	646.79
10	Gymkhana	473.20
	Total	2816.03

- **Design of transportation system:**



For transporting the rain water from the catchment area in this project we have used Polyvinyl chloride (PVC) pipes and fittings. For the collection purpose, we are using pipes ranging 2.5 - 3 inches diameter. A care has been taken that the first spell of rain is flushed out and does not enter the system. This is done since the first spell of rain carries a relatively larger amount of pollutants from the air and catchment surface. Rain water from girl's hostel rooftop is transferred into specifically designed dug well near the bore well of girls hostel. Rain water harvesting is the process of collecting, conveying and storing water from rainfall in an area. Institution has Roof Top Rain Water Harvesting System of catching rainwater where it falls. Rainwater is collected from rooftop of the building is diverted through pipes to bore well. Clear water then passes to bore well to recharge the groundwater.

- **Approximate amount of water percolated under the ground per year:**

The average monsoon rainfall in the area is approximately 666 mm per year. From average rainfall and the total surface of rooftop catchment area for each system,

we have calculated the amount of water percolated under the ground per year which is given as below.

C. Plastic free environment:

Our college is plastic free environment and also creating awareness amongst the students and staff members regarding the same by display boards and other programmes. College takes care of environmental hazardous substance like plastic, Students and staff members are instructed to use paper bags and cloth bags. Initiative has been taken to make campus plastic free by discouraging use of plastic bags to minimize environmental damage and risks associated with it.

- **OTHER SECTORS FOR ENVIRONMENT MANAGEMENT:**

- **Waste Streams**

Primarily segregated waste from Lecture quarters Blocks, Hostel Blocks, Residential areas (Sevak Niwas) travel in their respective streams and reach the segregation shed for appropriate treatment and disposal. There are different technologies used for treatment of various types of wastes. They are illustrated below.

- **Wet Waste**

Waste especially from kitchen, such as vegetable refuses, food scraps etc. are called wet waste. Send them for composting using one of the methods such as aerobic or anaerobic methods.

- **Aerobic Methods:**

Windrow composting, vermin-composting, composting are some of the popular methods. See references section of this SOP for a list of useful guides that can explain each of these methods.

- **Dry Waste**

Dry wastes must undergo sifting for picking out the recyclables to be passed on to the recyclers. The residual reject are sent for incineration in an eco-friendly incinerator. Generation of electrical energy from incinerated dry waste is possible by addition some simple technologies.

- **Hazardous Waste**

The best approach is to select and use as far as possible only those products which are eco-friendly and environmentally safe. When items such as batteries (dry cell and wet batteries), paints and other household / office chemicals are used, the best thing to do is to approach the supplier to take them back. It is good to find operator of common facility for treatment of hazardous waste, and dispose hazardous waste through such operators. In the absence of such exchange or buy-back arrangement, steps must be taken for environmentally sound management of hazardous wastes.

Care must be taken so as to protect health and the environment against the adverse effects which may result from disposing such wastes. We must make informed decision about which method of disposal would not harm the health or environment.

- **E-waste**

The parent institute Rayat Shikshan Sanstha having MOU with the e-waste management firm for college. The Sanstha appointed e-waste management committee of expert personnel for verification of e-waste management. After verification of e-waste material, the prospective reports send to the college and dealer. Dealer appointed by sanstha borrows that material from college i.e. computer, printer, monitor, peripheral parts, electric and electronic materials etc. Purchase committee of college recommended buyback product policy for Xerox Machine, Batteries and UPS. B.B.A.(C.A.) department organized state level seminar on "E-waste Management" for the students and staff which is useful to know ways, hazardous effect and importance of e-waste management system. College students donate their non-used outdated electronic gadgets for the recycle of material under guidance of computer department.

- **Use of LED bulbs :**

Principal's Office, Administrative Building, Research department, Office of IQAC, Administrative Office, Library, Ladies Common Room, Virtual Classrooms, Language Lab, Computer Labs, Commerce Lab, Gymnasium hall, Departmental Offices, and all classrooms have LED bulbs to save energy.

- **Conducting energy audit :**

In near future, we are about to conduct energy audit of our college. It will help us in maintaining our energy use in the college campus.

- **Dustbins in the premises:**

College adopted a policy to maintain cleanliness in the campus. For this purpose the College Development Committee has issued various directives from time to time, notice and posters are displayed at selected location to instruct the staff, students and faculty members to maintain cleanliness in the Campus. Waste disposable color dustbins are kept in the campus area to distinguish biodegradable waste and Non Disposable waste. The use of dustbins maintains garbage free campus.

- **Use of dust proof chalks:**

All the classrooms are fitted with white and green boards with dust free chalks and marker pens. LCD projector also installed in all classroom which minimizing the use of dust chalks.

- **E-Waste Management :**

The Rayat Shikshan Sanstha appointed e-waste management committee of expert personnel for verification of e-waste management. After verification of e-waste material, the prospective reports send to the college and dealer. The dealer appointed by sanstha purchases that material from college i.e. computer, printer, monitor, peripheral parts, electric and electronic materials etc. Purchase committee of college recommended buyback products policy for Xerox Machine, Batteries and UPS. The B.B.A.C.A. department organized state level seminar on "E-waste Management" for the students and staff which has created an impact upon students and faculty about the hazardous effects and importance of e-waste management system. College students donate their non-used outdated electronic gadgets for the recycle of material under guidance of computer department. The reusable electronic equipment is kept aside for future use.

Plants Botanical Names

S. N.	Botanical Name	Common Name	Family	Total
1.	<i>Grevillea robusta</i>	Silver oak	Proteaceae	07
2.	<i>Albizia saman</i>	Rain tree	Fabaceae	10
3.	<i>Cocos nucifera</i>	Naral	Arecaeae	13
4.	<i>Alstonia scholaris</i>	Saptarni	Apocynaceae	07
5.	<i>Cassia siamea</i>	Cassia tree	Fabaceae	06
6.	<i>Delonix regia</i>	Gulmohor	Fabaceae	03
7.	<i>Thespesia populnea</i>	Paras Bhendi	Malvaceae	03
8.	<i>Ficus panda</i>	Ficus	Moraceae	10
9.	<i>Cordia dichotoma</i>	Bhokar	Boraginaceae	01
10.	<i>Peltophorum pterocarpum</i>	Yellow-frame tree	Fabaceae	02
11.	<i>Azadirachta indica</i>	Neem	Meliaceae	08
12.	<i>Cassia fistula</i>	Bahava	Fabaceae	01
13.	<i>Ficus religiosa</i>	peepal tree	Moraceae	05
14.	<i>Caesalpinia pulcherrima</i>	Shankeshwar	Fabaceae	04
15.	<i>Cascabela thevetia</i>	Pivala Kanher	Apocynaceae	02
16.	<i>Terminaliacatappa</i>	Badam	Combretaceae	07
17.	<i>Spathodea campanulata</i>	Pichkari	Bignoniaceae	06
18.	<i>Hyophorbe lagenicaulis</i>	Bottle Palm	Aracaceae	06
19.	<i>Ficus benghalensis</i>	Vad	Moraceae	03
20.	<i>Polyalthia longifolia</i>	Ashok tree	Annonaceae	27
21.	<i>Santalumalbum</i>	Chandan	Santalaceae	02
22.	<i>Casuarina equisetifolia</i>	Suru	Casuarinaceae	06
23.	<i>Mimusops elengi</i>	Bakul	Sapotaceae	03
24.	<i>Araucaria angustifolia</i>	Khrismas tree	Araucariaceae	01
25.	<i>Thuja occidentalis</i>	Morepankhi	Cupressaceae	13
26.	<i>Dracaena</i>	--	Asparagaceae	03
	Total			159

Details of Tree and Location

1. Silver Oak

- It is a fast-growing evergreen tree, between 18–35 m (59–115 ft) tall, with dark green delicately dented bipinnatifid leaves
- Its flowers are golden-orange bottlebrush-like blooms, between 8–15 cm (3–6 in) long, in the spring, on a 2–3 cm long stem and are used for honey production
- Health benefits : Act as antioxidant against free radicals, Support the cardio protective activity
- Location : Near Gymkhana road on the way to the RBNB College.



2. Rain Tree

- It usually reaches a height of 25 m (82 ft) and a diameter of 40 m. The leaves fold in rainy weather and in the evening, hence the name "rain tree" and "five o'clock tree" (Pukul Lima) in Malay. Several lineages of this tree are available, e.g., with reddish pink and creamish golden colored flowers.
- According to a research conducted at the School of Forestry of the Bogor Agricultural Institute, Indonesia, a mature tree with a crown diameter measuring 15 meters absorbed 28.5 tons of CO₂ annually
- Location : in front of Administrative Block, Near Parking and Infront of Principal Bungalow.



3. Coconut Tree

- *Cocos nucifera* is a large palm, growing up to 30 m (98 ft) tall, with pinnate leaves 4–6 m (13–20 ft) long, and pinnae 60–90 cm (2–3 ft) long; old leaves break away.
- Per 100-gram serving with 354 calories, raw coconut meat supplies a high amount of total fat (33grams), especially saturated fat 89% and carbohydrates (Micronutrients in significant content include the dietary minerals manganese, iron, phosphorus, and zinc. Coconut Water is useful in many diseases.



4. Saptaparni

- *Alstonia* is evergreen fast-growing tree, that grows up to 40 m tall. The fragrant flowers are greenish white and occurs in early winter.
- The bark of *Alstonia scholaris* is used solely for medicinal purposes, ranging from Malaria and epilepsy to skin conditions and asthma.
- In Ayurveda it is used as a bitter and as an astringent herb for treating skin disorders, malarial fever, urticaria, chronic dysentery, diarrhea, in snake bite and for upper purification process of Panchakarma.
- Location : Front of Examination Centre



5. Cassia tree

- *Cassia fistula* is a medium sized deciduous tree, with an oval to rounded shape, 5 to 15 meter in height and 5 to 10 meter wide. *Cassia fistula* tree is well known for its impressive yellow flowers that cover the entire canopy.
- *Cassia fistula* also grown as an ornamental tree. *Cassia fistula* also used in the treatment of cancer, constipation, convulsions, delirium, diarrhea, dysuria, epilepsy, gravel, hematuria, pimples and glandular tumors. Pest of root is useful in skin diseases, burning sensations and syphilis. Bark is useful in boils, leprosy, ringworm affection, diabetes, strangury and cardiac problems. Leaves are useful in skin diseases, burning sensation, dry cough and fever.
- Location : Near Main Gate



6. Gulmohar (*Delonix regia*)

- The flowers of *Delonix regia* are large, with four spreading scarlet or orange-red petals up to 8 cm long and a fifth upright petal called the standard, which is slightly larger and spotted with yellow and white.
- Because of its hardy nature and aggressive root system, it is a good tree to control soil erosion in the arid and semi- arid areas.
- Location : Near Water Cooler



7. Paras Bhendi (*Thespesia populnea*)

- **commonly known as:** aden apple, bhendi tree, cork tree, Indian tulip tree, John-Bull tree, king of flowers, large-leaved tulip tree, mangrove, milo (in Hawaii), Pacific rosewood, portia tree, seaside mahoe (in Florida), umbrella tree.
- **Growth Form:** It is a tree or shrub, with dense crown, and usually grows up to 10 m tall although it has been recorded to be 20 m tall.
- **Location:** Front of Gymnashium Road



8. Ficus (Ficus Panda)

- *Ficus* is a pantropical genus of trees, shrubs, and vines occupying a wide variety of ecological niches; most are evergreen, but some deciduous species are endemic to areas outside of the tropics and to higher elevations. Fig species are characterized by their unique inflorescence and distinctive pollination syndrome, which utilizes wasp species belonging to the Agaonidae family for pollination.
- *Ficus* trees can maintain their tree-like shape regardless of their size, so this makes them ideal for bonsais or for massive houseplants in large spaces. The plant is used for ornamental purpose.
- **Location: Front of Hall B2**



9. Bhokar (*Cordia dichotoma*)

- *Cordia dichotoma* is a small to moderate-sized deciduous tree with a short bole and spreading crown. The stem bark is greyish brown, smooth or longitudinally wrinkled. Flowers are short-stalked, bisexual, and white in colour which opens only at night. The fruit is a yellow or pinkish-yellow shining globose which turns black on ripening and the pulp gets viscid.
- The immature fruits are pickled and are also used as a vegetable fodder. The leaves also yield good fodder. The seed kernel has medicinal properties.
- **Location :** (College Road Behind Wall compound)



10. Yellow Frame Tree *peltophorum pterocarpum*

- It is a deciduous tree growing to 15–25 m (rarely up to 50 m) tall, with a trunk diameter of up to 1 m belonging to Family Leguminosae and sub-family Caesalpiniaceae.
- Used as decorating flower in Telangana State's Batukamma festival.
- In traditional medicine it is used as an astringent to cure or relieve intestinal disorders after pain at childbirth, sprains, bruises and swelling or as a lotion for eye troubles, muscular pains and sores.
- Location : Behind The Compound Wall of girls parking



11. Neem *Azadirachta India*

- Neem is a fast-growing tree that can reach a height of 15–20 metres (49–66 ft), and rarely 35–40 metres (115–131 ft). It is evergreen, but in severe drought it may shed most of its leaves or nearly all leaves. The branches are wide and spreading. The fairly dense crown is roundish and may reach a diameter of 15–20 metres (49–66 ft) in old, free-standing specimens
- Used in toothbrush, Neem blossom, Neem Gum, Cosmetic, fertilizers, used against prox virus, Soap, Honey.
- Location : College campus and College residence



12. Ficus Religiosa

- *Ficus religiosa* is a large dry season-deciduous or semi-evergreen tree up to 30 metres (98 ft) tall and with a trunk diameter of up to 3 metres (9.8 ft).
- The *Ficus religiosa* tree is considered sacred By the followers of Hinduism, Jainism and Buddhism.
- Location : College campus and College residence



13. Phytopharmacology of *Ficus religiosa*

Herbs have always been the principal form of medicine in India. Medicinal plants have curative properties due to the presence of various complex chemical substances of different composition, which are found as secondary plant metabolites in one or more parts of these plants. It is circular in shape and compressed. When it is raw, it is of green color and turns black when it is ripe. The tree fruits in summer and the fruits get



ripened by rainy season. The vasculature comprises a single main vein (the midrib), secondaries, tertiaries, quaternaries, and intermediaries. The number of areoles per square millimeter decreases from 15.5 to 2.7, while the number of vein endings and vein tips per areole show no correlation either with one another or with leaf size

14. Mexican oleander

Mexican oleander is a large shrub or a small tree, up to 10 to 20 feet tall with Oleander-like leaves mostly in whorls of three, long and narrow up to 10 inches long. Tip of leaf is pointed with a dark green color. Flowers are generally yellow, but there are varieties with white and orange flowers too. Fruit is small, containing two to four flat seeds. If ingested may experience pain in the mouth and lips, may also develop vomiting, cramping, abdominal pain, nausea and bradycardia shortly after ingestion. Mexican oleander is native to tropical America.



15. Indian almonds

Indian almonds are spreading trees with large, leathery, oval leaves which turn red before they fall. The tree has a distinctive shape, its horizontal branches growing in wide spreading circles at different levels on the trunk. The greenish - white female - and male flowers are on the same tree; these flowers are inconspicuous and not very showy. The pale green fruit is the size and shape of an almond in its shell. Some varieties become reddish-purple when ripe. The nuts are edible, taste like almonds and are eaten. A highly ornamental tree, much planted in avenues and gardens. Flowering: February-May.



16. *Spathodea campanulata*

One of the world's most spectacular flowering trees, African tulip tree is a large upright tree with glossy deep green pinnate leaves and glorious orange scarlet flowers. It may grow to 80 ft on an ideal site, but most specimens are much smaller. The tree has a stout, tapering, somewhat buttressed trunk covered in warty light gray bark. The lateral branches are short and thick. They are composed of 5-19 deeply veined oval leaflets. The horn shaped velvety olive buds appear in upturned whorls at the branch tips. A few at a time, the buds of the lowest tier bend outward and open into big crinkled red orange tuliplike bells with red streaked gold throats, frilly yellow edges, and four brown-anthered stamens in the center. Each of these pods



contains about 500 tissue papery seeds. The tree flowers in spurts all through the growing season, but peak bloom is usually in the spring.

17. *Hyophorbe lagenicaulis*

Growth Form: An unusual but intriguing, solitary, dainty, slow-growing palm with a large swollen trunkbase, which tapers upwards to the attractive crownshaft, resembling a bottle, topped with a sparse, delightful crown of ascending to spreading, bright green, feathery fronds. **Trunk:** Trunk grey, ringed with visible old leaf scars, up to 60 to 70 cm in diameter, with a bulge at the base, crownshaft smooth, green.



Prefers suntrap location, but will also do fairly well under partial shade conditions. Moist but well-drained soils are its preferences but is adaptable to many soil types. It is fairly salt tolerant but best not to let soil dry out. Propagate by seeds, which germinates in 4 to 6 months.

18. *Hyophorbe lagenicaulis*

The trunk is a rounded bulge in young specimens and gradually elongates and flattens somewhat as the palm matures. These oldtimer bottle palms can be seen at Miami's Fairchild Tropical Garden. A small crown consisting of 4 to 8 pinnate (feather-like) leaves sits atop a smooth green crownshaft that connects the leaves to the trunk. The upwardly arching leaves grow to about 10 ft (3.1 m) in length in mature specimens. Leaflets are about 2 ft (0.6 m) long and arranged in two upward pointing rows. The inflorescences emerge at the point where the crownshaft meets the trunk. They grow upward as they mature supporting numerous male and female small white flowers on the same stalk. The female flowers are followed by 1 in (2.5 cm) round fruits which change from green to black as they mature. *Hyophorbe lagenicaulis* has a single trunk up to 20 ft (6 m) tall, about 2 ft in diameter with ring scars and green crownshaft at the top. The gray, self-cleaning trunk is bottle shaped, hence the name Bottle Palm.



19. *Ficus benghalensis*

Ficus benghalensis is an evergreen tree with a wide, spreading crown; it can grow 20 - 30 metres or more tall. The plant usually begins life as an epiphyte, growing in the branch of another tree; as it grows older it sends down aerial roots which, when they reach the ground quickly form roots and become much thicker and more vigorous. They supply nutrients to the fig, allowing it to grow faster than the host tree. The aerial roots gradually encircle the host tree, preventing its main trunk from



expanding, whilst at the same time the foliage smothers the foliage of the host. Eventually the host dies, leaving the fig to carry on growing without competition.

The leaves are used to remedy dysentery and diarrhea. They are used in a decoction with toasted rice as a diaphoretic. They are applied to abscesses as a poultice to promote suppurations and discharge of pus.

20. *Polyaltialongifolia*

Ashok is native to India and Srilanka. Somehow, the name Ashok has stuck in north India, although the "real" Ashok is what is also called [Sita Ashok](#). The weeping, branching habit of this 25-foot tall tree gives it a narrow columnar shape. Glossy green, long, narrow leaves have attractive wavy edges. Ashok is commonly seen as a lofty column, very graceful with its downward-sweeping branchlets and shining, green foliage ; but sometimes wide-spreading slender branches issue from the straight trunk and form a compact symmetrical crown. It is a very popular tree in India. The bark is smooth and dark greyish-brown. Flowers appear during March and April. For a short period — two or three weeks only — the tree is covered with a profusion of delicate, star-like flowers, which, being palest-green in colour, give the tree a peculiar hazy appearance. They grow in clusters from small protuberances all along the dark branchlets. Each flower, borne on a slim, green stem has a tiny calyx and six long, narrow, wavy petals arranged in two sets of three.



21. Sandalwood

Sandalwood is an evergreen tree, growing up to 4-9 m tall. The trees have a long life, and may live up to one hundred years of age. The tree is variable in habit, usually upright to sprawling, and may intertwine with other species. The reddish or brown bark can be almost black and is smooth in young trees, becoming cracked with a red reveal. The heartwood is pale green to white as the common name indicates. The oval leaves are thin, oppositely arranged. Smooth surface is shiny and bright green, with a glaucous pale underside. Fruit is produced after three years, viable seeds after five. These seeds are distributed by birds. Sandalwood oil was used traditionally to treat skin diseases, acne, dysentery, gonorrhea, and a number of other conditions.¹ In traditional Chinese medicine, sandalwood oil is considered an excellent sedating agent.



22. Spanish cherry

Spanish cherry is a lovely green small tree of the Indian subcontinent. With its small shiny, thick, narrow, pointed leaves, straight trunk and spreading branches, it is a prized ornamental specimen because it provides a dense shade and during the months from

March to July fills the night air with the delicious heady aroma of its tiny cream colored flowers. Flowers are small, star-shaped, yellowish white in color, with a crown rising from the center. Oval leaves, People love to collect them as they retain their odor for many days after they fall. They are offered in temples and shrines throughout the country. Appears in Indian mythology as *Vakula* - said to put forth blossoms when sprinkled with nectar from the mouth of lovely women. Fruits are eaten fresh.



Medicinal uses: Various parts of the tree have medicinal properties. It is used in the treatment and maintenance of oral hygiene. Rinsing mouth with water solution made with bakul helps in strengthening the teeth. It also prevents bad breath and helps keep the gums healthy.

23. Morpankhi

Morpankhi is a plant which is found in every small garden in India. Belonging to the cypress family, it is a densely branched evergreen conifer that can become 50 ft tall with a spread of 20. However, it is commonly grown as a smaller, bushier shrub. It tends to have several to many stems, but can be trimmed to a single leader stem creating a treelike form. The overall shape is conical, with the crown becoming more irregular and spreading with age. The bark is rusty-brown and fibrous. The numerous slender ascending branches support shoots that spread out in flat, vertical planes. The leaves are like little scales overlapping and tightly packed on the shoots. The cones are 15-25 mm long, green ripening brown in about 8 months from pollination, and have 6-12 thick scales arranged in opposite pairs. Morpankhi is native to China and Korea, but cultivated as an ornamental plant the world over.



Evidences of Project



News of Colleges



10 KW Jain Solar Panel



Electric Meter and Net Metering 10 KW project at New Building



10 KW project Jain Solar at Girls Hostel



Girls Hostel net Meter



5KW Solar project at Principal bungalow



Principal Residence Net meter



10 KW project under BCUD Savitribai Phule Pune University "Planning and Development Grant
Worth Rs. 50000 Rs. And 15000 college share.



Wind Energy under CSR project of Fullerton India Ltd.

रयंतचे तीनही महाविद्यालय सौर ऊर्जेने उजळून निघणार

श्रीरामपूर (प्रतिनिधी) - रयंत संकुलातील तीनही महाविद्यालये सौर ऊर्जेने उजळून निघणार आहे. त्यामुळे विजेचे बिल कमी होऊन लाखो रुपयांची बचत होणार आहे.

रयंत शिक्षण संस्थेचे शहरात तीन महाविद्यालये आहेत. संस्थेच्या व्यवस्थापन समितीच्या सदस्या मीनाताई जगधने यांनी विजेचे बिल कमी करण्यासाठी सौर ऊर्जेचा वापर करण्याचे ठरवले. त्यांनी जैन उद्योग समूहाशी यासंदर्भात चर्चा केली. त्यानंतर हा प्रकल्प तीनही महाविद्यालयांने राबविण्याचा निर्णय घेतला. आता या प्रकल्पाचे काम सुरू आहे. दोन महिन्यात ऊर्जानिर्मिती सुरू होणार आहे.

बोरावके महाविद्यालयाचा सौर ऊर्जा प्रकल्प हा ५३ के.व्ही. क्षमतेचा असून त्याकरिता ५३ लाख रुपये खर्च आला आहे. सरकारचे साडे सात लाख रुपयांचे अनुदान मिळणार आहे. पुणे विद्यापीठाने पाच लाख रुपयांचे अनुदान दिले आहे. महाविद्यालयाला वर्षाला वीज बिलावर बारा लाख रुपये खर्च करावा लागत होता. पण आता सौर ऊर्जेचा वापर सुरू झाल्याने वर्षाला केवळ अडीच ते तीन लाख रुपये खर्च येणार आहे अशी माहिती प्राचार्य के.एच. शिंदे यांनी दिली.

डाकले महाविद्यालयाच्या सौर ऊर्जा प्रकल्पासाठी २१ लाख रुपयांचा खर्च आला असून पाच लाख रुपये पुणे विद्यापीठाने दिले

आहे. तसेच सरकारी अनुदान मिळणार आहे. वर्षाला ६ लाख रुपयांचे बिल येत होते. त्यात आता मोठी बचत होणार आहे. शिवाय हरित ऊर्जेचा वापर होणार आहे. पर्यावरणासाठी ते महत्वाचे आहे. असे प्राचार्य लक्ष्मण भोरे यांनी सांगितले. शिक्षणशाख महाविद्यालयांनेही सौर ऊर्जा प्रकल्प उभारला आहे. संपूर्ण स्वतःसंकुल हे सौर ऊर्जेने उजळून निघाला आहे. यापूर्वी अशोक शिक्षण संस्थेच्या रामराम आदिक पब्लिक स्कुलने पवन ऊर्जा निर्मिती प्रकल्प राबविला होता. त्यांचा विजबिलाचा खर्च वाचला होता. स्वर्गीय गोविंदराव आदिक यांच्या संकल्पनेतून हा प्रकल्प राबविला गेला. आता रयंतने सौर ऊर्जा प्रकल्प राबविला आहे.





शिव संघटक अज्ञात
कवाड, दादासाहेब
कुवाड, ग्रामपंचायत
विलास गावकवाड,
त गावकवाड, प्रदीप
करण गावकवाड
नले.

नसरोग चे उद्घाटन

मनेर तालुस्पातील
ग्रामीण आवुर्वेदिक
येथे मानस रोग
तिचेच्या मुद्दतांवर
उद्घाटन करण्यात
ग्रामीण भागातील
महाविद्यालय व
रूपण विभागाची
वेभागात नैराश्य,
ती अशा अनेक
र केले जाणार
सांगण्यात आले
डॉ. वारुंगसे,
तय गिते, शीतल
रुग्णालयातील
ते.

जलसंधारणाच्या कामात सेवाभावी संस्थांनी पुढाकार घ्यावा : बोरबने

पुणतांबा (घातांहर)- शेती व
पिण्याच्या पाण्याचा प्रश्न दिवसेंदिवस गंभीर
होत चाललेला आहे. या प्रश्नाचे गांभीर्य
लक्षात देऊन प्रत्येक गावांत, यथारत
जलसंधारणाची कामे हाती घेणे गरजेचे
आहे. राज्य शासनाप्रमाणेच सेवाभावी
संस्था, शैक्षणिक संस्था यांनी कामात
पुढाकार घेतला पाहिजे, असे प्रतिपादन
सामाजिक कार्यकर्ते किसन बोरबने यांनी
केले.

रवत शिक्षण संस्थेच्या श्रीरामपूर
येथील चंद्ररूप डाकले महाविद्यालयामार्फत
जलसंधारण जाणीव जागृती
अभियानांतर्गत आयोजित केलेल्या
कार्यक्रमात ते बोलत होते. अध्यक्षस्थानी
साहेबराव बनकर होते. यावेळी संभाजी
गमे, प्रसाद उपाध्ये, कुमार हासे, विशाल
शेळके, गोविंद बोरबने आदी उपस्थित होते.
श्री. बोरबने यांनी जलसंधारणाच्या कामाचे
महत्त्व पटवून दिले. पावसाच्या पाण्याचा
प्रत्येक थेंब जमिनीत जिरला पाहिजे, तसेच
बांधबंधारे, नाला बँडिंग यांच्यामार्फत



जलसंधारण जागृती अभियानात मार्गदर्शन
करताना किसनराव बोरबने. समवेत
साहेबराव बनकर, संभाजी गमे व मान्यवर.

वाहन जाणारे पाणी अडविले पाहिजे.
याबाबत लोकांमध्ये जागृती निर्माण करणे
गरजेचे आहे पाणी अडवा, पाणी जिरवा
यासारखी मोहीम प्रभावीपणे राबविली
पाहिजे. यावेळी साहेबराव बनकर यांनी
मनोगत व्यक्त केले. प्रास्ताविक प्रा. डॉ.
एस.आर. बखळे यांनी केले. पुणतांबा
परिसरात डाकले महाविद्यालयाचे निघाची
जलसंधारणाच्या कामात सहभागी होणार
असल्याचे त्यांनी स्पष्ट केले. संभाजी गमे
यांनी आभार मानले.

राहात्यात तर डाळि

शिडी (प्रति
समितीच्या आव
लिलावात ६ ह
आवक होऊन प
७५० रुपयांपर्यंत
५ हजार ५७५
जाली. त्यात प
२०० रुपये प्रति

राहाता बाज
रविवारी कंदा व
चात एक नंबर
दोन नंबर ४००
२०० ते ३५०
२५०, गोल्डी
भाव मिळाले.
एक नंबर डाळि
प्रतिकिलो, दो
नंबर ३१ ते ६१
मिळाले. शे
माल विक्रीस
कडून आणत
राबधान आहे
च सचिव उध

Rayat Shikshan Sanstha's



C. D. JAIN COLLEGE OF COMMERCE, SHRIRAMPUR,

TAL. – SHRIRAMPUR, DIST. – AHMEDNAGAR (M.S.)

ROOFTOP RAINWATER HARVESTING PROJECT



-: Project By :-


PRINCIPAL
C. D. Jain College of Commerce
Shrirampur


Jain Irrigation Systems Ltd.
AHMEDNAGAR



Rain Water Harvesting Project for C. D. Jain College of Commerce, Shrirampur, Dist. Ahmednagar, (M.S.)

1] ABSTRACT: -

Water is life. This is the universe truth. But this truth was earlier denied by every person. Now when they are facing the problem of water being lesser day by day, they have started to think of this problem. As the scarcity of water is rapidly increasing everyday particularly during the summer season, the demand for water also substantially increases. Previously around thirty to forty years back, the major part of the earth is unpaved and the amount of infrastructure built on the earth were also very low, hence during the monsoon season the rainwater easily percolates into the earth through the soil and the ground water level increases.

Rain water harvesting is the best AlterNet source of water.

This is the way which helps collecting water during rain time and this is a really an essay way also wan the entire world is facing the problem if water scarcity, this roof top water harvesting system has snatched there attention. The rainwater harvesting is simple collection or storing of water through scientific techniques where the rain falls. The rainwater harvesting not only helps in meeting the daily water usage but also helps in increasing the groundwater levels quality and quantity.

This is the high time when we have to make plan and design something from which we can collect water and satisfy the increasing water demand encouraging of water or more sustainable basis. This method doesn't cost too much but affect a lot.

Here in our project, we are going to adopt the roof-top rainwater harvesting method and implement it in college itself, without allowing the water to be wasted through the gutters. In this project main focus is to design the collection procedure, store the rainwater from rooftop of the Administration Building and Junior College Building of C. D. Jain College of Commerce, Shrirampur Tal. – Shrirampur, Dist. – Ahmednagar.

Key words: - Rainwater Harvesting, Roof- Top Water, Multistoried Buildings, Catchment, Ground Water, Rain Fall.

2] INTRODUCTION: -

Who can imagine few decades before that the world will have to suffer this paucity of water earlier the scenario was different and now it has changed completely. People never value the use of water they never thought that they would have to buy water in future. The time changed itself and now it's time of real difficulty so it's the time when its exchange value is given importance.

The number of people who will suffer in future because of the scarcity of water is really alarming by 2050 more than that people would live under condition of high water stress. The population in India is to expected to stabilize around 1640 million by the year 2050, as a result, gross per capita water availability will declaim from 1820 m³ in 2001 to as low as ~1140m³/Year in 2050 thus the growing concern about water scarcity challenges us to think of alternative solutions to avoid the current problem of water scarcity.

One of the biggest challenges of the 21ST century is to overcome the growing water shortage. Over the years, rising population, growing industrialization and expanding agriculture have pushed up demand for water. So that water conservation has become the need of the day.

3] AIM AND OBJECTIVE: -

The main aim of this project is to cater the need of water in Rayat Shikshan Sanstha's C. D. Jain College of Commerce, Shirampur, Dist.– Ahmednagar, (M.S.). This project will not only be helpful to fulfill the need of water to our college, but also to increase the groundwater levels and reduce the depletion of reservoirs. Keeping in mind the increasing water demands, quality of water supply, variations in water availability, and also advantages and disadvantages of collecting the rainwater, it was planned to design the rainwater harvesting in the college.

4] MATERIALS AND METHODS:-

4.1 Project area:-

Rayat Shikshan Sanstha's C. D. Jain College is a Commerce college located in Shirampur city, which is one of the major city located in the Indian state of Maharashtra. It is located about 265 Kilometers to the east of the state capital of Maharashtra (Mumbai). The average elevation of Shirampur city is about 541 meters (1,775 feet) and its geographical area is about 10 square kilometers. The city is situated in north latitude 19°62' and east longitude 74°66' in western Maharashtra.

The main purpose of constructing the rainwater harvesting in this college is to meet the increasing demand of water for utilization in college premises, main building, Jr. college building, ladies and gents hostels and staff quarters. The present population of C. D. Jain College is nearly 2,774 members which includes students, teaching and non- teaching staff. There is estimated consumption of water that is nearly 5,548 liters /day.

4.2 Data Collection:-

Rayat Shikshan Sanstha's C. D. Jain College is located in drought prone area; the average annual rainfall in the study area is hardly approx. 550 mm. The proposed study is based on data collected from field work, Socio Economic Reviews, district statistical reports articles, books and study area.

Uses for	Consumptions in liter / day
Students, Teachers and Non-teaching staff	5,548
Drinking Water	4,000
General Garden	2,400
Washing floors, Labs, Offices & Classrooms	2,000
Toilets	3,000
Others	1,000
Total	17,948

Table: 1 Daily water usage of CDJ College, Shirampur.

4.3 Rain fall:-

The average rainfall of all the years is taken into consideration while computing the average rainfall data (in mm). This rainfall data is essential for calculating the total discharge into the pipeline and also an essential factor during the design of storage tank. Hence, in our project we considered the rainfall data of previous five years, from the year 2012-2016. In this 2010-2011 shows high rainfall and 2014-2015 shows that very less rainfall this available rainfall will automatically reflects on Ground water table in particular area.

Year	Average Rain fall (mm)
2012	502
2013	489
2014	337
2015	457
2016	524
Average	461.8

Table: 2 Average rainfall data (mm) Shrirampur.

The climate of the district is characterised by a hot summer and general dryness throughout the year except during the southwest monsoon season, i.e. June to September. The mean minimum temperature is 12.3°C and mean maximum temperature is 39.1°C. The normal rainfall over the district varies from 454 mm to about 879 mm. The area being situated in “Rain Shadow” zone of Western Ghats, it often suffers the drought conditions. The average annual rainfall in the Shrirampur area is 550 mm.

5] DESIGN OF ROOF TOP RAIN WATER HARVESTING SYSTEM:-



To design the roof-top rainwater harvesting system we need to design six main steps, they are as follows.

1. In the first step we have to determine the total amount of water required for daily usage in college.
2. Amount of available rainwater
3. To design the proposed catchment area.
4. To design the transportation system.
5. First -flushing.
6. In the final step we will compute the amount of storage reservoir required.

5.1 Determine the total amount of water required:

To determine the amount of water required the daily water consumption in the college must be known. Hence, this data can be borrowed from the table 1, which is given above.

5.2 Amount of available rain water:

We can calculate the amount of available rain water from the below calculations:

Mean annual rain water supply(S)

Average rainfall of Shirampur = 461.8 mm

Considering 470 mm for future

Average rainfall (R) = 470 mm

The average rainfall in terms of meters per year (R) =0.47m/year

Catchment Area (A) = 902.26 m²

Run off coefficient (Cr) = 0.8

Mean annual rain water supply(S) =Average rainfall X Area of catchment X Runoff coefficient (R*A*Cr)

$S=0.47*902*0.8$

= 339.15 cubic meter / year

= 339.15*1000

= 339152 liter / year

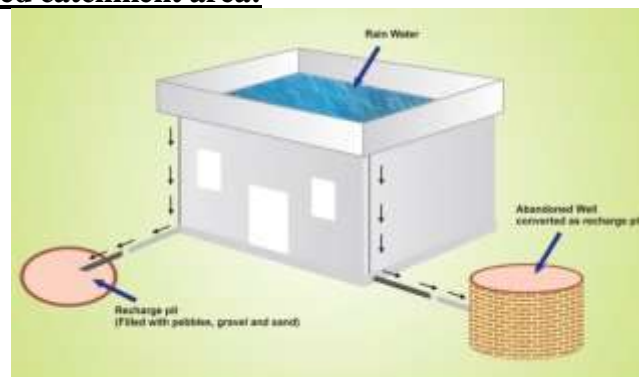
= 28.26 cubic meter / month

= 28262 liter / month

= 0.942 cubic meter / day

= 942.083 liter / day

5.3 Design of proposed catchment area:



The catchment of water harvesting system is the surface that receives rainfall directly and drains the water system. Any roofing material is acceptable for collecting of water. From the design of the terrace floor, we calculated total rooftop area of the C. D. Jain College, Shrirampur Jr. College Building and also Administration Building.

Area of the C.D. Jain College Jr. College Building = 624.68 m²

Area of the C.D. Jain College Administration Building = 277.58 m²

Total area of proposed catchment = 902.26 m²

5.4 Design of transportation system:

For transporting the rain water from the catchment area, in this project we are using Soil, Waste and Rain water (SWR) pipes and fittings and Under Ground Drainage & Sewerage (UDS) pipes and fittings. For vertical transportation purpose, we are using SWR pipes of 2.5 and 4 inches diameter. And for the underground transportation purpose we are using the UDS pipes of 6-inches diameter.

The number of pipes and fittings required for the transportation are taken as per the topographical conditions.

Drainage & Sewerage Pipe
 Rang : 80 mm to 400 mm with DN-900/1m² to DN-900/1m² stiffness rating. Available both in Rubber Ring Socket & Plain Socket types.
Standards
 IS 15320, IS EN 1401
Application
 • Specially Recommended for Underground Drainage/Sewerage Systems
 • Industrial Effluent Conveyance
 • Storm Water Drainage

SWR Pipes
 Rang : 25 mm (1 1/8") to 150 mm (6")
 Available both in Rubber Ring Socket & Plain Socket types. Type 'A' & Type 'B'
Fittings: Fittings available in 75 mm, 90mm, 110 mm, 150 mm sizes
 150 mm also available in Click Ring type.
Standards:
 IS 15392, IS 14726, ISO 3100
Applications:
 • Soil & Waste Discharge System
 • Rain-water Harvesting System
 • Ventilation System

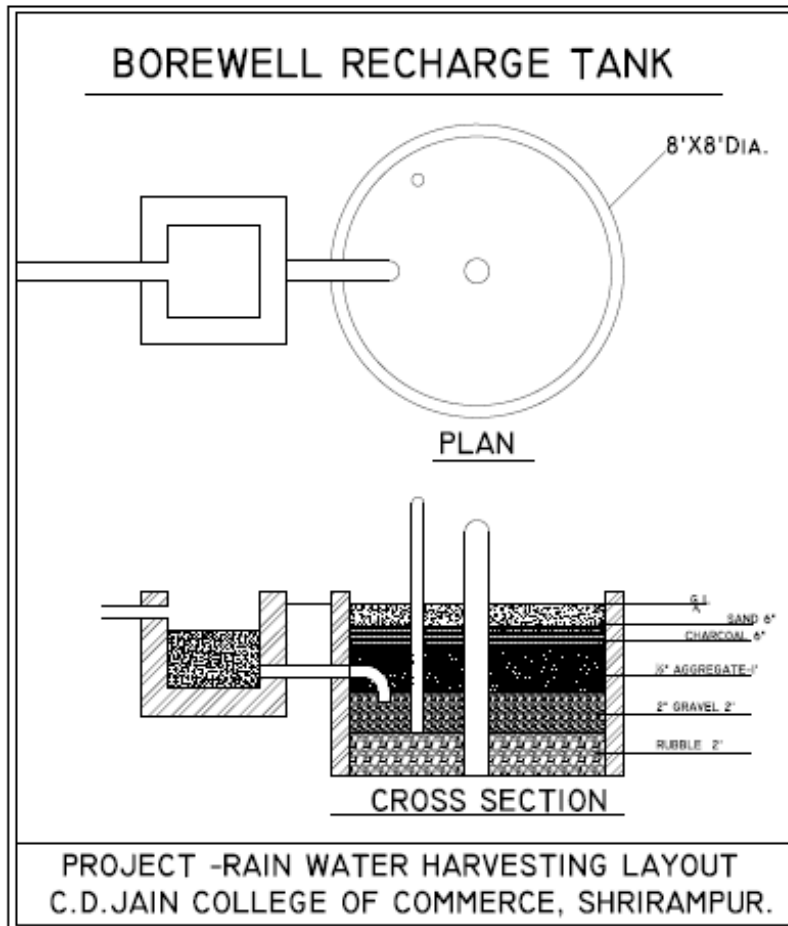


5.5 First-flushing:

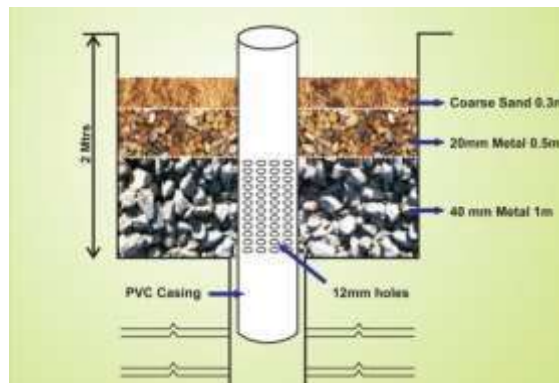
A first flush device is a Jain Filtrain that ensures that runoff from the first spell of rain is flushed out and does not enter the system. This needs to be done since the first spell of rain carries a relatively larger amount of pollutants from the air and catchment surface.



5.6 Storage reservoir computation:



In the sand filters, the main filtering media is commonly available sand sandwiched between two layers of gravels. The filter can be constructed in a cement concrete tank. This is a simple type of filter which is easy to construct and maintain. The sand filters are very effective in removing turbidity, colour and microorganism. In a simple sand filter that can be constructed domestically, filter media are placed. And Charcoal filter is almost similar to sand filter except that a 10-15cm thick charcoal layer placed above the sand layer. The Charcoal layer inside the filter results into better filtration and purification of water. The charcoal water filter is a very commonly used.



6] CONCLUSION:-

This study evaluated the feasibility of rainwater harvesting in a locality of Rayat Shikshan Sanstha's C. D. Jain College of Commerce, Shirampur where there is a need of water for use of laboratories, drinking water, Ladies and Gents hostels and teaching and non-teaching staff to the approximately 3000 number of people regularly throughout the year. It was found that amount of harvested rainwater could be stored in soak pit for recharging bore well water level in campus.

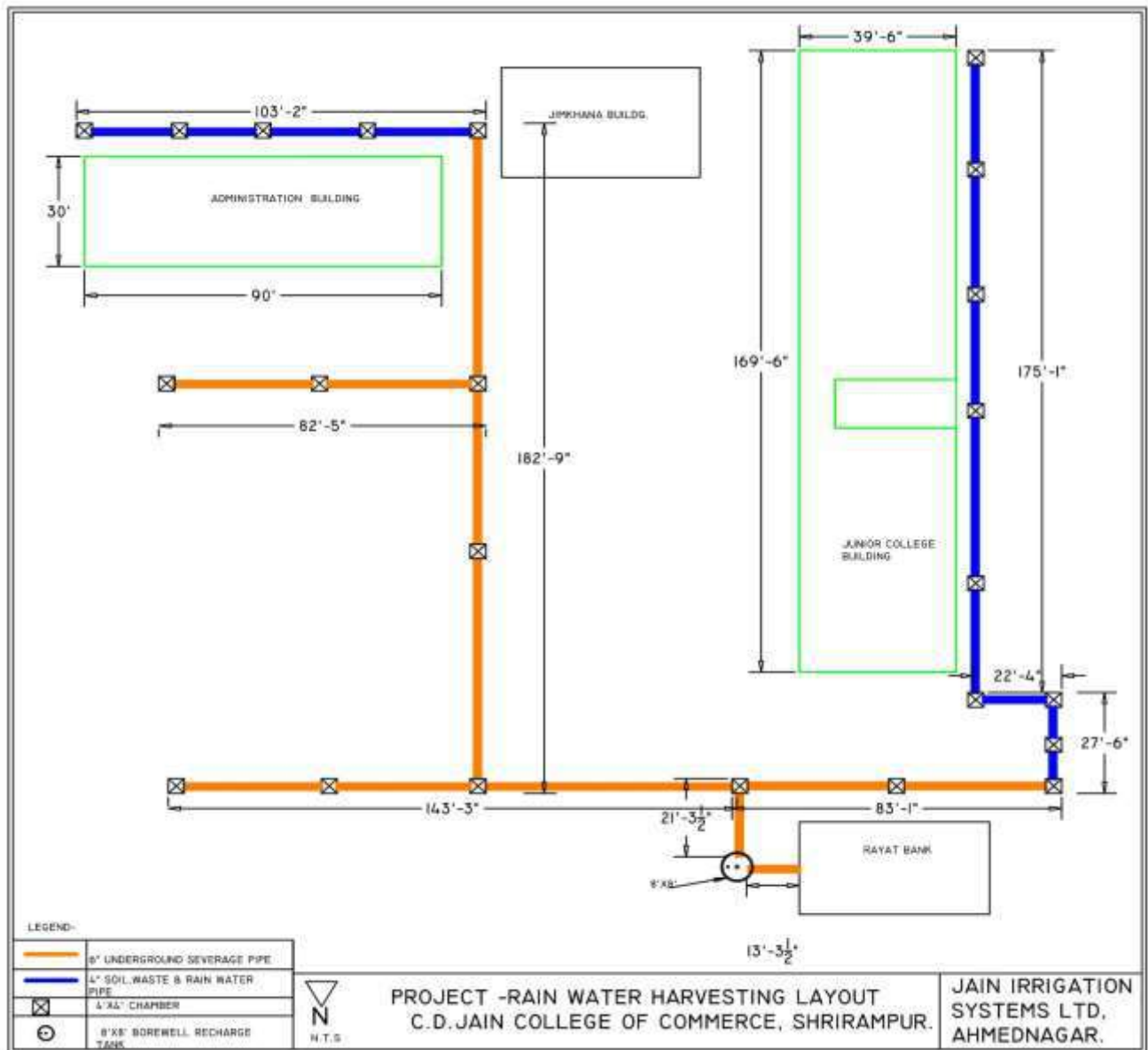
There are so many misconceptions in the world and rain water is no exception. When people think about rainwater, they often erroneously think that it contains pollutants but the truth is that rain water is extremely clean and safe, so in such area if rainwater can be collected and stored in a proper and scientific manner, management of water resources would enter a new era. Since the discussed roof harvesting technology does not have any harmful effect on the environment.

Rain water harvesting seems to be a beneficial and sustainable method, therefore advocacy for the adaptation of rain water would certainly lead to a reduction of problems related to water shortage. A planned approach is hence needed in order to fully utilize the potential of rainwater to adequately meet our water requirements. Hence, an equal and positive thrust is needed in developing and encouraging both harvesting systems. We have to catch water in every possible way and every possible place it falls. And the government has to make considerable amount of attention for the implementation of rainwater harvesting, and enact laws which promote the practice of rainwater harvesting by reducing the sales tax on the rainwater harvesting equipment and also redemption on taxes for the buildings which are using rainwater harvesting.

7] REFERENCE:-

1. CENTRAL GROUND WATER BOARD - Aquifer Maps and Ground Water Management Plan.
2. RAINFALL SPATIAL DISTRIBUTION IN AHMEDNAGAR DISTRICT (MS)
Conference Paper · January 2016
3. International Journal of Recent Advances in Engineering & Technology (IJRAET)
4. International Journal of Civil Engineering and Technology (IJCET) –
5. JAIN IRRIGATION SYSTEMS LTD. RAIN WATER HARVESTING REPORT
(RESEARCH AND DEVELOPMENT DEPT.)

8] SCHEMATIC LAYOUT DRAWING OF RAINWATER HARVESTING PROJECT AT C. D. JAIN COLLEGE OF COMMERCE, SHRIRAMPUR:-

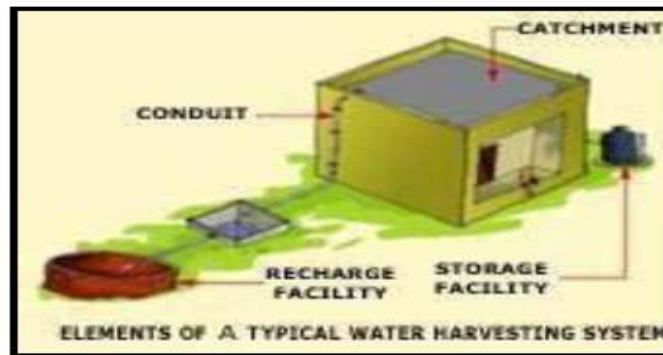
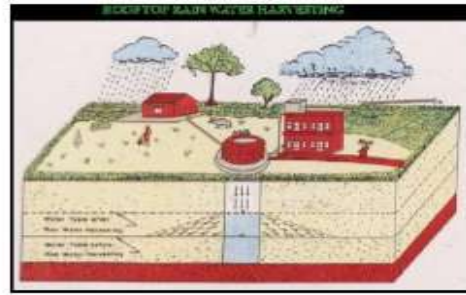


Principal
C.D.Jain College of Commerce,
Shrirampur



Rahul Waghunde
Head
M.No: 9422775930

- Design of transportation system:



For transporting the rain water from the catchment area in this project we have used Polyvinyl chloride (PVC) pipes and fittings. For the collection purpose, we are using pipes ranging 2.5 - 3 inches diameter. A care has been taken that the first spell of rain is flushed out and does not enter the system. This is done since the first spell of rain carries a relatively larger amount of pollutants from the air and catchment surface. Rain water from girl's hostel rooftop is transferred into specifically designed dug well near the bore well of girls hostel. Rain water harvesting is the process of collecting, conveying and storing water from rainfall in an area. Institution has Roof Top Rain Water Harvesting System of catching rainwater where it falls. Rainwater is collected from rooftop of the building is diverted through pipes to bore well. Clear water then passes to bore well to recharge the groundwater.



Principal
C.D.Jain College of Commerce,
Shrirampur

Water Harvesting



Principal
C.D.Jain College of Commerce,
Shrirampur

Waste Management

A. vermi compost plant in college (use of bio-fertilizers):

Waste disposable color dustbins are kept in the campus area to distinguish biodegradable waste and Non Disposable waste. Garden waste and other waste are collected from different areas of campus and processed for vermi compost. The ready compost used for the plants and garden purpose. The MOU signed with Ashok Sahkari Sakhar Karkhana Ltd. Ashoknagar, a cooperative sugar factory for expert guidance on vermi culture process of biodegradable waste. Dry waste mainly leaves of tress are collected and used for compost plant in the campus premises.



Principal
C.D.Jain College of Commerce,
Shrirampur



महाराष्ट्र MAHARASHTRA

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MEMORANDUM OF UNDERSTANDING FOR FIELD TRAINING (MOU)

We the undersigned parties.

1. Rayat Shikshan Sanstha's ,C. D. Jain College of Commerce, Shrirampur, Dist. Ahmednagar, 413709
2. The Ashok Cooperative Sugar Factory Ltd. Ashoknagar, Tal:-Shrirampur, Dist:- Ahmednagar are considering that,

Objective of Agreement:-

1. To study the formation and working of Ashok Cooperative Sugar Factory Ltd., Ashoknagar.
2. To Study organization and management of Ashok Cooperative Sugar Factory Ltd., Ashoknagar by undergraduate, Post Graduate and Research Students.
3. To Avail Library Facility of C. D. Jain College of Commerce, Shrirampur to the Employee and Executives of the Ashok Cooperative Sugar Factory Ltd., Ashoknagar
4. To provide research opportunity to students of C. D. Jain College of Commerce, Shrirampur.
5. To provide job training opportunity to students of C. D. Jain College of Commerce, Shrirampur.

Facilities to be provided-

1. To arrange guest lectures of executives of Ashok Cooperative Sugar Factory Ltd., Ashoknagar By C. D. Jain College of Commerce, Shrirampur.
2. To arrange industrial visits to study the management and working of Ashok Cooperative Sugar Factory Ltd., Ashoknagar.

जोड़पत्र - २ / Annexure - II

स्वा प्रकार / अनुच्छेद क्रमांक -- २१. ११११

संशोधनी कारण ज्ञात का ? -- होय/नाही

श्री होशार असाधारण दुग्धम निबंधक कार्यालयचे नांव -

इतीचे दर्शन

ला रकम

विकत घेण्याचे नांव

पत्राकाराचे नांव

असाधारण रत्याचे नांव व पत्ता

विक्री नोंद घेई अनु. क्रमांक ७६३७/१०

विकत घेण्यासाठी चही



S.P.J./99/M.D. BHALERAO

राहतील बंधाळ, श्रीरामपूर, दिनांक

श्रीरामपूर ज्येष्ठ मुद्रांक खरेदी केला त्यांनी त्याच कारणासाठी

मुद्रांक खरेदी केल्यापासून ६ महिन्यात वारंवार बंधन कारका आहे

29 DEC 2017

Benefits:-

1. This M.O.U. will be beneficial to under graduate, Post graduate and research Students of C. D. Jain College of commerce shrirampur.
2. Research will be beneficial to Ashok Cooperative Sugar Factory Ltd., Ashoknagar and other Cooperative sugar Industry.
3. Research on sugar Industry will be fruitful to agriculturalist.

Agreement:-

Therefore, the above mentioned parties engage into the agreement

1. Start industrial visits to Ashok Cooperative Sugar Factory Ltd., Ashoknagar.
2. Arrange guest lectures of executives of Ashok Cooperative Sugar Factory Ltd., Ashoknagar.

Rule of the Party

C. D. Jain College of Commerce, Shrirampur, Dist. Ahmednagar.

1. Provide and maintain data base of commerce students under its affiliation
2. Provide prospective candidates for training
3. Provide guidance to Commerce Students.
4. Arrange guest lectures of faculty of C. D. Jain College of Commerce and Executives of Ashok Cooperative Sugar Factory Ltd., Ashoknagar.
5. This M.O.U. is only for Educational purpose. No financial and other burden will be created on both the parties.





General Manager

Ashok Cooperative Sugar Factory Ltd.
Ashoknagar



Principal

C. D. Jain College of Commerce
Shrirampur



रयत शिक्षण संस्था, सातारा
(संगणक साहित्य (ई वेस्ट), इलेक्ट्रीकल साहित्य, अभ्यासक्रमातून कालबाहय झालेली स्टेशनरी)

दि. २०-०९-२०१८

जा.क्र - १४०२२९

प्रति,
सर्वश्री प्राचार्य
रयत शिक्षण संस्था,

विषय - संगणक साहित्य (ई वेस्ट), इलेक्ट्रीकल, इलेक्ट्रॉनिक्स साहित्य, अभ्यासक्रमातून कालबाहय झालेली स्टेशनरी कमी करण्यासाठी सोबत देत असलेल्या नमुण्यानुसार यादी करणेबाबत संदर्भ - संदर्भपत्र. जा. क्र. १९४१७, दि. ०३/०२/२०१७ व जा.क्र. १०९४७/४८, दि. २५/०७/२०१७ नुसार

संस्थेच्या सर्व शाखेतील संगणक साहित्य, इलेक्ट्रीकल, इलेक्ट्रॉनिक्स साहित्य तसेच अभ्यासक्रमातून कालबाहय झालेली स्टेशनरी शाखेच्या डेडस्टॉक रजिस्टर नोंदीनुसार कमी करण्यासाठी सोबत देत असलेल्या नमुण्यामध्ये चार प्रतिमध्ये यादया तयार कराव्यात संस्थेमार्फत आपल्या शाखेसाठी नियुक्त केलेली कमिटी प्रत्यक्ष शाखेमध्ये येऊन पुढील प्रमाणे साहित्य कमी करण्यासाठी शाखेच्या डेडस्टॉक रजिस्टर नोंदी नुसार पाहणी व साहित्य निकामी, वापरास अयोग्य, अभ्यासक्रमातून कालबाहय झालेले आहे याची खात्री करतील व सोबत दिलेल्या नमुण्यानुसार (यादीनुसार) शाखेतील साहित्य कमी करण्यासंदर्भात शाखेस व संस्थेस शिफारस करतील.

साहित्याच्या यादीच्या चार प्रति पैकी एक प्रत शाखेमध्ये ठेवावी व तीन प्रति कमिटी सदस्यामार्फत ऑडिट विभाग रयत शिक्षण संस्था, सातारा येथे तपासणी व मंजूरीसाठी पाठवावी मा. ऑडिटर रयत शिक्षण संस्था, सातारा व मा. सचिव रयत शिक्षण संस्था, सातारा यांची मंजूरी व संस्था पातळीवरील निर्णयानुसार साहित्य कमी करण्यासाठी संस्थेमार्फत शाखेस कळविले जाईल. त्यानंतरच सदर साहित्य आपल्या शाखेतील डेडस्टॉक रजिस्टर वरून कमी होईल याची नोंद घ्यावी. शाखेतील साहित्य कमी करण्यासंदर्भात काही अडचणी किंवा शंका असल्यास ऑडिट विभाग, रयत शिक्षण संस्था, सातारा व श्री. सूर्यकांत पोरे (९८२२०७६२६७) समन्वयक, के आय आय टी, सातारा यांच्याशी संपर्क साधावा.

१. संगणक व संगणक साहित्य (ई वेस्ट) सन २००९-१० पूर्वी खरेदी केलेले तसेच देणगी स्वरूपात मिळालेले बापरून खराब झालेले जुने संगणक, मॉनिटर, प्रिंटर, स्कॅनर, कि बोर्ड, माऊस, यूपीएस बॅटरी व इतर संगणक साहित्य (ई वेस्ट साहित्य)

२. इलेक्ट्रीकल, इलेक्ट्रॉनिक्स साहित्य - या मध्ये प्रामुख्याने (फॅन स्वीचेस, वायर, जुनी मोटर, टीव्ही, साऊंड सिस्टीम, यांचा समावेश होतो. सदर साहित्य निकामी, वापरास अयोग्य, अभ्यासक्रमातून कालबाहय झालेले आहे याची खात्री करावी.

३. अभ्यासक्रमातून कालबाहय झालेली स्टेशनरी - यामध्ये प्रामुख्याने प्रयोगवहया, स्वाध्याय वहया, पॉकेट डिक्शनरी, व्यक्तीमत्त्व विकास, टिटोरियल वहया, जर्नल्स, व्यवसाय मार्गदर्शन अंक, व इतर विद्यार्थ्यांना द्यावी लागणारी अभ्यासक्रमाशी निगडित प्रकाशने याबाबतीत पहात असतांना खालील बाबीची पहाणी करावी. सदरची प्रकाशने अभ्यासक्रमातून बाद झालेली आहेत का याची प्रत्यक्ष खात्री करावी.

सदरचे सर्व साहित्य तयार केलेल्या यादीनुसार एका बाजूस मांडून प्रत्यक्ष पहाणी वेळी सदस्यांना दाखवून घ्यावे. अभ्यासक्रमातून कालबाहय झालेली स्टेशनरी, वर्ष व यादीप्रमाणे स्टॉक रजिस्टर नंबरनुसार एका बाजूस काढून प्रत्यक्ष ठेवावे व स्टॉक रजिस्टरनुसार शिल्लक व प्रत्यक्ष शिल्लक यांची शाखाप्रमुख यांनी खात्री करावी. तसेच स्टॉक रजिस्टर अद्ययावत करावे.

पान. नं. २ वर

साहित्य कमी करण्यासंदर्भात शिफारस करण्यापूर्वी खालील बाबीची काळजी घ्यावी.

- शाखेतील संगणक साहित्य (फक्त संगणक व संगणक साहित्य सन २००९-१० पूर्वीचे) खरेदी केलेले तसेच देणगी स्वरूपात मिळालेले बापरून खराब झालेले संगणक साहित्य (ई पेस्ट), इलेक्ट्रीकल, इलेक्ट्रॉनिक्स साहित्य, तसेच अभ्यासक्रमातुन कालबाहय झालेली स्टेशनरी यांची शाखेच्या डेडस्टॉक रजिस्टर नोंदीनुसार यादी करावी व संदर साहित्य खराब झाले असल्याची व कालबाहय झाल्याची खात्री करावी.
- संस्थेच्या नियमानुसार साहित्याची माहिती सोबत देत असलेल्या विहित नमुप्यानुसार (संस्था ऑडिट विभाग) शाखेने चार प्रतिमध्ये तयार केलेली असावी. तसेच सदर यादीवरती शाखाप्रमुख व विभागप्रमुख यांचे नाव, सही व शाखेचा शिक्का असावा.
- यादी मधील सर्व साहित्याची नोंद शाखेच्या डेडस्टॉक मध्ये असणे आवश्यक आहे. तसेच सदर साहित्यावर डेडस्टॉक मधील साहित्याचा नंबर लिहिलेला असावा.
- संस्थेमार्फत शाखेनुसार नियुक्त केलेली कमिटी सदस्य प्रत्यक्ष शाखेमध्ये येऊन संगणक साहित्य, इलेक्ट्रीकल साहित्य, व अभ्यासक्रमातुन कालबाहय झालेली स्टेशनरी यांची शाखेच्या डेडस्टॉक रजिस्टर नोंदी नुसार पाहणी व खात्री करतील तसेच साहित्यावर नंबर टाकलेले संगणक साहित्य, इलेक्ट्रीकल, इलेक्ट्रॉनिक्स साहित्य संस्थेमार्फत देण्यात आलेल्या नमुप्यानुसार शाखेने तयार केलेल्या यादीप्रमाणे (चारप्रतिनुसार) शाखेतील सदर साहित्य कमी करण्यासंदर्भात शाखेस व संस्थेस शिफारस करतील.
- वरील प्रमाणे सर्व माहिती शाखेने कमिटी शाखेस भेट देण्यापूर्वी दोन दिवस आधी शाखेमध्ये तयार केलेली असावी. व नंतरच कमिटीस शाखेस भेट देण्यासंदर्भात कळवावे.
- अभ्यासक्रमातुन कालबाहय झालेली स्टेशनरी, प्रकाशने स्टॉक रजिस्टरनुसार प्रत्यक्ष स्टॉकची पहाणी करून वर्षानुसार व रजिस्टरनुसार तसेच यादीप्रमाणे सदरचे अंक बरोबर आहेत का याची खात्री करावी. स्टेशनरी साहित्य मिळाल्याचे वर्ष, शाखेस मिळालेले एकूण नग (संख्या), दर रु. (किंमत), एकूण रक्कम रु., विक्री झालेली एकूण नग (संख्या), शिल्लक नग(संख्या), प्रत्यक्ष पाहणीच्या वेळी शिल्लक नग (संख्या), कमी करण्याचे कारण इत्यादी माहितीनुसार यादी तयार करावी. व त्याची समक्ष खात्री करावी.
- अभ्यासक्रमातुन कालबाहय झालेली स्टेशनरी, शाखेमध्ये मोठ्या प्रमाणत शिल्लक असल्यास सदरचे साहित्य कोणत्या वर्षात खरेदी केले व अभ्यासक्रमातून बाद होईपर्यंत विक्री का केली नाही याची पाहणी करावी. व त्याबाबतची माहिती सोबत जोडावी.
- अभ्यासक्रमातुन कालबाहय झालेली स्टेशनरीचा प्रत्यक्ष स्टॉक पहावयास नसेल तर तसे स्पष्ट नमुद करावे. व त्याबाबतची माहिती सोबत घावी.
- शाखेस भेट देणा-या कमिटीने साहित्य कमीच्या यादया तीन प्रतिमध्ये विभागप्रमुख व शाखाप्रमुख यांच्या सहीसह व सोबत दिलेल्या कमिटी सदस्य शाखा भेट अहवालसह शाखेनुसार ऑडिट विभाग, रयत शिक्षण संस्था, सातारा येथे जमा करावे.
- साहित्य कमी करण्यासाठी कमिटी ज्या दिवशी आपल्या शाखेस भेट देण्यासाठी येणार असेल त्यावेळी संबंधित विभागप्रमुख व शाखाप्रमुख यांनी शाखेमध्ये उपस्थित असणे आवश्यक आहे.

प्रत माहितीसाठी -

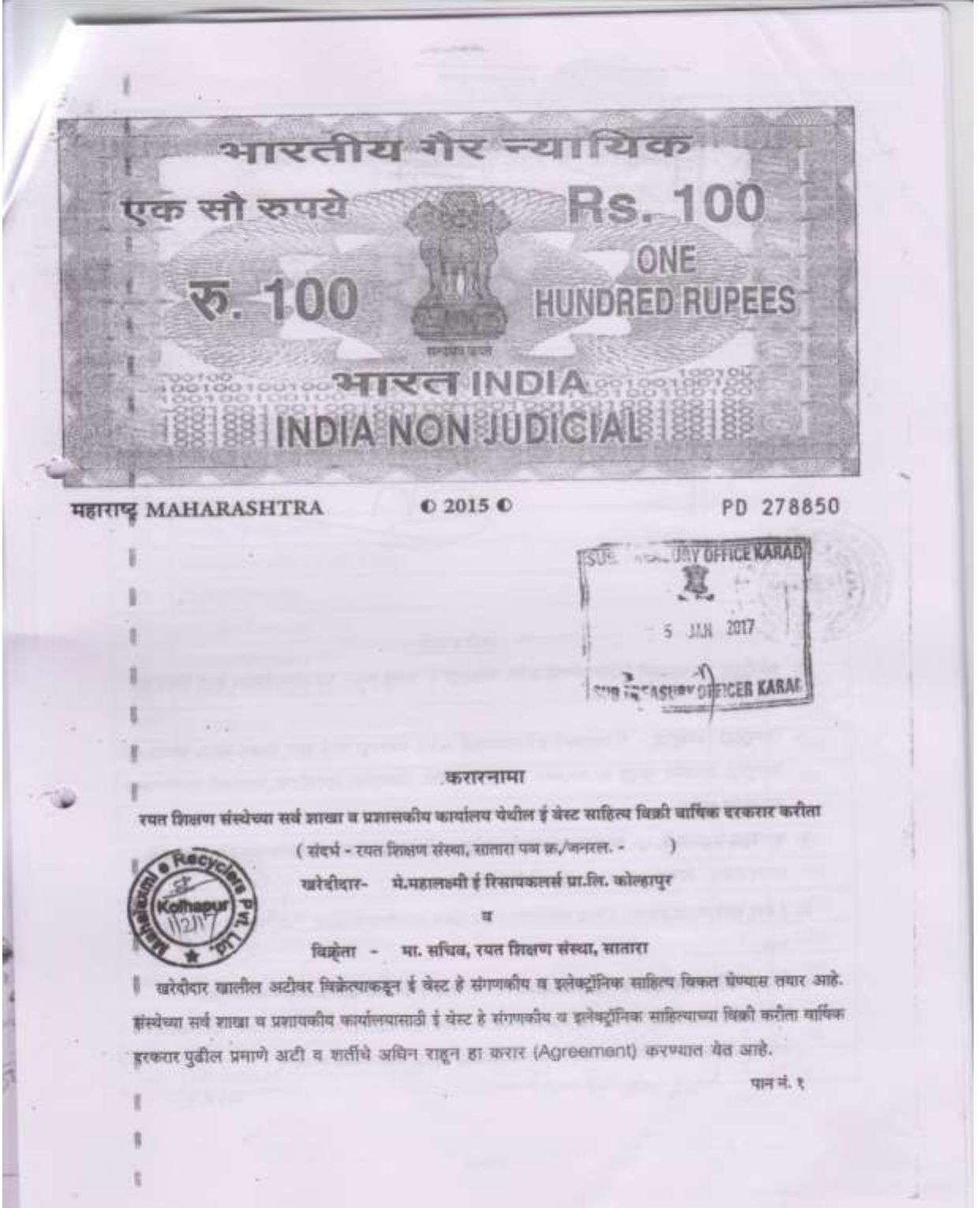
- सहसचिव, (उच्च.शिक्षण), रयत शिक्षण संस्था, सातारा
- ऑडिटर, रयत शिक्षण संस्था, सातारा


सचिव,

रयत शिक्षण संस्था, सातारा



**Agreement of Rayat Shikshan Sanstha with Mahalakshi
E-Recyclers Pvt. Ltd. Kolhapur**



१३. करार बंधनकारक - सदरचा करार खरेदीदार (लिहून घेणार) व विक्रेता (लिहून घेणार) यांचेवर तसेच

यातीलवारस यांचेवर बंधनकारक आहे.

१४. नियम व अटी सर्व अधिकार- सदर करारामध्ये नमूद केलेल्या नियम व अटीबाबत सर्व अधिकार सचिव,

रयत शिक्षण संस्था, सातारा यांनी राखून ठेवले आहेत.

१५. न्यायालयीन कार्यक्षेत्र - सदर करारासंबंधीच्या तक्रारीबाबतची न्यायालयीन कार्यक्षेत्र में. सिविल नज्ज,

सिनिअर डिप्टिमेन सातारा यांच्या कक्षेत राहिल.

घरील सर्व नियम व अटी भंग होणार नाहीत याची दखता मे.महालक्ष्मी ई रिसायकलर्स प्रा.लि. कोल्हापूर व

सचिव. रयत शिक्षण संस्था, सातारा यांनी घ्यावी.

येणेप्रमाणे करार असे.

खरेदीदार (लिहून घेणार) - श्री. मनोज प्रकाश मोहता



मे.महालक्ष्मी ई रिसायकलर्स प्रा.लि. कोल्हापूर
प्लॉट नं. नं.५, गोकुळनगर एम.ठाय.डी.सी
कोल्हापूर - ४१६२३४ मो नं - ७२७६४१९८२६

विक्रेता (लिहून घेणार) - सचिव. रयत शिक्षण संस्था, सातारा



माननीय प्राचार्य, डॉ. गणेश अनंत ठाकूर

रयत शिक्षण संस्था, सातारा

साक्षीदार : १) नाव दिनामनराज देवराज करीत सती

: २) नाव यशवी रजताश डेवरे सती

करारसोबत लागूदपत्र खालीलप्रमाणे :

१. ई वेस्ट साहित्य खरेदी दिनांक ०१/०३/२०१७ पासून दिनांक ते ३१-०९-२०१८ पर्यंतचे मंजूर दरपत्रक

- रयत शिक्षण संस्था, सातारा

२. मे.महालक्ष्मी ई रिसायकलर्स प्रा.लि. कोल्हापूर कंपनीच्या संयक्तसाठीची माहिती, संपर्क व्यक्तीचे नाव,

ई-मेल, मोबाईल नंबर, टेलिफोन नंबर इ. माहिती तसेच संस्थेच्या शाखा असलेल्या जिल्ह्यानुसार कंपनीचे

सेंटर फोन नंबरसह यादी - मे.महालक्ष्मी ई रिसायकलर्स प्रा.लि. कोल्हापूर.

Mahatma & Recyclers Pvt. Ltd.
Plot No. 5, MIDC, Chavli Shirgaon,
KOLHAPUR - 416 234
(Mahatma-India)
Contact: + 91 - 7776411026
emai: manoj@recyclebh.com



"स्वायत्त शिक्षण हेतु आमचे ड्रीम" - कर्मवीर
रयत शिक्षण संस्था, सातारा

संस्थापक : कर्मवीर भाऊराव पाटील, डी. लिट.

स्थापना : १९९९

Website : www.rayatshikshan.edu

E-mail : secretary@rayatshikshan.edu

Fax No : (02162) 231424

कक्षा नं. : २३१४२४

(एन.टी.डी.) ४०१५६२

☎ २३१५६६, २३१५७०

२३२५४२, २३२५५६, २३२५७०

सामेचा पत्ता : 'कवठ'

जिल्हा नं. :

दिनांक :

पान नं. २

५. मे.महालक्ष्मी ई रिसायकलर्स प्रा. लि., कोल्हापुर यांना दिलेल्या ई वेस्ट संगणक व संगणक साहित्याची यादी व बिलाची रक्कम याबाबतची माहिती आपल्या विभागीय कार्यालयास कळवावी.
६. मंजूर दरपत्रकानुसार ई वेस्ट साहित्य विक्रीचे दर हे वाहतुक, हमाली, व इतर सर्व करासह मंजूर केले आहेत त्यामुळे शाखेकडून वाहतुक, हमाली व इतर खर्चासाठी कोणतीही रक्कम खरेदीदार मे.महालक्ष्मी ई रिसायकलर्स प्रा.लि. कोल्हापुर यांना देऊ नये.

खरेदीदार कंपनीची संपर्कासाठीची माहिती - श्री. मनोज प्रकाश मेहता फोन - ७२७६४९९८२६
मे.महालक्ष्मी ई रिसायकलर्स प्रा.लि. कोल्हापुर
प्लॉट नं. ५, गोकुळशिरगाव एम.आय.डी.सी,
कोल्हापुर-४१६२३४

सचिव,

रयत शिक्षण संस्था, सातारा

प्रत माहितीसाठी -

- मा. सहसचिव (उच्च शिक्षण), रयत शिक्षण संस्था, सातारा
मा. सहसचिव (माध्य. शिक्षण), रयत शिक्षण संस्था, सातारा
मा. ऑडिटर, रयत शिक्षण संस्था, सातारा
मा. सर्व विभागीय अधिकारी, रयत शिक्षण संस्था, सातारा

BILL OF SUPPLY FOR THE MONTH OF

GSTIN: 27AAECM2933K1ZB

Website: www.mahadiscom.in

Oct-2021

TSN CODE: 27160000

AHMEDNAGAR CIRCLE - 570 SHRIRAMPUR DIVISION - 576 SHRIRAMPUR

Consumer No. : 850710398295
Consumer Name : SOLAR NET METER (10.00 KW)
Address : SHRI C. D. J. COLLEGE
COLLEGE AREA
SHRIRAMPUR, DIST. A. NAGAR

DU 4039	Bill No: 000001384972189
BILL DATE :	₹
DUE DATE :	14/11/2021 0.00
IF PAID UPTO :	04/12/2021 ₹
IF PAID AFTER :	20/11/2021 ₹
Last Receipt No./Date :	04/12/2021 0.00
Last Month Payment :	18-01-2021
Scale / Sector :	0.00

Village : SHRIRAMPUR Pin Code : 413709 Activity : Large Scale / Private Sector

E-mail: Meter No.: 0234338 Seasonal :
Sanctioned Load (KW): 10.00 Connected Load (KW): 10.00 Urban/Rural Flag : R Express Feeder Flag : N
Contract Demand (KVA): 10.00 50% of Con. Demand (KVA): 10.00 Feeder Voltage (KV):
Tariff: 73 LT VII B1 DTC: 8390239 GIS Dtc/Pole PC MR ROUTE SEQ 00-10-5019-1210

Date of Connection: 01/02/2011	Category: Public Services Other	GSTIN:
Supply at: LT	Elec. Duty: 06 PART B Reader	PAN:
Prev. Highest (Mth):	Prev. Highest Bill Demand (KVA):	M30_EXCEPTIONAL
Security Deposit Held Rs.: 23010.00	Addl. S.D. Demanded Rs.: 0.00	
Bank Guarantee Rs.:	S D Arrears Rs.: 0.00	

Maintain Harmonic distortion within limit as prescribed by IEEE STANDARD 519-1992 to avoid penalty

Avail Power factor incentive up to 3.5% maintaining power factor above 95% to 100%

Avail load factor Incentive up to 15% by maintaining constant load profile.

Avail 1% prompt payment discount by paying bills within prompt payment date.

BILLING HISTORY			
Bill Month	Units	Bill Demand(KVA)	Bill Amount
Sep-2021	0	0	373.00
Aug-2021	0	0	373.00
Jul-2021	0	0	373.00
Jun-2021	0	0	884.83
May	0	0	373.00
Apr-2021	0	0	373.00
Mar-2021	0	0	364.20
Feb-2021	0	0	362.00
Jan-2021	0	0	362.00
Dec-2020	0	0	362.00
Nov-2020	0	0	362.00
Oct-2020	0	0	362.00

CUSTOMER CARE Toll Free No. 1912,1800-233-3435, 1800 102-3435

Rule & Procedure for Consumer Grievances Redressal is available at www.mahadiscom.in>consumer portal->CGRF

Instead of Printed bill, register for E-bill and avail Rs. 10 per bill as a "Go-green" discount.

For registration visit at www.mahadiscom.in>consumer portal->Quick access->Go-green request

For making Energy Bill payment through RTGS/NEFT mode, use following details.
Beneficiary Name: MSEDCL
Beneficiary account no.: MSEDCL01850710398295
IFS Code: SBIN0008965, Name of Bank : STATE BANK OF INDIA, Name of Branch: IFB BKC
Bill Amount:<As per bill>
Disclaimer: Please use above bank details only for payment against consumer number mentioned in beneficiary account number.
In case of energy bill paid through NEFT / RTGS, date of amount credited in MSEDCL bank account will be considered as bill payment date.

MAHAVITARAN
महाराष्ट्र राज्य विद्युत वितरण कंपनी मर्यादित

STAY HOME, PAY ONLINE & STAY SAFE
FOR MORE DETAILS VISIT WWW.MAHADISCOM.IN
OR
CALL MSEDCL TOLL FREE 1912 / 19120 / 1800-102-3435 / 1800-233-3435

MSEDCL ONLINE PAYMENT FACILITY

- Pay Online to Save your Time and Money
- Safe and Secure
- Pay Online from MSEDCL Official Website, Mahaviraran Mobile App.
- Online payment facility available through Net-Banking, Credit Card, Debit Card, Cash Cards, UPI etc.
- o.25% discount (up to Rs.500) in next month Bill.
- RTGS Payment facility for HT and LT consumers above 20kW load' For RTGS payment, virtual account number of Consumer and bank details are printed on Consumer bill.

Important Message

- Consumers can pay online using Net banking, Credit/Debit cards at <https://ws.mahadiscom.in/ws/wss> after registration.
- Submit/ update your E-mail Id and mobile number to Circle Office for receiving prompt alerts through SMS.
- Submit/ update your PAN & GSTIN to circle office with copies of PAN & GSTIN for verification.
- Special desk is operational for HT Consumers, please contact: htconsumer@mahadiscom.in for any clarification / query or grievance.
- This Electricity Bill should not be used for the address proof and as a proof of property ownership.
- For any payment to MSEDCL, ENSURE & INSIST for computerized receipt with unique system generated receipt number. Do not accept hand written receipt. Pay online to avoid any inconvenience.

CURRENT CONSUMPTION DETAILS

Reading Date	KWH	KVAH	RKVAH (LAG)	RKVAH (LEAD)	Consumer No. KW (MD)	850710398285	KVA (MD)
Current							
Previous 08/11/2021	23728.00	0.00	0.00	0.00	0.00		0.00
Difference 02/10/2021	23309.00	0.00	0.00	0.00	0.00		0.00
Multiplying Factor	419.00	0.00	0.00	0.00			
Consumption	1.00	1.00	1.00	1.00	1.00		1.00
Add if L. T. Metering	419.00	0.00	0.00	0.00	0.00		0.00
Adjustment	0.00	0.00	0.00	0.00	0.00		0.00
Assessed Consumption	-419.00	0.00	0.00	0.00	0.00		0.00
Total Consumption	0.00	0.00	0.00	0.00	0.00		0.00

BILLING DETAILS

Billed Demand (KVA) @ Rs.				Demand Charges	
Assessed P.F.	0	Avg. P.F.	373.00	Wheeling Charges	373.00
Billed P.R	0.0000	L.F.		Energy Charges	1.38 0.00
Consumption Type	0.0000	Rate	Charges Rs.	TOD Tariff EC	0.00
Industrial				FAC@ Ps/U	0.00
Residential	0.00		0.00	Electricity Duty	0.00
Commercial	0.00		0.00	Other Charges	0.00
E.D. on (Rs.)	Rate %	0.00	Amount Rs	0.00	
				Tax on Sale @ Ps/U	0.00
0.00	0.00		0.00	P.F. Penal Charges / P.F.Incentive	0.00
0.00	0.00		0.00	Charges For Excess Demand	0.00
				Debit Bill Adjustment	
				TOTAL CURRENT BILL	0.00
				Current Interest	373.00
				Principal Arrears	09/11/2021 0.00
				Interest Arrears	-19782.79
				Total Bill Amount (Rounded) Rs.	0.00
				Delayed Payment Charges Rs.	-19410.00
				Amount (Rounded) Payable After	0.00
				(Amount Rounded to Nearest Rs. 10/-)	
					04/12/2021 -19410.00

TOD Tariffs	Rate % (Rs/Units)	21.00	Units	Demand	0.00	Charges Rs.
0000 Hrs-0600 Hrs & 2200 Hrs-2400 Hrs						
0600 Hrs-0900 Hrs & 1200 Hrs-1800 Hrs			0	0		0.00
0900 Hrs-1200 Hrs			0	0		0.00
1800 Hrs-2200 Hrs			0	0		0.00
			0	0		0.00
Amount In Words	₹					

SOLAR NET METER CONSUMPTION DETAILS

SOLAR	IMPORT			EXPORT			GENERATION		
	CURRENT READING	PREVIOUS READING	Units	CURRENT READING	PREVIOUS READING	Units	CURRENT READING	PREVIOUS READING	Units
TOTAL	23728.00	23309.00	419.00	26991.00	26029.00	962.00	44225.00	42967.00	1258.00
Offset: 419.00		Previous Banked: 2780.00	Current Banked: 3323.00		Banking Charge Units:		Billed: 0.00		

CONDITIONS

- The total bill amount of the bill may be remitted by a Crossed Demand Draft/Cheque drawn in favor of "Maharashtra State Electricity Distribution Co. Ltd." Whenever Security Deposit is demanded separate Cheque/Bank Draft should be sent.
- The current bill is payable within fifteen days from the date of issue of the bill. Even if there is any discrepancy in the bill or any other clarification needed, consumers are requested to pay the billed amount in full provisionally or under protest subject to review and subsequent adjustment, so that payment of delayed payment charges is avoided.
- This bill is issued Subject to the provision of the "Conditions and Miscellaneous charges for supply of Electrical Energy" of the company.
- Please quote the Consumer Number on the back of the Cheque. The payment of this bill should be made at Company's office only.
- If the cheque is sent by post the same should be posted three clear days in advance of the due date.
- In case of payment made through RTGS/NEFT/Cheque/DD/Pay order, the date of amount credited to MSSEDCL's account will be treated as receipt date.

Collection Hours : 10-30 to 16-00 Hours (Except on Bank Holidays, Sundays & Saturdays)

AHMEDNAGAR CIRCLE - 570 SHRIRAMPUR DIVISION - 576 SHRIRAMPUR		BU 4839	Bill No: 000001382341201
Consumer Name: B50710408533 SOLAR NET METER (10.00 KW)		BILL DATE: 12/11/2021	₹ 0.00
Address: SHRI PRI.C.D.J.COLLEGE COLLEGE AREA SHRIRAMPUR, DIST. A.NAGAR		IF PAID UPTO: 02/12/2021	₹ 0.00
Village: Pin Code:		IF PAID AFTER: 18/11/2021	₹ 0.00
E-mail: SHRIRAMPUR 413709		Last Receipt No./Date: 02/12/2021	0.00
Activity: Large Scale / Private Sector		Last Month Payment: / 29-09-2020	
Mobile No.: Meter No.: Seasonal:		Scale / Sector: 0.00	
Sanctioned Load (KW): Connected Load (KW): Urban/Rural Flag: N/ Express Feeder Flag: N			
Contract Demand (KVA): 9.00 KW 50% of Con. Demand (KVA): KW		Feeder Voltage (KV): R N	
Tariff: 0.00		0.00	

Dale of Connection: 73 LT-VII B-1 DTC: 8390239 GIS Dtr/Pole: PC-MR-ROUTE-SEQ 00-10-5019-7205	Category: Public Services Other	GSTIN:	<p>Maintain Harmonic distortion within limit as prescribed by IEEE STANDARD 519-1992 to avoid penalty</p> <p>Avail Power factor incentive up to 3.5% maintaining power factor above 95% to 100%</p> <p>Avail load factor Incentive up to 15% by maintaining constant load profile.</p> <p>Avail 1% prompt payment discount by paying bills within prompt payment date.</p>
Supply at: 01/02/2011	Elec. Duty:	PAN:	
Prev. Highest (Mth): LT	Prev. Highest Bill Demand (KVA):	M30_EXCEPTIONAL	
Security Deposit Held Rs.: 10440.00	Addl. S.D. Demanded Rs.: 0.00		
Bank Guarantee Rs.:	S D Arrears Rs.: 0.00		

BILLING HISTORY			
Bill Month	Units	Bill Demand(KVA)	Bill Amount
Sep-2021	58	0	887.06
Aug-2021	19	0	594.07
Jul-2021	28	0	661.68
Jun-2021	26	0	873.82
May-	23	0	624.12
Apr-2021	106	0	1247.67
Mar-2021	0	0	364.53
Feb-2021	0	0	362.00
Jan-2021	0	0	362.00
Dec-2020	0	0	362.00
Nov-2020	0	0	362.00
Oct-2020	0	0	362.00

CUSTOMER CARE Toll Free No.
1912,1800-233-3435,
1800 102-3435

Rule & Procedure for Consumer Grievances Redressal is available at www.mahadiscom.in>consumer portal>CGRF

Instead of Printed bill, register for E-bill and avail Rs. 10 per bill as a "Go-green" discount.

For registration visit at www.mahadiscom.in->consumer portal->Quick access->Go-green request

For making Energy Bill payment through RTGS/NEFT mode, use following details.
Beneficiary Name: MSEDCL
Beneficiary account no.: MSEDCL01850710408533
IFS Code: SBIN0008965, Name of Bank : STATE BANK OF INDIA, Name of Branch: IFB
Bill Amount: <As per bill>
Disclaimer: Please use above bank details only for payment against consumer number mentioned in beneficiary account number.
In case of energy bill paid through NEFT / RTGS, date of amount credited in MSEDCL bank account will be considered as bill payment date.

Principal
C.D.Jain College of Commerce
Shrirampur, Dist. Ahmednagar

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STAY HOME, PAY ONLINE & STAY SAFE
FOR MORE DETAILS VISIT WWW.MAHADISCOM.IN
OR
CALL MSEDCL TOLL FREE 1912 / 19120 / 1800-102-3435 / 1800-233-3435

MSEDCL ONLINE PAYMENT FACILITY

- Pay Online to Save your Time and Money
- Safe and Secure
- Pay Online from MSEDCL Official Website, Mahaviraran Mobile App.
- Online payment facility available through Net-Banking, Credit Card, Debit Card, Cash Cards, UPI etc.
- 0.25% discount (up to Rs.500) in next month Bill.
- RTGS Payment facility for HT and LT consumers above 20kW load* For RTGS payment, virtual account number of Consumer and bank details are printed on Consumer bill.

Important Message

- Consumers can pay online using Net banking, Credit/Debit cards at <https://wss.mahadiscom.in/wss/wss> after registration.
- Submit / update your E-mail id and mobile number to Circle Office for receiving prompt alerts through SMS.
- Submit / update your PAN & GSTIN to circle office with copies of PAN & GSTIN for verification.
- Special desk is operational for HT Consumers, please contact: htconsumer@mahadiscom.in for any clarification / query or grievance.
- This Electricity Bill should not be use for the address proof and as a proof of property ownership.
- For any payment to MSEDCL, ENSURE & INSIST for computerized receipt with unique system generated receipt number. Do not accept hand written receipt. Pay online to avoid any inconvenience.

Printed by Padmashree Forms

Principal
C.D. जैन कॉलेज ऑफ कॉमर्स,
श्रीरामपूर, अहमदनगर

CURRENT CONSUMPTION DETAILS

Reading Date	KWH	KVAH	RKVAH (LAG)	RKVAH (LEAD)	Consumer No. : 850716468535	KVA (MG)	KVA (MG)
Current							
Previous 08/11/2021	9963.00	0.00	0.00	0.00	0.00	0.00	0.00
Difference 02/10/2021	9849.00	0.00	0.00	0.00	0.00	0.00	0.00
Multiplying Factor	114.00	0.00	0.00	0.00			
Consumption	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Add if L. T. Metering	114.00	0.00	0.00	0.00	0.00	0.00	0.00
Adjustment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assessed Consumption	-0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Consumption	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BILLING DETAILS

Billed Demand (KVA) @ Rs.		Avg. P.F.		Demand Charges	
Assessed P.F.	0	Avg. P.F.	373.00	Wheeling Charges	373.00
Billed P.R.	0.0000	L.F.		Energy Charges 1.38	157.32
Consumption Type	0.0000	Rate	Charges Rs.	TOD Tariff EC	533.52
Industrial				FAC@ Ps/U	0.00
Residential	0.00		0.00	Electricity Duty	0.00
Commercial	0.00		0.00	Other Charges	223.41
E.D. on (Rs.)	Rate 14.00	Amount Rs 533.52		Tax on Sale @ Ps/U	0.00
				P.F. Penal Charges / P.F. Incentive	20.52
0.00	0.00		0.00	Charges For Excess Demand	0.00
0.00	0.00		0.00		0.00
1063.84	Rate 21.00	Units	Demand 223.41	Charges Rs.	
0000 Hrs-0600 Hrs & 2200 Hrs-2400 Hrs		0	0	0.00	
0600 Hrs-0900 Hrs & 1200 Hrs-1800 Hrs		0	0	0.00	
0900 Hrs-1200 Hrs		0	0	0.00	
1800 Hrs-2200 Hrs		0	0	0.00	
Amount in Words	₹				

Demand Charges	
Wheeling Charges	373.00
Energy Charges 1.38	157.32
TOD Tariff EC	533.52
FAC@ Ps/U	0.00
Electricity Duty	0.00
Other Charges	223.41
Tax on Sale @ Ps/U	0.00
P.F. Penal Charges / P.F. Incentive	20.52
Charges For Excess Demand	0.00
	0.00
Debit Bill Adjustment	
TOTAL CURRENT BILL	0.00
Current Interest	1307.77
Principal Arrears 07/11/2021	0.00
Interest Arrears	-16975.52
Total Bill Amount (Rounded) Rs.	0.00
Delayed Payment Charges Rs.	-15670.00
Amount (Rounded) Payable After <small>(Amount Rounded to Nearest Rs. 10/-)</small>	0.00
	02/12/2021 -15670.00

SOLAR NET METER CONSUMPTION DETAILS

SOLAR	IMPORT			EXPORT			GENERATION		
	CURRENT READING	PREVIOUS READING	Units	CURRENT READING	PREVIOUS READING	Units	CURRENT READING	PREVIOUS READING	Units
TOTAL	9963.00	9849.00	114.00	11313.00	11313.00	0.00	13726.00	13723.00	3.00
Offset: 0.00		Previous Banked: 0.00	Current Banked: 0.00		Banking Charge Units:		Billed: 114.00		

CONDITIONS

- The total bill amount of the bill may be remitted by a Crossed Demand Draft/Cheque drawn in favor of "Maharashtra State Electricity Distribution Co. Ltd." Whenever Security Deposit is demanded separate Cheque/Bank Draft should be sent.
- The current bill is payable within fifteen days from the date of issue of the bill. Even if there is any discrepancy in the bill or any other clarification needed, consumers are requested to pay the billed amount in full provisionally or under protest subject to review and subsequent adjustment, so that payment of delayed payment charges is avoided.
- This bill is issued subject to the provision of the "Conditions and Miscellaneous charges for supply of Electrical Energy" of the company.
- Please quote the Consumer Number on the back of the Cheque. The payment of this bill should be made at Company's office only.
- If the cheque is sent by post the same should be posted three clear days in advance of the due date.
- In case of payment made through RTGS/NEFT/Cheque/DD/Pay order, the date of amount credited to MSSEDCL's account will be treated as receipt date.

0000 Hrs-0600 Hrs					
& 2200 Hrs-2400 Hrs					
0600 Hrs-0900 Hrs		0	0	0.00	
& 1200 Hrs-1800 Hrs					
0900 Hrs-1200 Hrs		0	0	0.00	
1800 Hrs-2200 Hrs		0	0	0.00	
Amount In Words		0	0	0.00	

Debit Bill Adjustment	
TOTAL CURRENT BILL	0.00
Current Interest	1307.77
Principal Arrears	0.00
Interest Arrears	-16975.52
Total Bill Amount (Rounded) Rs.	0.00
Delayed Payment Charges Rs.	-15670.00
Amount (Rounded) Payable After	0.00
<small>(Amount Rounded to Nearest Rs. 10/-)</small>	

02/12/2021 -15670.00

SOLAR NET METER CONSUMPTION DETAILS

SOLAR	IMPORT			EXPORT			GENERATION		
	CURRENT READING	PREVIOUS READING	Units	CURRENT READING	PREVIOUS READING	Units	CURRENT READING	PREVIOUS READING	Units
TOTAL	9963.00	9849.00	114.00	11313.00	11313.00	0.00	13726.00	13723.00	3.00
Offset: 0.00		Previous Banked: 0.00	Current Banked: 0.00		Banking Charge Units:			Billed: 114.00	

CONDITIONS

- The total bill amount of the bill may be remitted by a Crossed Demand Draft/Cheque drawn in favor of "Maharashtra State Electricity Distribution Co. Ltd." Whenever Security Deposit is demanded separate Cheque/Bank Draft should be sent.
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- This bill is issued Subject to the provision of the "Conditions and Miscellaneous charges for supply of Electrical Energy" of the company.
- Please quote the Consumer Number on the back of the Cheque. The payment of this bill should be made at Company's office only.
- If the cheque is sent by post the same should be posted three clear days in advance of the due date.
- In case of payment made through RTGS/NEFT/Cheque/DD/Pay order, the date of amount credited to MSEDCCL's account will be treated as receipt date.

0900 Hrs-1200 Hrs	0	0.00
1800 Hrs-2200 Hrs	0	0.00
Amount In Words	₹	0.00

Principal Arrears	09/11/2021	0.00
Interest Arrears		-19782.79
Total Bill Amount (Rounded) Rs.		0.00
Delayed Payment Charges Rs.		-19410.00
Amount (Rounded) Payable After		0.00
<small>(Amount Rounded to Nearest Rs 10/-)</small>		

04/12/2021 -19410.00

SOLAR NET METER CONSUMPTION DETAILS

SOLAR	IMPORT		Units	EXPORT		GENERATION		
	CURRENT READING	PREVIOUS READING		PREVIOUS READING	Units	CURRENT READING	PREVIOUS READING	Units
TOTAL	23728.00	23309.00	419.00	26029.00	962.00	44225.00	42967.00	1258.00
Offset: 419.00	Previous Banked: 2780.00	Current Banked: 3323.00		Banking Charge Units:		Billed:		0.00

CONDITIONS

- The total bill amount of the bill may be remitted by a Crossed Demand Draft/Cheque drawn in favor of "Maharashtra State Electricity Distribution Co. Ltd." Whenever Security Deposit is demanded separate Cheque/Bank Draft should be sent.
- The current bill is payable within fifteen days from the date of issue of the bill. Even if there is any discrepancy in the bill or any other clarification needed, consumers are requested to pay the billed amount in full provisionally or under protest subject to review and subsequent adjustment, so that payment of delayed payment charges is avoided.
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- In case of payment made through RTGS/NEFT/Cheque/DD/Pay order, the date of amount credited to MSEDCCL's account will be treated as receipt date.

Collection Hours : 10-30 to 16-00 Hours (Except on Bank Holidays, Sundays & Saturdays)

ASSURE QUALITY

MANAGEMENT CERTIFICATION SERVICES PVT. LTD.

COMPLIANCE VERIFICATION

This is to certify that



Rayat Shikshan Sanstha's
CHANDRAROOP DAKLE JAIN COLLEGE OF COMMERCE
Ward No. 2, Rakat Shaikshnik Sankul
Shrirampur-413709, Maharashtra
India

Has been assessed and found to be in accordance with the requirements of detailed below

Green Audit

Reference A064latest revision

Certificate Number: HI0BAA/0BAG:0219

Originally Registered: 09 Feb.2019 Latest Issue: 09 Feb.2019 Originally Expiry Date: 08 Feb.2022

Validity of this certificate is subject to annual surveillance audit to be done successfully on or before of 03 Feb.2020 & 03 Feb.2021 respectively. In case if surveillance audit is not allowed to be conducted; this certificate shall be suspended/withdrawn.



Jayinder Chahal
For AQMCS PVT LTD

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ASSURE QUALITY

MANAGEMENT CERTIFICATION SERVICES PVT. LTD.

Certificate of Registration

QUALITY MANAGEMENT SYSTEM

This is to certify that



**Rayat Shikshan Sanstha's
CHANDRAROOP DAKLE JAIN COLLEGE OF COMMERCE**

Ward No. 2, Rakat Shaikshnik Sankul
Shrirampur-413709, Maharashtra
India

Has been assessed and found to be in accordance with the requirements of standard detailed below

ISO 9001:2015

For the following scope

Providing Educational Services for the Student of Commerce in
Graduation, Post-Graduation, Doctoral and Diploma Courses

Certificate Number: HI0BA0/0BAF:0219

Originally Registered: 09 Feb.2019 Latest Issue: 09 Feb.2019 Originally Expiry Date: 08 Feb.2022

Validity of this certificate is subject to annual surveillance audit to be done successfully on or before of
03 Feb.2020 & 03 Feb.2021 respectively. In case if surveillance audit is not allowed to be conducted;
this certificate shall be suspended/withdrawn.



Jasinderchand
For AQMCS PVT LTD

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Kolhar Bk, Tal. Rahata, Dist. A.Nagar. M : 9552543232, 9552548425
E mail : laxman.dighe@gmail.com

07/04/2021

TO,

The Hon. Principal.

C.D.Jain College of Commerce, Shirampur.

SUB- Electrical safety Audit for C.D.Jain college campus.

Ref- Audit done on date 16/4/2021.

Respected Sir,

With reference to the above cited subject, we are very thankful to Hon. Management of C.D.JAIN College, Shirampur. For selection of us for Electrical audit of your campus.

We visited to campus on Dt-16/04/2021 for the purpose of audit; during the audit process we visit all our buildings, hostels, library, labs, gymnasium hall, and all campus.

Following points are observed during the electrical safety Audit; please complete the repairing work where it's necessary and priority basis.

1) At the entrance of the college, MSEDCL Transformer situated at the right hand side behind the watchman cabin and L.T.Line originated from transformer and passes through the college campus along with the road and somewhere crossing the roads .its observed that maintenance of the L.T.Line is properly carried out. Please focus on following points to maintain LT Line in proper way

1a) Tree cutting to be done to avoid snapping of conductor during the stormy conditions.

1b) LT Line lacing guarding not done for road crossings, ask MSEDCL to provide the same.

1c) At entrance of college one LT Line stay wire is obstructing the Gate. Please shift the stay by providing alternative to wired type stay.

1d) as conductor of the line is very old and current carrying capacity of conductor is low ask MSEDCL to replace the conductor by higher capacity and higher strength.

2) All class rooms checked and observed several common points as safety point of view. Please focus on following points for safety of students and the wealth.

2a) Switches and sockets and switch board found in broken (damaged) condition, and not good for electrical operation of switching ON/OFF the fans and tube lights in the class room. please replace the broken switches ,sockets, holders, ceiling rose etc.to avoid any electrical accident.

2b) PVC Casing of the wires (patti)is also found not in position,also wires are hanging on walls or on nails in the class room,many of them have a open joints, which are live,please repair the same.

2c) Maximum Fans installed in the classroom found there blades ,twisted,removed.please remove such fans to avoid electrical billing expenses as well as any mishap in the class room.

2d) Its suggested that provide stickers near all switch boards to aware the student or any person who is doing all these thing ,that do not damage switches ,board, fans, tubes,wires etc. because all they are electrically live parts and may cause heavy flash over due that, may lead in electrical shock.

2d) Its observed in the administrative office ph to earth votage is 227 volts. But neutral to earth voltage observed 65 volts its not safe for electrical equipments as well as the users, kindly check the earthing of the installation ,neutral of the connection from the pole. Or do new fresh earthing for the office premises, Also ask our maintainance person to check the all neutral and earth connections.its strongly recommend that provide separate earthing for all computer labs,office,servers etc. make sure that inverter neutral separate from inverter.

2e) UPS room –UPS room is nothing but a shed, it has no proper ventilation, exhaust fans, provided due to that room temperature of UPS room found very high at the time of inspection. Please provide proper ventilation ,exhaust fans to the room ,also kept room clean, kept battaries and UPS dust free. its suggest that use cement slab, or asbestos sheets as roof top of the UPS room instead of tin sheets.repair the wiring of the room and panels of DGs,UPS,and MSEDCL. UPS installed in A building is not clean. repaire the installation wiring.

3) After visiting to the campus following points observed for old connection, for safety point of view please do the needful as mentioned below:

3a) Install proper capacity 2 Pole / 4 pole MCB to All our single phase /three phase connections of the campus. also use RCCB s 300 mA. for main to avoid fault leakage current

3b) Provide proper Size of earth wire from earth electrode to installation.(flexible wire observed for earthling)

5) Please ask MSEDCL persons to make proper clearance between trees and the line in our college campus, especially in the staff quarter campus, along the roads, along the grounds.

6) water the earth pits of DG sets. regularly, check for any loose connection or carbon to the neutral connection of DG.

Kindly please complete the maintenance work, for smooth operation of the electrical equipments of the institute.

Thanking you

A handwritten signature in blue ink that reads "L.S. Dighe". The signature is written in a cursive style with a horizontal line underneath the name.

Yours faithfully

L.S.Dighe.