



Shri Shivaji Education Society, Amravati's  
**Dhanwate National College**  
Congress Nagar, Nagpur



**Established in 1935**

**College with Potential for Excellence status by UGC, New Delhi**  
**PM-USHA 4.00 Grant for College Strengthening**  
**Re-Accredited 'B+' Grade, CGPA 2.53 by NAAC, Bangalore**  
**Centre of Higher Learning and Research**  
**Institutional Member of APQN, Shanghai**



**4<sup>th</sup> Cycle**

**Assessment & Accreditation by NAAC**

## AQAR 2023-2024

### CRITERIA VII : INSTITUTIONAL VALUES AND BEST PRACTICES



#### 7.1 - Institutional Values and Social Responsibilities

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution



**Dr. Panjabrao alias  
Bhausaheb Deshmukh**  
Founder President



Estd. 1935

Shri Shivaji Education Society, Amravati's (Regd. No. F. 89)  
**DHANWATE NATIONAL COLLEGE**  
Congress Nagar, Nagpur.

'College with Potential for Excellence' (C.P.E.) By U.G.C. Delhi  
NAAC ACCREDITED 'B+' GRADE, CGPA 2.53  
RECOGNISED CENTER FOR HIGHER LEARNING AND RESEARCH  
INSTITUTIONAL MEMBER OF ASIA PACIFIC QUALITY NETWORK, SHANGHAI

**Hon. Shri Harshwardhan P. Deshmukh**  
President

**Dr. Omraj S. Deshmukh**  
M.Sc., Ph.D.  
Principal

No./DNC /\_ **248/2023-2024**

Date : **26/12/2023**

### **Self Declaration**

This is to certify that, the information, report true copies of the supporting documents, numerical data and weblinks furnished in this file are verified by IQAC and the head of the institution and found correct.

Hence this certificate is issued.

**Dr. K. D. Meghe**  
IQAC Coordinator



**Dr. O. S. Deshmukh**  
Principal

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**7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution**

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**2023-  
2024**

**Report on  
Quality Audits on  
Environment and Energy**

**Dhanwate National College**  
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Report on  
**Quality Audits on Environment and  
Energy**  
2023-2024

Edited By

**Dr. Kulbhushan D. Meghe, NAAC Coordinator**  
**Mr. S. S. Gaharwar, NAAC Criteria Incharge VII**

**Publisher:**

**INTERNAL QUALITY ASSURANCE CELL (IQAC)**

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- Ms.Hema Puri Superintendent
- Dr. D. C. Wankhede Member
- Dr.Mukul Burghate Member
- Dr. S. S. Dadhe Member
- Dr.Kavita Patil Member

## (External-Invitee)

- Dr. A. M. Deshmukh, RTM Nagpur University, Nagpur
- Dr. Mahendra Dhore, Principal, Shivaji Science College, Nagpur
- Dr. Ajay Pethe, Dean, DMIHER, Wardha

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## **1. INTRODUCTION:**

Green audit is a critical process for institutions to assess and improve their environmental practices and contribute towards sustainable development. With the increasing environmental challenges, it has become necessary for educational institutions to adopt the system of Green Campus and reduce carbon emission. The mandatory requirement of Green Audit Report by NAAC highlights the importance of this process. It can help institutions to identify areas where they can reduce their energy and resource consumption, implement changes, and make savings. Green audit can also create awareness among staff and students about the impact of their actions on the environment and promote environmental values and ethics. Overall, the adoption of Green Campus and the implementation of carbon reduction measures can help institutions to contribute towards the reduction of global warming and work towards a sustainable future.

## **2. OBJECTIVES:**

The objectives of carrying out a Green Audit are to:

1. Identify and evaluate the environmental impacts of the institution's operations, processes, and activities, including energy use, water consumption, waste generation, and emissions.
2. Assess the institution's compliance with environmental regulations, policies, and standards, and identify areas where improvements can be made.
3. Quantify the institution's carbon footprint and identify opportunities to reduce greenhouse gas emissions.
4. Develop a framework for implementing sustainable practices and initiatives to reduce the institution's environmental impact, including strategies for reducing energy and water consumption, minimizing waste generation, and promoting sustainable transportation.
5. Prioritize and set targets for implementing sustainable practices and initiatives, and develop an action plan for achieving these targets.
6. Educate and raise awareness among staff, students, and other stakeholders about the importance of environmental sustainability and the role that the institution can play in addressing environmental challenges.

By carrying out a Green Audit, the institution can demonstrate its commitment to environmental sustainability, improve its environmental performance, and contribute to the global effort to address climate change and other environmental issues.

### **3. METHODOLOGY:**

The purpose of conducting a green audit of institute is to evaluate the current environmental practices on campus and ensure that they align with the green policy of the country. The methodology involves collecting data, conducting a physical inspection of the campus, observing and reviewing documentation related to environmental sustainability, and analyzing the data collected to identify areas where improvements can be made. The ultimate goal is to provide recommendations for improving the environmental sustainability practices on campus and contribute to a more sustainable future.

### **4. ABOUT THE COLLEGE:**

Dhanwate National College (DNC) was founded by a faction of socially oriented citizens who recognised the need for huge prospects for University Education. It was started at Wardha in 1935 as Wasudeo Arts College and later shifted to Nagpur in 1942 renamed as National College. Shri Shivaji Education Society, Amravati, took over the management of this college in 1949. In the year 1951, Late Shrimant Dadasaheb Dhanwate donated generously to the society after which it was once again renamed as Dhanwate National College.

The present Principal is Dr. J. D. Wadate. Dhanwate National College employs Managerial Practices like working through Governing Body, College Council and some special Committees which ultimately results into a democratic Decision-Making Mechanism. Various committees functional in the institute include; Admission Committee, Scholarship Committee, Library Committee, Discipline Committee, Jayanti-Punyatithi Committee, Examination Committee, Women-Cell, Magazine Committee, NCC Committee, Cultural Committee, NSS Committee, Felicitation Committee, Publicity Committee, Sports Council, Training & Placement Committee and Dr. Panjabrao Deshmukh Krida Mahotsava Committee. Few of the programs which are regularly held in the institute include; Birth & Death Anniversaries of National Personalities, Dr. Panjabrao Deshmukh Sports Festival, Dr. Panjabrao Deshmukh Jayanti Mahotsava and Dr. Babasaheb Ambedkar Maha-Parinirvana Din.

The institute also has facilities like; Wi-Fi Internet, Saral Sanskrit Speaking Course, Academic Gallery, NCC, NSS, Language Lab for English, Personality Development Programs, Communication Skills Development Pedagogy and NET / SET Guidance

Center. The institute has an independent Research Center which focuses on research based learning activities through center for higher learning and research. Over the years, the interdisciplinary research activities and students' participation in research has helped in fostering the research aptitude in them. The institute is also encourages Major / Minor Research Projects (UGC Sponsored) to be undertaken by the faculty therein.

The Faculty and Administrative Staff benefits from the strong ICT Support it finds in the Computers, Laptops, Printers, LCD / Overhead Projectors, Scanners, Fax Machines, Xerox Machine and EPABX in place. The faculty has also been provided with welfare schemes like; Credit Co-operative Society, LIC & Medical, Representation on Government Bodies, Felicitation, Recognition, Grievance Cell and university bodies.

The Admission Strategy of institute gives ample amount of scope to all the students, transparency being one of the major aspects of the institute. The counseling cell at the institute helps the students in selecting suitable courses. Along-with weightage to merit, reservation quota and special quota; the institute for easy admission procedure. Students are also provided financial assistance and different kinds of scholarships, in fact, as many as fifteen college scholarships are awarded for meritorious students every year.

Conference, Seminars and Workshops are regular activities aimed at bringing together the experts on one platform and share their ideas. The exposure students get during these activities helps them in expanding their horizons. The institute has three independent buildings for the Granted, Management and other Self-Financed courses. Independent Libraries, Seminar Halls, Play Grounds and Computer Labs further provide the students extended opportunities to use these facilities effectively.

The Sports Department has been reaching new heights as the time goes by. The department has bestowed State & National Level Honours upon the institute and at the same time produced players, coaches & administrators of State & National repute. The department is actively engaged in organizing sports events like; International Marathon; University, State & National level Seminars / Conferences; Workshops on Yoga, Meditation etc; Cross-Country; Intercollegiate / University Tournaments; DSO Tournaments; Coaching Camps; Medical Examinations; Physical Efficiency Test of UG Students to name some.

The cultural programs regularly held in the institute include competitions in the areas of General Knowledge, Essay, Debates, Quiz, Sketching, Poster, Dance, Singing and Rangoli.

Further, center for Yashwantrao Chavan Maharashtra Open University (YCMOU) and Indira Gandhi National Open University (IGNOU) have been started via Open and Distance Learning (ODL) mode for providing access to 'Higher Education' to those who cannot pursue regular education.

## **5. VISION STATEMENT**

“ To provide educational opportunities to the underprivileged sections of society, enabling them to become globally competent and responsible citizens of India. We are committed to our vision of 'Education for Masses' for which, we aim to empower individuals, creating a brighter and more inclusive future for everyone.”

## **6. MISSION STATEMENT**

“ To create a society where marginalized groups have an equal and equitable educational opportunity. We aim to inculcate civic responsibilities in students, by our commitment to education for all. We try to enable students to be globally competent through the implementation of novel teaching methods, as well as promoting an environment conducive to learning.”

## **7. GREEN AUDITING AT THE INSTITUTE:**

A Green Audit, also known as an environmental audit or sustainability audit, is a process that assesses an institution's environmental performance and identifies opportunities for improvement. In the case of educational institutions, a Green Audit can be conducted to assess the environmental impact of the institution's operations, such as energy use, water consumption, waste generation, and transportation.

The purpose of a Green Audit at institute is to identify areas where the institution can reduce its environmental pollution impact, promote sustainable practices, and achieve cost savings. The audit process typically involves gathering data on energy and resource usage, waste generation, and emissions, as well as conducting site inspections to identify areas for improvement.

Once the data has been collected, the audit team analyzes the information and identifies opportunities for improvement. The team may also benchmark the institution's performance against industry standards and best practices to determine areas for

improvement.

The audit team then develops a report that outlines the findings of the audit and provides recommendations for improvement. The report may include short-term and long-term recommendations, such as improving energy efficiency, reducing water consumption, promoting sustainable transportation methods, and implementing waste reduction strategies.

Finally, the institution has used the recommendations to develop a sustainability plan that outlines specific actions to improve environmental performance. The plan includes goals, timelines, and performance metrics to track progress towards sustainability goals.

## **8. LAND USE ANALYSIS AT THE INSTITUTE:**

### **GENERAL OVERVIEW OF THE CONCEPT OF LANDUSE**

Land use refers to man's activities and the various uses which are carried on and derived from land. Viewing the earth from space, it is now very crucial in man's activities on natural resource. In situations of rapid changes in land use, observations of the Earth from space give the information of human activities and utilization of the landscape.

Remote sensing and GIS techniques are now providing new tools for advanced land use mapping and planning. The collection of remotely sensed data facilitates the synoptic analysis of earth system, functions, patterning, and change in the local, regional as well as at global scales over time. Satellite imagery particularly is a valuable tool for generating land use map.

## **9. METHODOLOGY ADOPTED FOR LAND USE MAPPING**

Three types of data that are GPS points, field survey data and Google earth data for Geo referencing have been used in this study. Land use map of the study area have been prepared using the above three types of data with the help of Arc GIS Pro software.

## **10. DATA PROCESSING AND ANALYSIS**

Land use map preparation is executed through the following steps:

Acquisition of data (Location: 21°07'45" N 79°04'56" E), Geo-coding and Geo referencing of satellite imageries by extracting the ground control points. Supervised classification was carried out with the aid of ground data collected during field survey.



**the institute, Nagpur has some common parameters which are as below:**

**1. Energy consumption:** This parameter evaluates the college's energy usage patterns, including electricity and cooling systems. It may include an analysis of energy-saving measures, renewable energy utilization, and overall energy efficiency.

**a) Solar Capacity facility is installed at the college premises with the following details:**

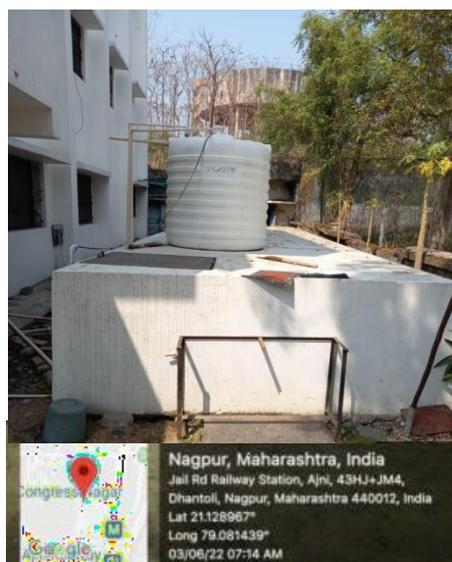
- Solar plant with 40 KW is operative to utilize natural energy sources and the generated electric energy is utilized in the college campus, and also monitored by the staff of college.
- Solar Plant with 40.96 KW is installed to save electricity, and tap natural energy source.



**b) LED Bulbs**

- The use of electric power by tube-lights, CFL bulbs are more expensive and hence LED Bulbs are used in the institutional campus to minimise the expenses towards electricity.
- The use of LED bulbs is green initiative where in the use of LED bulbs is 19.2 KW (60%). The percentage of lighting through other sources is 12.8 KW (40%)

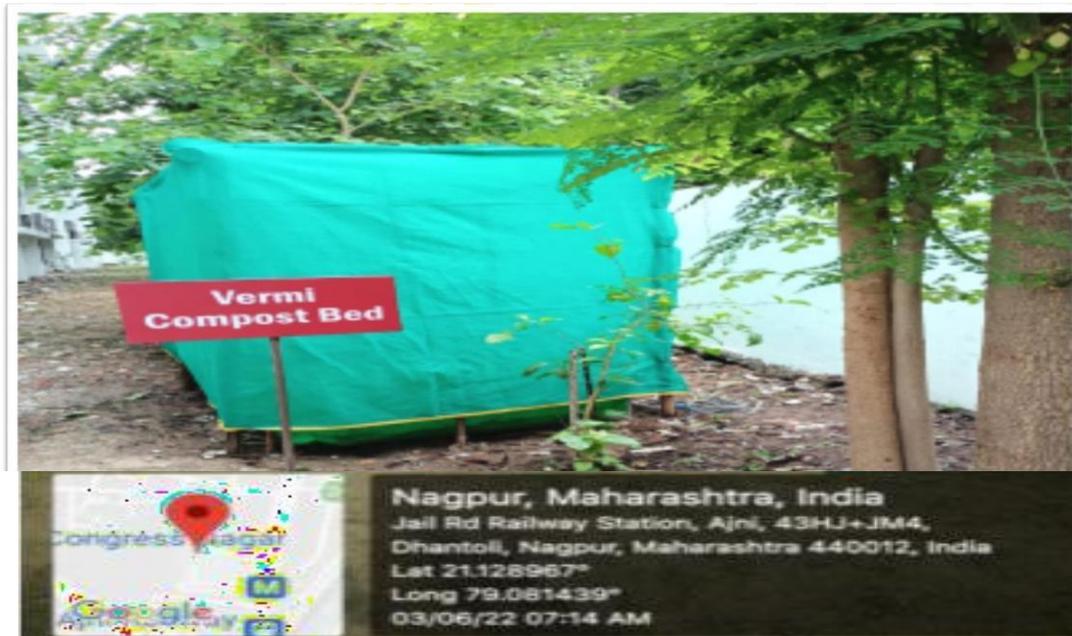
**2. Water usage:** This parameter assesses the college's water consumption, conservation practices, wastewater management, and potential initiatives for water conservation.



**3. Waste management:** This parameter evaluates the college's waste generation, segregation, recycling, and disposal practices. It may include an analysis of recycling rates, waste reduction initiatives, and the implementation of composting or other sustainable waste management strategies.

**a) The following are the solid waste management measures undertaken on regular basis which are as follows**

- The college generally does not generate any hazardous waste in any manner. However, the college strives to generate minimal waste and tries to reduce the use of plastics whenever possible. Some of the better practice adopted by the institution in the area of solid waste it is used for plants as manure.
- Two Pits behind the Women Hostel of college are installed. Waste from hostels and canteen is further utilized. Waste is segregated as biodegradable and non-biodegradable. The college has built a solid waste disposal bin near the wash rooms. This solid waste collected by the Municipal Corporation every alternate day and is then disposed off.
- Using pesticides and other harmful chemicals in the garden is replaced by adopting organic methods of gardening wherever possible. Mild chemicals are used for cleaning and maintaining the campus,



**b) The following are the Liquid waste management measures undertaken on regular basis which are as follows**

- Special care has been taken to keep all the urinals and toilets in the institution clean and monitoring the leakages along with management of exit points.
- Some of the other measures in the area of liquid waste management are: The pipelines from roofs towards rainwater drains are periodically checked for sediments. Mild chemicals are used to keep the drains to keep the environment infection free Canteen food waste is semi-solid in nature and managed especially while washing dishes.

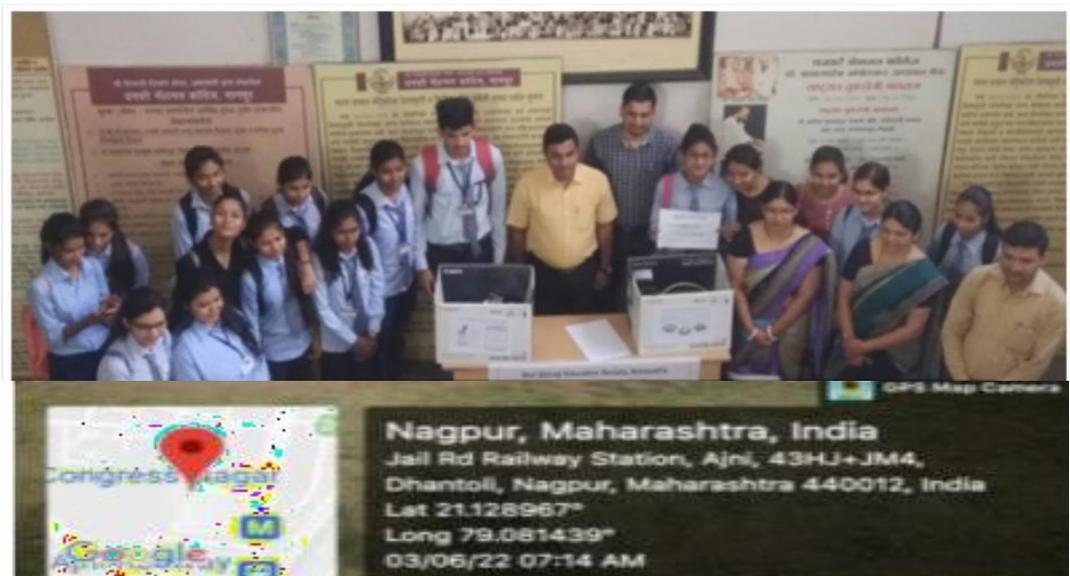
**c) The following are the E-waste management measures undertaken on regular basis which are as follows**

With the fast development of electronic technology other old gadgets become obsolete.

In order to reduce the volume of e-waste generation, we have adopted 'buy back system' in which we return out-dated systems back to the company from where they were purchased.

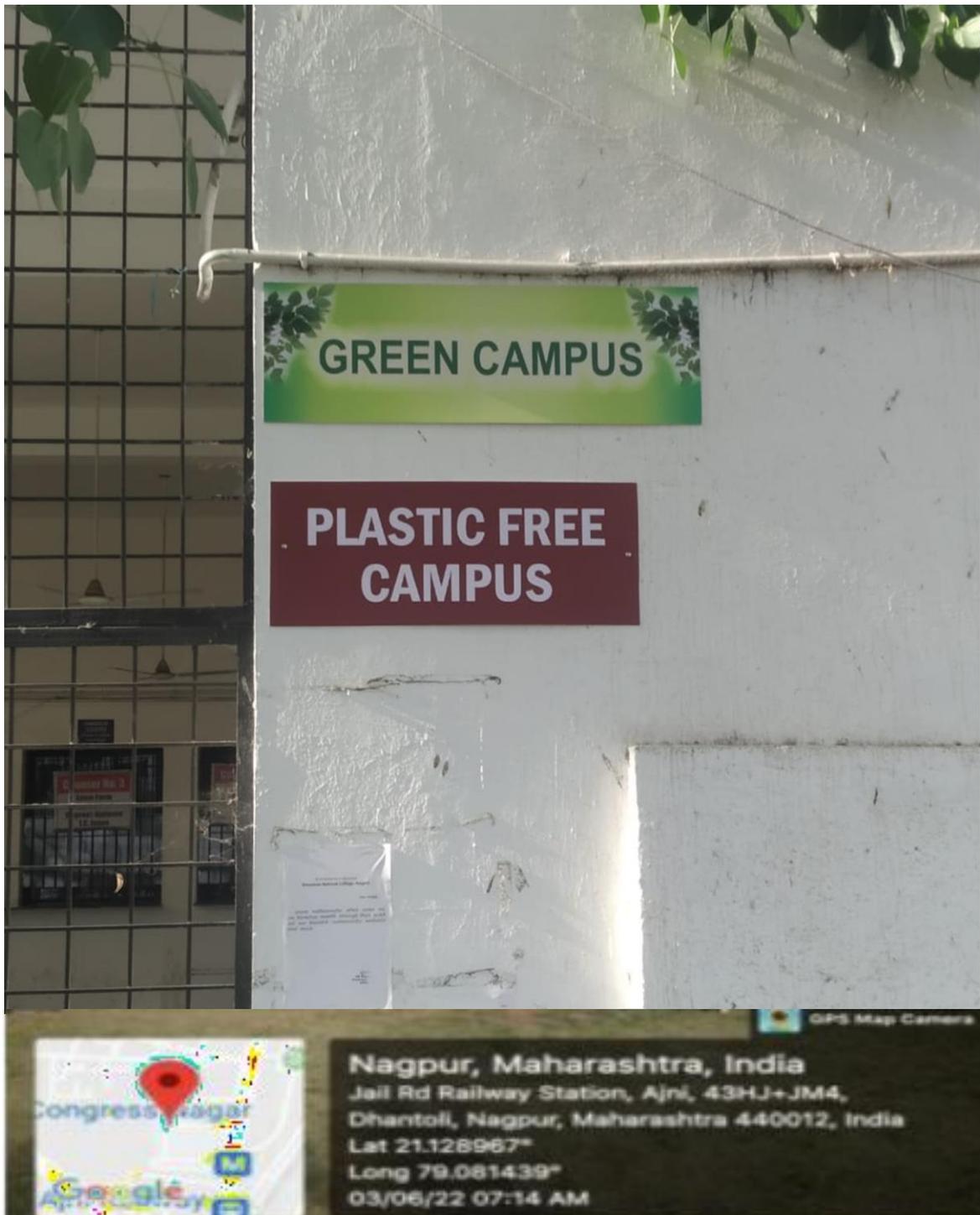
We donate systems of older configuration to our poor students. Some of the systems in good condition are upgraded and repaired. For collecting e-waste; counter is opened. The collected e-waste is handed over to M/s. Suritek, Butibori, Nagpur for further process.

The e-waste generated in our institution is directly given to e- waste management agencies. However, currently, college does not face severe problem of e-waste as the collection is low. The institution is striving to build further awareness in the area of e-waste among our students.



**d) The following are the plastic free campus measures undertaken on regular basis which are as follows**

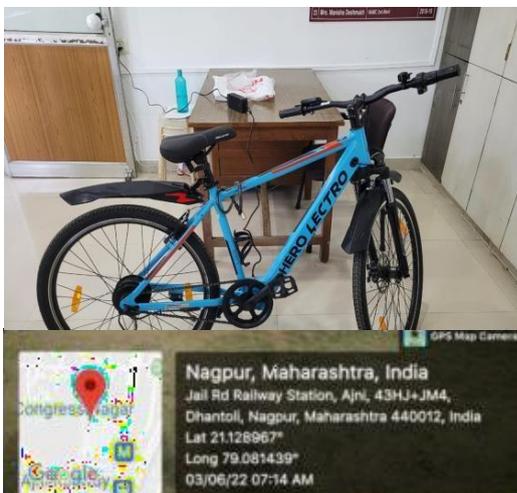
The utilization of plastic bags is strictly avoided in the campus and whole campus is converted in "No Plastic Zone". Staff is also motivated to utilize jute bags or cotton bags.



**4. Transportation:** This parameter evaluates the college's transportation systems and practices, including commuting methods, public transportation accessibility, bike infrastructure, and promotion of sustainable transportation options.

**The following are the transportation measures undertaken to reduce vehicular pollution which are as follows**

- Students and staff use bicycles regularly.
- Public Transport for Institution: Students are coming from various rural places uses such as state transport bases Metro Rail public transport. Our Institution Staff also uses Public Transport because they are from remote places.
- Pedestrian Friendly Roads: Both students and teachers use pedestrian roads periodically.



**5. Indoor environmental quality:** This parameter assesses the indoor air quality, ventilation systems, lighting efficiency, and overall environmental comfort within the college's buildings.

The institution has a system for green-auditing of its facilities which is carried out informally by the NSS and Nature Club. The students and staff have planted several tree saplings through the NSS wing and all these trees are taken care of and maintained by the gardeners of the institution.

Care is taken to ensure that the college environment has low levels of carbon emission so that the campus is healthy for all.

**Paper less Governance:** E-mail for information, alert SMS to students, whats app groups under heading Dhanwate National College to disseminate all information notices on Whats-up.

## **6. Green spaces and biodiversity:**

**The following plantation and biodiversity initiatives are taken which are as follows:**

- Rain-water Harvesting Plantation process is boosted-up by NSS, NCC activities. Beautification and environmental awareness committee is also involved in green initiatives in Dhanwate National College, main campus area is spacious and the large part is lush-green.
- In the main campus there are 59 shrubs, 66 sprawling trees and 13 angiosperms i.e. flower bearing plants.
- At Vasant Nagar campus which is the playground; surrounded by 27 trees with rustling leaves which minimises environmental pollution so as to breath fresh air.
- The institution does not have formal Rainwater Harvesting system, but all the rooftop water flows to ground level through pipes. This leads to keeping the general water level in the campus higher than normal which is reflected in availability of water in the well throughout the year.
- The campus has gone ahead with soak-pits in order to conserve rainwater. The non-teaching staff handling water tanks has been given periodic knowledge about conserving water. The institution also spread awareness on rainwater harvesting through various programs such as; Water Conservation Rallies and Lectures on Water Conservation Themes.



- Green Landscaping with Trees and Plants: The MoU is signed by Center for Animal Rescue Study (CARS) and Dhanwate National College. The objective of MoU is to develop environmental awareness amongst students and inculcate attitude for conservation of nature and animals and the institute organised programme with Green Vigil (NGO). Koustubh Chaterjee, President, Green Vigil addressed on 'Conservation, Plantation of Trees and Nature'.



**7. Sustainable procurement:** This parameter assesses the college's purchasing practices, considering sustainable sourcing, environmentally friendly products, and responsible procurement policies.

**8. Education and awareness:** This parameter evaluates the college's efforts to promote environmental education, awareness campaigns, and initiatives that engage the campus community in sustainable practices.

### 13. CONCLUSION

In conclusion, the green audit conducted at the institute has provided valuable insights into its environmental sustainability practices. The audit highlighted both areas of strength and areas that require improvement. The institute has shown a commendable commitment to sustainability through the implementation of various initiatives, such as waste management programs, energy-efficient systems, and the promotion of eco-friendly practices among students and staff.

The green audit revealed several positive outcomes, including reduced energy consumption, improved waste management, and increased awareness about environmental issues among the institute's stakeholder. These achievements demonstrate the institute's dedication to creating a greener and more sustainable environment.



**Prof. S. S. Gaharwar**  
Criteria Incharge



**Dr. K. Meghe**  
Editor in Chief



**Dr. Omraj .S. Deshmukh**  
Principal

Nagpur

30<sup>th</sup> August, 2023



# Annexure

MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED

OFFICE OF THE EXECUTIVE ENGINEER  
CONGRESS NAGAR DIVISION

NEAR SHIWAJINAGAR, NAGPUR-440012

NAAGPUR-440012

PH: 2440200 2422940

Maha

MID: 9933578011

No. EE/CNDN/Tech

To,  
The Principal,  
Dhanvate National college,  
Congress Nagar Dhanvate,  
Nagpur-440012.

5.5/6. OFFICE OF THE PRINCIPAL Date: 27-10-17  
DHANVATE NATIONAL COLLEGE,  
Congress Nagar  
INWARD NO 724/20/2/18  
DATE 03/11/2017

Subj:- Revised sanction for connecting the solar PV projects/systems for load 32 KW on Rooftop or any Mounting structure in R/o your premises to the Distribution network of MSEDCL.

- Ref :- 1. MERC (Net Metering for Roof-top Solar Photo Voltaic Systems) Regulations, 2015  
2. MSEDCL, Commercial Circular No. 258,  
3. Your Application dated -30.03.2017  
4. Feasibility Report from -Addl Ex. Engr. Regent S-Dn. vide No.556 dt 26.04.2017  
5. Registration Fees Rs. 1000/- paid (on line) vide M.R. No. 3091593261371089 dtd.-18.04.2017

Dear Sir,

In exercise of the powers delegated as per the Commercial Circular No. 258 dated 25/01/2016 the undersigned is pleased to revised sanction your application for connecting the solar PV projects/systems on Rooftop or any mounting structure in your premises to the Distribution network of MSEDCL to your unit at above address. is sanctioned Vide No. EE/CNDN/Tech/LS-Solar Roof Top(CI)/30 dated 27.10.2017.

Consumer No.	Voltage Level	Sanctioned Connected load KW	Proposed AC capacity of Roof-top Solar PV System to be installed	Purpose
419996363253	415 Volt	40 KW	32 KW	Commercial

4) VALIDITY

The validity of this sanction letter is for a period of six months from the date of issue.

You will have submit the work completion report, along with relevant details (such as technical specifications, test reports received from manufacturer / system provider, etc.), with a request to the Distribution Licensee for the testing and commissioning of the Roof-top Solar PV System within the period of validity.

MSEDCL reserves the right to revalidate the sanction subject to the conditions prevailing at the time of revalidation.

5) VOLTAGE LEVEL

The Net metering will be connected at 415 Voltage level.

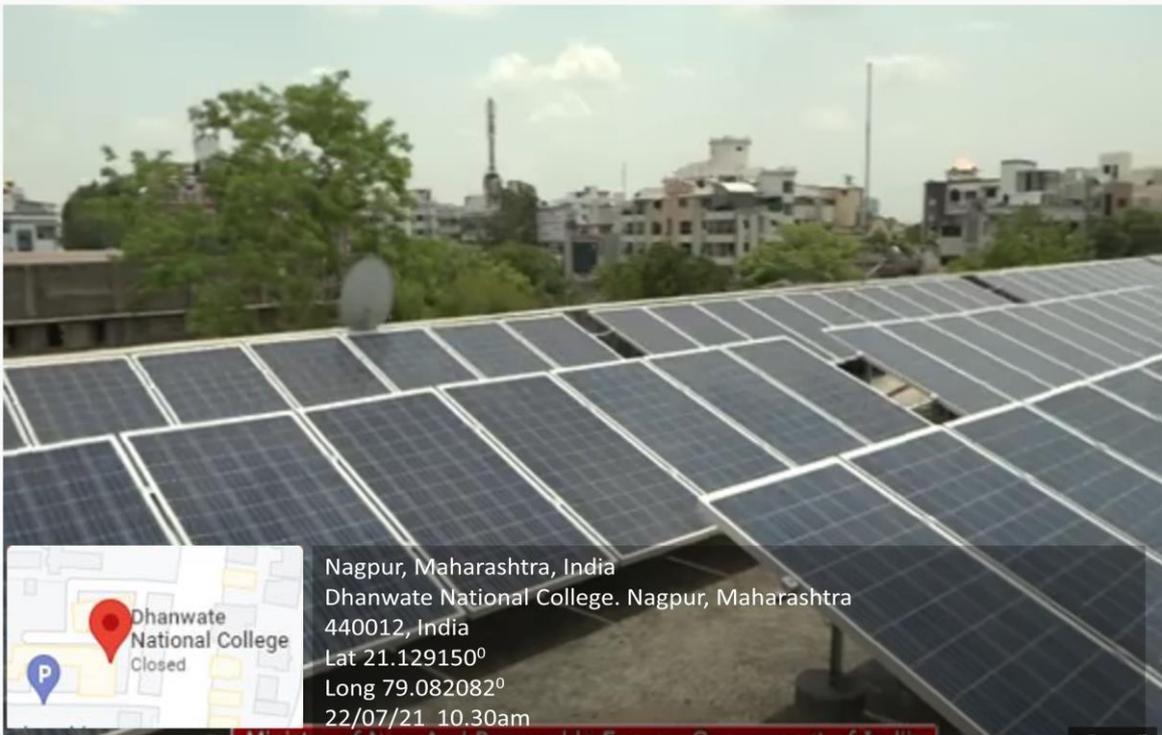
3) DOCUMENTS

ATTESTED  
Principal  
Dhanvate National College  
Nagpur

SEE 130-3511 dt-30/10/17  
Principal  
Dhanvate National College  
Nagpur

*ShriShivaji Education Society, Amravati's*  
**Dhanwate National College, Nagpur**

**Solar Panel**



# Wheeling to the Grid

**MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED**

**OFFICE OF THE EXECUTIVE ENGINEER**  
**CONGRESS NAGAR DIVISION**  
 NEAR RAMAKRISHNA MATH - DHANTOLI  
 NAGPUR - 440012      0712/2530269-2522949

MBL 9960678011

58/6 OFFICE OF THE PRINCIPAL Date:- 27-10-17  
 DHANWATE NATIONAL COLLEGE,  
 NAGPUR  
 INWARD NO. 724/2017/8  
 DATE 03/11/2017

No. EE/CNDN/Tech/ \_\_\_\_\_  
 To,  
 The Principal,  
 Dhanwate National college,  
 Congress Nagar Dhantoli,  
 Nagpur-440012.

**Sub:-** Revised sanction for connecting the solar PV projects/systems for load 32 KW on Rooftop or any Mounting structure in R/o your premises to the Distribution network of MSEDCL.

**Ref:-** 1. MERC (Net Metering for Roof-top Solar Photo Voltaic Systems) Regulations, 2015  
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 5. Registration Fees Rs. 1000/- paid (on line) vide M.R. No. 3091593261371080 dtd.-18.04.2017

Dear Sir,

In exercise of the powers delegated as per the Commercial Circular No. 258 dated 25/01/2016 the undersigned is pleased to revised sanction your application for connecting the solar PV projects/systems on Rooftop or any mounting structure in your premises to the Distribution network of MSEDCL to your unit at above address. is sanctioned Vide No. EE/CNDN/Tech/LS-Solar Roop Top(CL)/ 30 dated 27.10.2017.

Consumer No.	Voltage Level	Sanctioned Connected load KW	Proposed AC capacity of Roof-top Solar PV System to be installed	Purpose
419996363253	415 Volt	40 KW	32 KW	Commercial

4) **VALIDITY**

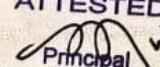
The validity of this sanction letter is for a period of six months from the date of issue.  
 You will have submit the work completion report, along with relevant details (such as technical specifications, test reports received from manufacturer / system provider, etc.), with a request to the Distribution Licensee for the testing and commissioning of the Roof-top Solar PV System within the period of validity.  
 MSEDCL reserves the right to revalidate the sanction subject to the conditions prevailing at the time of revalidation.

5) **VOLTAGE LEVEL**  
 The Net metering will be connected at 415 Voltage level.

3) **DOCUMENTS:**

AEE 110-3511 Dt- 30/10/17  
 AA  
 AE  
 (0)  
 HR

12-30-17  
 Addl. Ex. Engineer  
 Regent S/Dn

**ATTESTED**  
  
 Principal  
 Dhanwate National College,  
 Nagpur

You shall have to furnish the following documents in triplicate duly attested,  
iv) work completion report,

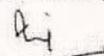
v) technical specifications, test reports of the Roof-top Solar Photo Voltaic Systems received from manufacturer / system provider

- 4) **METERING**  
i) The Net Meter in the premises of the Eligible Consumer shall be procured and installed by MSEDCL at its own cost and in accordance with the provisions of the Electricity Supply Code. The Eligible Consumer may opt to procure the Net Meter conforming to The standards specified By the CEA at his cost. The testing and installation will be done by the MSEDCL.  
ii) The Eligible Consumer shall install, at his own cost, a Solar Generation Meter Conforming to the applicable CEA Regulations at an appropriate location to measure the energy generated from the Roof-top Solar PV system, if he is an Obligated Entity and desires that such energy be counted towards meeting its RPO.  
vi) MSEDCL shall install, at its own cost and with the consent of the Eligible Consumer, Solar Generation Meter conforming to the applicable CEA Regulations at an appropriate location to measure the energy generated from the Roof-top Solar PV System if it desires that such energy be counted towards meeting its RPO.
- 5) **SPACE FOR EQUIPMENTS**  
The Net Meter and the Solar Generation Meter shall be installed at such locations in the premises of the Eligible Consumer as would enable easy access to the MSEDCL for meter reading.
- 6) **ENERGY ACCOUNTING & SETTLEMENT:**  
The energy accounting and billing shall be carried out as per MERC orders in the matter time to time.
- 7) **ARREARS**  
You will have to clear all the outstanding arrears, if any, prior to installation of net meter.
- 8) **NET METERING CONNECTION AGREEMENT:**  
The Eligible consumer shall execute a Net metering Connection Agreement on Stamp Paper of Rs.200 with MSEDCL as per Regulation No. 9 of MERC (Net Metering for Roof-top Solar Photo Voltaic Systems) Regulations, 2015
- 9) **ACCEPTANCE**  
Please arrange to submit your acceptance in writing for the above terms and conditions. On completion of the above formalities further action for net metering will be taken from our end. In case of any doubt/difficulty or clarification needed, may please contact this office on any Working day during working hours.

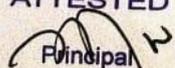
MSEDCL shall have the right to disconnect the Roof-top Solar PV System from its Network at any time in the event of any threat of accident or damage from such System to its distribution system so as to avoid any accident or damage to it. However, the Eligible Consumer may use his Roof-top Solar PV System in islanding mode for his own Consumption.

Thanking you,

Yours faithfully,

  
Executive Engineer  
CNDN, MSEDCL, Nagpur

C.s.w.r.to:- The Superintending Engineer (NUC), MSEDCL, Nagpur for Information  
Copy to: 1) The Exe Engineer Testing Dn. (U) MSEDCL, Nagpur for Information  
2) The Addl. Exe. Engineer, Regent S/Dn., MSEDCL, Nagpur for information.

ATTESTED  
  
Principal  
Dhanwate National College  
Nagpur

2. The approved time schedule for project completion is as per following table from the date of sanction.

Sr. No.	Capacity Sanction in kWp	Time Duration for completion of project
1	1 to 50	45 Days
2	Above 50 to 100	90 Days
3	Above 100 to 500	120 Days

3. MEDA empanelled channel partner has to submit the project completion report within time, failing to which the in-principle sanction letter given to this project stands cancelled.
4. MEDA empanelled channel partner has to follow all the guidelines and technical standards of given in the website for grid connected rooftop solar.
5. MEDA empanelled channel partner will give undertaking for 5 years CMC of the project.
6. Concerned MEDA Divisional Office will inspect the system after receipt of installation of system by MEDA empanelled channel partner.
7. MEDA will release the CFA that is Rs.18,300/- per kWp on the basis of L1 rate Rs.61,000/- per kWp (30% of L1 rate) or 30% of the project cost whichever is less.
8. Capacity of inverter must be same as per the capacity of solar power plant. The inverter must be as per IEC standard and system must be installed as per MNRE specifications only.

Sd/-  
I/c. General Manager (RE)

CC: - 1) Divisional General Manager  
2) Concerned Beneficiaries

Sr. No. 191, Phase II, MHADA Commercial Complex, 2nd Floor, Opp. Indal Nagar, Yerwade, Pune - 411 006.  
Tel No. 020-26614393/26614403 Fax No. 020-26616031 E-mail: meda@mahaaurja.com Web-site: http://www.mahaaurja.com

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Principal  
Dhanwate National College  
Nagpur

GCR1/2017/CR-1-B/Solar/1667

19<sup>th</sup> April, 2017

To  
M/s. Business Algorithms P Ltd.,  
39 Shankar Nagar, Nagpur-440010

Subject: - In-principle sanction for installation of Grid Connected Rooftop Projects  
in the State of Maharashtra.

Ref: - 1) MNRE 100MW sanction letter no. 03/106/2015/GCRT dated 26/04/2016  
2) Eol no.GCRT/CFA/2016-17/01

Dear Sir,

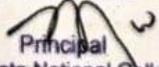
In accordance with Ministry of New and Renewable Energy sanction no. 03/106/2015/GCRT dated 26<sup>th</sup> April 2016 on the scheme of 100 MW Grid Connected Rooftop Projects in the state of Maharashtra and with above reference to proposal of MEDA empanelled channel partner, I am directed to convey the in-principle sanction for capacity of 40.96 kWp to the above mentioned MEDA empanelled channel partner for installing Grid Connected Rooftop System.

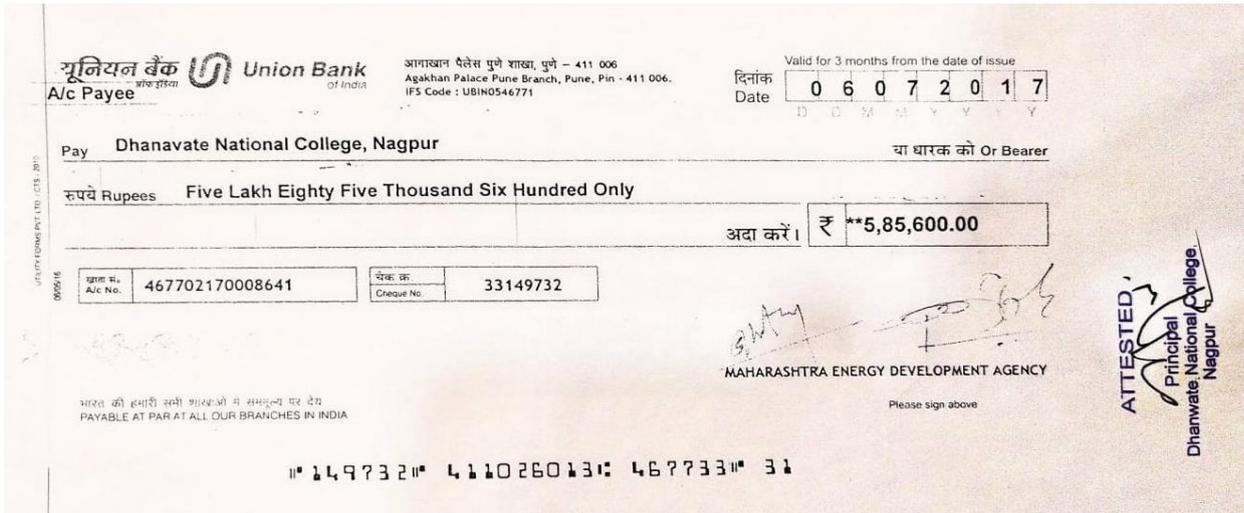
1. The details of the which is given as follows:-

Sr. No.	Name of Beneficiaries	Category of Beneficiary	Capacity Sanction in kWp	Eligible/Sanction CFA (Rs.)*
1	Dhanavate National College Congress Nagar Humpyard Road Nagpur	Institutional	40.96	7,49,565/-
Total :-				7,49,565/-

\*This sanction capacity eligible CFA is of 'tentative in nature' based on the information submitted by M/s. Business Algorithms P Ltd. Actual sanction capacity of project & eligible CFA will be finalized after Joint inspection of the system and actual work done. Also please note that if net meter is installed before the In-Principle sanction as per utility record, then the In-Principle sanction released by MEDA automatically stands cancelled.

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Dhanvate National College  
Nagpur



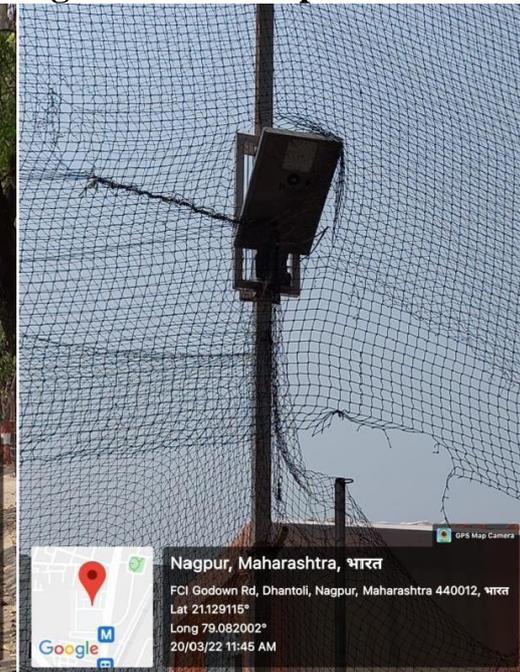
## Sensor Based Energy Conservation Our Institute has Established Water Pump Automatic Sensor



## Our Institute has Established Sensor Based Bell Alarm System



## Our Institute has Established Street Lights in the Campus



# Use of LED Bulbs



Safal hospital, opp. Dhanwate National College, Dhantoli, Nagpur, Maharashtra 440012, India

**Nagpur**  
**Maharashtra**  
**India**

2022-03-17(Thu) 13:14

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FCI Godown Rd, Dhantoli, Nagpur, Maharashtra 440012, India

**Nagpur**  
**Maharashtra**  
**India**

2022-03-17(Thu) 13:15

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104°F

Dr.K.D.Meghe  
IQAC, Coordinator

Dr.O.S.Deshmukh  
Principal  
Dhanwate National College, Nagpur

